



San Bernardino
Valley College

Catalog 2020-21





WELCOME TO THE 2020-2021 ACADEMIC YEAR AT SAN BERNARDINO VALLEY COLLEGE!

For over 94 years, SBVC has offered degrees and certificates in the liberal arts, science and technology, business, and the humanities. Our certificates cover many popular, in-demand professions, including nursing, geographic information systems (GIS) and water supply technology. At SBVC, we make it a point to stay in touch with our educational and business partners to make sure that we are offering programs that area employers look to for qualified graduates.

Inside this catalog, you will find descriptions of hundreds of courses, along with all of the details about financial aid, counseling, tutoring and all of the specialized student services for people with particular needs and requirements, including veterans and disabled students, as well as traditionally underrepresented student cohorts.

Our faculty and classified professionals reflect our community and combine academic preparation and a love of teaching to create a caring learning environment. Many of our professors and instructors have doctorate degrees and extensive industry experience, allowing them to pass on how to solve the real-world challenges you will face in your career. Our campus is comprised of many new and historic buildings for you to enjoy, with the latest being our brand-new Kinesiology & Athletics Complex and Stadium. Thank you for your interest in San Bernardino Valley College and for joining us during the 2020-2021 academic year. I look forward to seeing you on campus!

Sincerely,
Diana Z. Rodriguez
PRESIDENT

BIENVENIDOS AL CURSO ACADÉMICO 2020-2021 EN SAN BERNARDINO VALLEY COLLEGE!

Durante más de 93 años, SBVC ha ofrecido títulos en los áreas de artes y letras, ciencias y tecnología, negocios y las humanidades. Nuestros certificados cubren muchas profesiones populares en demanda incluyendo enfermería, técnica psiquiátrica, servicios de información geográfica (GIS) y tecnología de suministro de agua. En SBVC, nos esforzamos para estar en contacto con nuestros socios educativos y de negocios para asegurarnos de que ofrecemos programas que buscan los empleadores del área para los egresados calificados. Aquí, usted encontrará descripciones de cientos de cursos junto a todos los detalles sobre ayuda financiera, servicios de orientación académica, servicios de tutoría y todos los servicios estudiantiles especializados para gente con necesidades y requisitos particulares, incluyendo a los veteranos y estudiantes con incapacidades físicas, tanto como estudiantes no representados tradicionalmente. Nuestro personal y profesorado reflejan nuestra comunidad y combinan la preparación académica y el amor por la enseñanza para crear un ambiente de aprendizaje acogedor. Muchos de nuestros profesores tienen un título de doctorado y profunda experiencia industrial, que les permite pasar su sabiduría acerca de resolver los problemas del mundo real con los que se enfrentará en su carrera. Nuestro colegio tiene muchos edificios nuevos e históricos para que usted disfrute, y los más nuevos son el complejo atlético y el estadio. Le doy las gracias por su interés en San Bernardino Valley College y por estar con nosotros durante el año académico 2020-2021. ¡Espero verlos en el campus!

Sinceramente,
Diana Z. Rodriguez
PRESIDENTA

TABLE OF CONTENTS

Home	7	Prerequisites, Corequisites, and Departmental Advisories	20
College General	9	Repeated Courses	21
Accreditation	10	Non-Degree Applicable Courses	21
Campus Safety	10	Admissions and Registration	22
Institutional Learning Outcomes	10	Admission Regulations and Residency	22
San Bernardino Valley College Foundation	11	AB 540	22
Use of Image, Likeness or Voice Captured at Public Events	11	Admission Requirements	22
Academic Standards and Policies	12	Deferred Action for Childhood Arrivals (DACA)	22
Attendance	12	Discharged Members of the Armed Forces	22
Classification of Student Load	12	High School Students	22
Credit Hours (Units)	12	International Students	23
Alternative Sources of Credit	12	Non-Resident Veterans AB13	23
Credit by Examination	12	Out-of-State Students	23
Credit for Advanced Placement (AP) Examinations	13	Residence Requirements	23
Credit for Courses From Other College and Universities	14	Registration	24
Credit for DSST/DANTES (Defense Activity for Non-Traditional Education Support)	14	Late Registration	24
Credit for Military Service	15	Waitlist	24
Credit for the College Level Examination (CLEP) Program	15	Payment of Fees	24
Credit for the International Baccalaureate	16	Auditing Courses	24
Transfer of Credit	17	Adding a Class	25
Final Exams and Grades	17	Refunds	25
Final Examinations	17	Veterans	25
Final Grades and Transcripts	17	Enrollment and Orientation/Assessment Process	26
Incomplete Grades	18	AB 705	26
Grades and Grade Points	18	Applications Procedures	26
How to Calculate your GPA	18	Student Orientation Session	26
Pass/No Pass	18	Assessment Appointment	26
Probation and Dismissal	18	Policy on the Guided Self-Placement Process/Assessment	26
Academic Disqualification	19	Student Support Programs and Services	28
Academic Probation	19	Services for Students	28
Progress Probation	19	Financial Aid Programs	34
Readmission After Disqualification	19	Student Rights and Responsibilities	36
Academic Renewal	19	Student Success and Support Program (SSSP)	40
Non-Discrimination Policy	19	Academic Programs and Services	42
Open Enrollment Policy	20	Student Awards and Honors	42
Sexual Harassment Policy	20	Library	43
Academic Freedom	20	Middle College High School Program	43
Credit Courses	20	Online Education	43
Course Identification Numbering System (C-ID)	20	STEM Program	43
		Student Success Center	44
		Writing Center	44
		Zero Textbook Cost Degree Program (Z DEGREE)	44

General Education and Graduation Requirements	45	Art Associate of Arts Degree	86
Philosophy of General Education	45	Graphic Design Associate of Arts Degree	87
Graduation Catalog Rights	45	Graphic Design Certificate of Achievement	87
Associate Degree Graduation Requirements	45	Studio Arts Associate of Arts Transfer Degree	87
Vocational Certificate Programs	50	Web and Multimedia Design Certificate of Achievement	88
Transfer Information	50	Astronomy	89
Associate Degrees for Transfer	51	Astronomy Associate of Science Degree	89
California State University General Education - Breadth	52	Automotive Collision	89
Intersegmental General Education Transfer Curriculum (IGETC)	56	Advanced Automotive Collision Repair and Refinishing Associate of Science Degree	90
Degree and Certificate Program Index	61	Advanced Automotive Collision Repair and Refinishing Certificate of Achievement	91
Accounting	61	Automotive Interiors Certificate of Achievement	91
Accounting Associate of Arts Degree	62	Automotive Interiors Certificate of Completion	91
Accounting Certificate of Achievement	62	Basic Automotive Collision Repair and Refinishing Associate of Science Degree	92
Bookkeeping Certificate of Career Preparation	63	Basic Automotive Collision Repair and Refinishing Certificate of Achievement	92
Administration of Justice	63	Street Rod Construction Certificate of Achievement	92
Administration of Justice Associate of Arts Degree	64	Street Rod Construction Certificate of Completion	92
Administration of Justice Associate of Science Transfer Degree	65	Automotive Technology	93
Administration of Justice Certificate of Achievement	66	Automatic and Manual Transmission Associate of Science Degree	95
Aeronautics	66	Automatic and Manual Transmission Certificate of Achievement	96
Airframe Maintenance Technician Certificate of Achievement	70	Automotive Technician Associate of Science Degree	96
Aviation Maintenance Technician Associate of Science Degree	70	Automotive Technician Certificate of Achievement	97
Aviation Maintenance Technician Certificate of Achievement	71	Engine Performance Associate of Science Degree	97
Flight Operations and Management Associate of Science Degree	72	Engine Performance Certificate of Achievement	98
Flight Operations Certificate of Achievement	72	Preventative Maintenance Technician Certificate of Achievement	98
Powerplant Maintenance Technician Certificate of Achievement	73	Wheel Alignment and Brakes Associate of Science Degree	98
American Sign Language (ASL)	73	Wheel Alignment and Brakes Certificate of Achievement	99
Anthropology	74	Biology	99
Anthropology Associate of Arts Transfer Degree	75	Biology Associate of Science Degree	102
Arabic	76	Biology Associate of Science Transfer Degree	102
Architecture and Environmental Design	77	Business Administration	103
3D Modeling and Design Certificate of Achievement	79	Business Administration Associate of Arts Degree	106
Architecture and Environmental Design Associate of Science Degree	80	Business Administration Associate of Science Transfer Degree	106
Building Information and 3D Modeling Certificate of Achievement	80	Business Administration Certificate of Achievement	107
Building Information Management (BIM) Certificate of Achievement	81	Entrepreneurship - General Certificate of Achievement	107
Art	81	Entrepreneurship - Real Estate Certificate of Achievement	108
		Entrepreneurship - Tax Certificate of Achievement	108

Leadership Certificate of Achievement	108	Information Systems and Technology Associate of Science Degree	134
Retail Management Certificate of Achievement	109	iOS Application Security Support Specialist Certificate of Achievement	135
Chemistry	109	Medical Coding and Billing Certificate of Achievement	135
Chemistry Associate of Science Degree	111	Office Technology Fundamentals Certificate of Completion ...	135
Chemistry Associate of Science Transfer Degree	111	Web Application Security Support Specialist Certificate of Achievement	136
Child Development	112	Computer Science	136
Child Development - Associate Teacher Certificate of Achievement	116	Computer Science Associate of Science Degree	138
Child Development - Early Intervention and Inclusion Associate of Arts Degree	117	Computer Science Associate of Science Transfer Degree	138
Child Development - Early Intervention and Inclusion Certificate of Achievement	117	Computer Science Certificate of Achievement	139
Child Development - Family Child Care Provider Certificate of Achievement	118	Corrections	139
Child Development - Infant and Toddler Certificate of Achievement	118	Corrections Certificate of Achievement	140
Child Development - Master Teacher Certificate of Achievement	118	Criminal Justice	141
Child Development - School Age Certificate of Achievement ...	119	Modular Basic Peace Officer Certificate of Achievement	141
Child Development - Site Supervisor Certificate of Achievement	120	Culinary Arts	142
Child Development - Teacher Certificate of Achievement	121	Baking Business Certificate of Achievement	144
Child Development Associate of Arts Degree	122	Baking Certificate of Achievement	144
Early Childhood Education Associate of Science Transfer Degree	122	Culinary Arts Associate of Arts Degree	145
Chinese	123	Culinary Arts Certificate of Achievement	145
Communication Studies	123	Food Preparation Certificate of Achievement	146
Communication Studies Associate of Arts Transfer Degree ...	125	Food Service Certificate of Achievement	146
Computer Information Technology	125	Professional Baking and Management Associate of Arts Degree	146
Administrative Assistant Certificate of Achievement	130	Restaurant Service Certificate of Achievement	147
Android Application Security Support Specialist Certificate of Achievement	131	Dance	147
Cisco Certified Network Associate Certificate of Career Preparation	131	Economics	149
CIT - Management Information Systems Associate of Science Degree	131	Economics Associate of Arts Transfer Degree	150
CIT - Management Information Systems Certificate of Achievement	132	Electricity, Electronics, and Technical Calculations	151
CIT - Office Technology Associate of Arts Degree	132	Avionics Technology Associate of Science Degree	155
Computer Network Support Specialist Certificate of Achievement	133	Avionics Technology Certificate of Achievement	155
Computer Support Specialist Certificate of Achievement	133	Communication Engineering Technology Associate of Science Degree	156
Digital Forensics Certificate of Achievement	134	Communication Engineering Technology Certificate of Achievement	156
Information Security and Cyber Defense Certificate of Achievement	134	Computer Engineering Technology Associate of Science Degree	157
		Computer Engineering Technology Certificate of Achievement	157
		Electric Power Technology Associate of Science Degree	158
		Electric Power Technology Certificate of Achievement	158
		Electronics Technology Associate of Science Degree	159
		Electronics Technology Certificate of Achievement	160

General Electrician Certificate of Achievement	160	Heating, Ventilation, Air Conditioning and Refrigeration (HVAC/R)	189
Green Technician Certificate of Career Preparation	161	Heating, Ventilation, Air Conditioning and Refrigeration Associate of Science Degree	192
Industrial Automation Certificate of Achievement	161	Heating, Ventilation, Air Conditioning and Refrigeration Certificate of Achievement	192
Smart Systems Automation Technology Certificate of Completion	162	Refrigeration Service Engineer Society (HVAC) Certificate of Achievement	193
Zero Net Energy Certificate of Achievement	162	Heavy/Medium Duty Truck Technology	193
Engineering	162	Heavy-Medium Duty Truck Technology Certificate of Achievement	195
English	163	Heavy/Medium Duty Clean Vehicle Technology Certificate of Achievement	196
English Associate of Arts Transfer Degree	168	Heavy/Medium Duty Truck Engine and Fuel Injection Technology Certificate of Achievement	196
English as a Second Language (ESL)	169	Heavy/Medium Duty Truck Engine and Fuel Injection Technology Certificate of Completion	197
ESL Integrated Skills - Beginning Certificate of Completion	170	Heavy/Medium Duty Truck Technology Associate of Science Degree	197
Environmental Science	171	History	197
Environmental Science Associate of Science Degree	171	Human Services	199
Environmental Science Associate of Science Transfer Degree	172	Addiction Studies Certificate of Achievement	203
Film, Television, and Media	173	Career Specialist Certificate of Achievement	203
Film Associate of Arts Degree	175	Case Management in the Public Sector Certificate of Achievement	204
Film, Television, and Electronic Media Associate of Science Transfer Degree	175	Human Services Associate of Arts Degree	204
Media Development Certificate of Achievement	176	Human Services Certificate of Achievement	205
Media Production Associate of Arts Degree	176	Inspection Technology	205
Post-Production Certificate of Achievement	177	Inspection Technology Associate of Science Degree	207
Production Certificate of Achievement	177	Inspection Technology Certificate of Achievement	208
Social Media Field Production Certificate of Achievement	177	Inspection Technology Certificate of Completion	208
Social Media Narrative Production Certificate of Achievement	178	Kinesiology and Health	209
Social Media Studio Production Certificate of Achievement ...	178	Kinesiology Associate of Arts Degree	219
Television Associate of Arts Degree	178	Kinesiology Associate of Arts Transfer Degree	221
Foods and Nutrition	178	Learning Skills and Tutoring	222
Dietetic Aide Certificate of Achievement	179	Liberal Arts	222
Dietetic Service Supervisor Certificate of Achievement	179	Liberal Arts - Biological and Physical Sciences Associate of Arts Degree	223
Nutrition and Dietetics Associate of Science Transfer Degree	180	Liberal Arts - Humanities and Fine Arts Associate of Arts Degree	224
French	180	Liberal Arts - Social and Behavioral Sciences Associate of Arts Degree	226
Geographic Information Systems (GIS)	181	Library Technology	227
Geographic Information Systems Certificate of Achievement	182	Library Technology Associate of Arts Degree	228
Geography	183	Library Technology Certificate of Achievement	228
Geography Associate of Arts Transfer Degree	185	Machinist Technology	229
Geography Associate of Science Degree	186		
Geology	186		
Geology Associate of Science Degree	188		
Geology Associate of Science Transfer Degree	189		

Basic Machine Operator Certificate of Career Preparation	233	Real Estate Associate of Arts Degree	275
Basic Operation Computerized Numerical Control (CNC) Certificate of Achievement	233	Real Estate Certificate of Achievement	275
Computer Numerical Control - CAD & CAM Associate of Science Degree	233	Sociology	276
Computer Numerical Control - CAD & CAM Certificate of Achievement	234	Sociology Associate of Arts Transfer Degree	277
Industrial Maintenance Certificate of Achievement	234	Spanish	278
Machine Technology Certificate of Achievement	235	Spanish Associate of Arts Transfer Degree	279
Machinist Standard Associate of Science Degree	235	Student Development	280
Machinist Standard Certificate of Achievement	235	Theatre Arts	281
Tool & Die Associate of Science Degree	236	Design and Technical Theatre Certificate of Achievement	283
Tool & Die Certificate of Achievement	236	Theatre Arts Associate of Arts Transfer Degree	283
Mathematics	236	Vocational Education	284
Mathematics Associate of Science Transfer Degree	239	Job Readiness Skills Certificate of Completion	284
Music	240	Workforce Literacy Skills Certificate of Completion	285
Music Associate of Arts Degree	245	Water Supply Technology	285
Music Associate of Arts Transfer Degree	246	Basic Waterworks Certificate of Completion	288
Nursing	247	Wastewater Technology Certificate of Completion	289
Nursing Associate of Science Degree	251	Water Supply Technology Certificate of Achievement	289
Occupational Safety and Health Act (OSHA)	252	Water Technology Associate of Science Degree	290
Oceanography	252	Water Use Specialist Certificate of Completion	290
Pharmacy Technology	253	Welding Technology	291
Pharmacy Technology Associate of Science Degree	254	Flux Cored Arc Welding (FCAW) Certificate of Achievement ...	294
Pharmacy Technology Certificate of Achievement	255	Gas Metal Arc Welding (GMAW) Certificate of Achievement ...	294
Philosophy/Religious Studies	255	Gas Tungsten Arc Welding (GTAW) Certificate of Achievement	294
Philosophy Associate of Arts Transfer Degree	257	Pipe Welding Certificate of Achievement	295
Phlebotomy	258	Shielded Metal Arc Welding (SMAW) Certificate of Achievement	295
Phlebotomy Certificate of Completion	259	Welding Inspection Technology Certificate of Achievement ...	295
Physics	259	Welding Job Readiness Certificate of Completion	296
Physics Associate of Science Degree	260	Welding Technology Associate of Science Degree	296
Physics Associate of Science Transfer Degree	261	Welding Technology Certificate of Achievement	297
Police Science	261	Work Experience	297
Basic Peace Officer Certificate of Achievement	265	Administration and Faculty	299
Political Science	265	Administration	299
Political Science Associate of Arts Transfer Degree	267	Administrative Emeriti	300
Psychiatric Technology	268	Faculty	300
Psychiatric Technology Associate of Science Degree	269	Faculty / Professor Emeriti	308
Psychiatric Technology Certificate of Achievement	270	Courses A-Z	310
Psychology	270	Accounting (ACCT)	311
Psychology Associate of Arts Transfer Degree	272	Administration of Justice (ADJUS)	311
Reading and Study Skills	273	Aeronautics (AERO)	312
Real Estate	273	American Sign Language (ASL)	316

Anthropology (ANTHRO)	316	Kinesiology (Team) (KINS)	385
Arabic (ARAB)	318	Library Technology (LIB)	387
Architecture (ARCH)	318	Machinist Technology (MACH)	388
Art (ART)	320	Mathematics (MATH)	391
Astronomy (ASTRON)	325	Music (MUS)	393
Automotive Interiors (AUTOIN)	325	Nursing (NURS)	399
Automotive Technology (AUTO)	325	Oceanography (OCEAN)	402
Biology (BIOL)	328	OSHA (OSHA)	402
Business Administration (BUSAD)	330	Pharmacy Technology (PHT)	403
Chemistry (CHEM)	332	Philosophy (PHIL)	404
Child Development (CD)	333	Physics (PHYSIC)	404
Communication Studies (COMMST)	337	Police Science (POLICE)	405
Computer Information Technology (CIT)	338	Political Science (POLIT)	409
Computer Science (CS)	343	Psychiatric Technology (PSYTCH)	410
Corrections (CORREC)	345	Psychology (PSYCH)	411
Criminal Justice (CRMJUS)	345	Reading and Study Skills (READ)	412
Culinary Arts (CULART)	346	Real Estate (REALST)	413
Dance (DANCE)	348	Religious Studies (RELIG)	414
Economics (ECON)	349	Sociology (SOC)	415
Electricity (ELEC)	350	Spanish (SPAN)	416
Electronics (ELECTR)	351	Street Rod (AUTOST)	417
Engineering (ENGR)	353	Student Development (SDEV)	417
English (ENGL)	353	Technical Calculations (TECALC)	418
English As a Second Language (ESL)	358	Theatre Arts (THART)	418
Environmental Science (ENVT)	359	Vehicle Restoration (AUTORS)	420
Film, Television, and Media (FTVM)	359	Vocational Education (VOCED)	420
Foods and Nutrition (FN)	361	Water Supply Technology (WST)	420
French (FRENCH)	362	Welding Technology (WELD)	424
Geographic Information Systems (GIS)	362	Work Experience (WKEXP)	427
Geography (GEOG)	363	Catalog Contents	428
Geology (GEOL)	365	Academic Calendar	434
Health Education (HEALTH)	366	Campus Map	435
Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R)	367	Index	436
Heavy/Medium Duty Truck (HMDT)	369		
History (HIST)	371		
Human Services (HUMSV)	372		
Inspection Technology (INSPEC)	375		
Kinesiology (Adapted) (KINA)	377		
Kinesiology (Athletics) (KINX)	378		
Kinesiology (Fitness) (KINF)	381		
Kinesiology (KIN)	384		

San Bernardino Valley College Catalog 2020-2021

A Public Community College in California

A College of the San Bernardino Community College District

701 South Mount Vernon Avenue
San Bernardino, California 92410

(909) 384-4400 • www.valleycollege.edu (<http://www.valleycollege.edu>)

San Bernardino Valley College maintains a culture of continuous improvement and a commitment to provide high-quality education, innovative instruction, and services to a diverse community of learners. Its mission is to prepare students for transfer to four-year universities, to enter the workforce by earning applied degrees and certificates, to foster economic growth and global competitiveness through workforce development, and to improve the quality of life in the Inland Empire and beyond.

SBVC is an equal opportunity institution. Courses and programs are provided for all residents regardless of race, color, religion, sexual orientation or physical disabilities. This publication is available in alternate formats (Braille, large print, e-text) for qualified persons with disabilities. For information call (909) 384-4443 or visit our website (<https://www.valleycollege.edu/student-services/specialized-counseling-services/disability-services/>).

Accuracy Statement – *The San Bernardino Community College District has made every effort to publish an accurate college catalog, but may without notice, change general information, courses, or programs offered. The reasons for change may include student enrollment, level of funding, or other issues decided by the district or college. The district and college also reserve the right to add to, change, or cancel any rules, regulations, policies and procedures as provided by law. Please visit the San Bernardino Valley College website (<http://catalog.valleycollege.edu/www.valleycollege.edu>) for the most up-to-date and accurate information.*

Board of Trustees

Name	Title
Dr. Anne L. Viricel	Chair
Dr. Stephanie Houston	Vice Chair
Gloria Macías Harrison, M.A.	Clerk
John Longville	Member
Frank Reyes, M.A.	Member
Dr. Donald L. Singer	Member
Joseph Williams, M.A.	Member
Alex Ramos Huaman	CHC Student Trustee
Adrian Rios	SBVC Student Trustee

District Administration

Name	Title
Jose F. Torres, M.P.A.	Interim Chancellor
Jose F. Torres, M.P.A.	Executive Vice Chancellor
Kristina Hannon, M.A.	Vice Chancellor, Human Resources and Police Services
Angel Rodriguez, B.A.	Senior District Director of Marketing, Public Relations, and Governmental Affairs

San Bernardino Valley College Administration

Name	Title
Diana Z. Rodriguez, M.B.A.	President
Dina Humble, Ed.D.	Vice President, Instruction
Scott Stark, B.S.	Vice President, Administrative Services
James Smith, Ph.D.	Dean, Research, Planning and Institutional Effectiveness
Scott Thayer, Ed.D.	Vice President, Student Services
Paul Bratulin, B.A.	Campus Director, Marketing, Creative Services, and Public Affairs
Larry W. Brunson, Jr. M.S.	Director, Disabled Students Programs and Services
Raymond Carlos, Ed.D.	Director, Student Life
Marco Cota, M.A.	Dean, Counseling and Matriculation
April Dale-Carter, M.B.A.	Director, Admissions and Records
Paul Dennis, M.A.	Director, Police Academy
Emma Diaz, Ed.D.	Director, Adult Education Block Grant (Inland Adult Education Consortium)
Ron Hastings, M.L.S.	Director, Library and Learning Support Services
Leticia Hector, M.A.	Interim Dean, Arts and Humanities
Joanne Hinojosa, M.S.W.	Director, EOPS/CARE
Rick Hrdlicka, M.A.	Director, Campus Technology Services
Robert Jenkins, M.P.A.	Director, Facilities, Maintenance and Operations
Wallace Johnson, Ed.D.	Dean, Social Sciences, Human Development and Physical Education
Dmitriy Kalantarov, Ph.D.	Dean, Science
Michael Layne, M.A.	Interim Director, SBVC Foundation
Stephanie Lewis, Ph.D.	Dean, Mathematics, Business and Computer Information Technology
Sana Massad, M.S.	Interim Associate Dean of Health Sciences and Nursing Director
Mark Merjil, M.A.	Director, Child Development Center
Joanna Oxendine, M.Ed.	Interim Director, Grant Development and Administration
Patricia Quach, M.Ed.	Dean, Academic Success and Learning Services
Patricia Quach, M.Ed.	Interim Dean, Applied Technology, Transportation and Culinary Arts
Maria Del Carmen Rodriguez, M.A.	Dean, Student Equity and Success
David Rubio, M.A.	Director, Athletics
Samuel Trejo, B.A.	Director, Financial Aid
Sharaf Williams, M.Ed.	Director, First Year Experience

Acknowledgments

Our special thanks to the following for their contributions to this catalog:

Dina Humble, Ed.D. - Vice President, Instruction

Paul Bratulin, B.A. - Director, Marketing and Public Relations

Mary Copeland, M.A. - Co-Chair, Curriculum Committee

Janice Wilkins, M.S. - Articulation Officer/Counselor

Kay Dee Yarbrough, M.A. - Administrative Curriculum Coordinator

COLLEGE GENERAL

The College

Welcome to San Bernardino Valley College! (http://catalog.valleycollege.edu/college-general/catalog_IFC_digital.pdf)

San Bernardino Valley College is a comprehensive community college that serves the residents of the Inland Empire. The college is one of 115 locally governed California Community Colleges, and as such, is regulated by the California Education Code and is subject to the directions of the California Legislature and the California Community College Board of Governors. The college is responsible to its local constituency through an elected Board of Trustees, which is the primary policy-making body for the college. Students of the college are drawn, for the most part, from the local community. In addition, specific programs at the college attract students from throughout the state and world. Students range in age from under 18 to over 80 years, and reflect the ethnic and cultural diversity of the region.

History

San Bernardino Valley College was established in 1926, and originally served only the San Bernardino and Colton Unified School Districts. The population served has now expanded to include communities throughout the Inland Empire. Over the years, the original four-building campus has grown to one of 43 buildings grouped around a central, park-like open space, giving easy access to the numerous special purpose classrooms, lecture halls, laboratories, studios, shops and practice rooms. A faculty of 16 has grown to a teaching staff of more than 180 full-time and 480 adjunct faculty, and student body of 140 has grown to over 17,000. San Bernardino Valley College is proud of its long tradition of service to our community, and the faculty and staff is gratified to know they have played an important part in improving the lives of so many.

Mission Statement

San Bernardino Valley College maintains a culture of continuous improvement and a commitment to provide high-quality education, innovative instruction, and services to a diverse community of learners. Its mission is to prepare students for transfer to four-year universities, to enter the workforce by earning applied degrees and certificates, to foster economic growth and global competitiveness through workforce development, and to improve the quality of life in the Inland Empire and beyond.

Vision Statement

The vision statement represents the collective sense of the direction the faculty, staff and administration would like to see the college move over the next decade. The district's Board of Trustees adopted the vision statement on June 13, 2002. The vision statement was reaffirmed by the college in October 2012:

San Bernardino Valley College will become the college of choice for students in the Inland Empire, and will be regarded as the "alma mater" of successful, lifelong learners. We will build our reputation on the quality of our programs and services and on the safety, comfort, and beauty of our campus. We will hold both our students and ourselves to high standards of achievement, and will expect all members of the college community to function as informed, responsible, and active members of society.

Educational Philosophy

The college *Values* describe the philosophy and values of San Bernardino Valley College's faculty, staff, and administration:

We believe that:

- A well-educated populace is essential to the general welfare of the community.
- A quality education empowers the student to think critically, to communicate clearly, and to grow personally and professionally.
- An enriched learning environment promotes creativity, self-expression, and the development of critical thinking skills.
- Our strength as an institution is enhanced by the cultural diversity of our student population and staff.
- We must provide students with access to the resources, services, and technological tools that will enable them to achieve their educational goals.
- We can measure our success by the degree to which our students become self-sufficient learners and contributing members of society.
- Plans and decisions must be data driven, and based on informed consideration of what will best serve students and the community.
- We must model our commitment to lifelong learning by maintaining currency in our professions and subject disciplines.
- As part of the collegial process, all levels of the college organization must openly engage in sharing ideas and suggestions to develop innovative ways to improve our programs and services.
- Interactions between all members of the college community must be marked by professionalism, intellectual openness, and mutual respect.
- We must hold ourselves and our students to the highest ethical and intellectual standards.
- We must maintain a current, meaningful and challenging curriculum.
- Students succeed best when following an education plan and enrolled in classes that meet their interests and goals and match their level of academic preparedness.
- All members of our campus community are entitled to learn and work in an environment that is free from physical, verbal, sexual, and/or emotional threat or harassment.
- Institutional effectiveness must be verified annually by using empirical data as demonstrated through each standing committee in the collegial consultation process.
- Students learn best on a campus that is student-centered and aesthetically pleasing.
- We must be responsible stewards of campus resources.

Strategic Initiatives

San Bernardino Valley College's Institutional Guiding Principle: *We are committed to quality and excellence in all of our efforts.*

Our Strategic Initiatives are as follows:

- Increase Access
- Promote Student Success
- Improve Communication, Culture, and Climate
- Maintain Leadership and Promote Professional Development
- Effective Evaluation and Accountability
- Provide Exceptional Facilities

Accreditation

San Bernardino Valley College is fully accredited by the following agencies:

Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges

10 Commercial Boulevard, Suite 204
Novato, CA 94949
(415) 506-0234

Aeronautics

Federal Aviation Administration (FAA) FAR Part 147

U.S. Department of Transportation - Federal Aviation Administration
800 Independence Avenue, SW
Washington, DC 20591
(866) 835-5322

General Electrician

California State Department of Industrial Relations - Electrical Programs

Department of Industrial Relations
Division of Labor Standards Enforcement - Electrician Certification Unit
P.O. Box 920603
San Francisco, CA 94142-0603
(510) 286-3900

Human Services

California Association for Drug/Alcohol Educators (CAADE)

5230 Clark Avenue
Lakewood, CA 90712
(707) 722-2331

Nursing

Accreditation Commission for Education in Nursing (ACEN)

3343 Peachtree Road NE, Suite 850
Atlanta, GA 30326
(404) 975-5000

California Board of Registered Nursing

P.O. Box 944210
Sacramento, CA 95814
(916) 322-3350

Pharmacy Technology

American Society of Health System Pharmacists (ASHP)

4500 East-West Highway, Suite 900
Bethesda, MD 20814
(866) 279-0681

Police Academy

California Commission on Peace Officers Standards and Training

860 Stillwater Road, Suite 100
West Sacramento, CA 95605
(916) 227-3909

Psychiatric Technology

Board of Vocational Nursing and Psychiatric Technicians (BVNPT)

2535 Capitol Oaks Drive, Suite 205
Sacramento, CA 95833
(916) 263-7800

Campus Safety

To Report A Life-Threatening Emergency, Call 911

Campus Safety Mission Statement

The San Bernardino Community College District Police, in concert with the Board of Trustees, is committed to providing a safe and secure learning and working environment for all students and employees. This will be accomplished through a cooperative and coordinated effort involving all departments and the San Bernardino Community College District employees, law enforcement agencies and community.

It is a policy of the Board of Trustees for the San Bernardino Community College District to protect members of the entire college community and the property of the District. In accordance with this policy, the District maintains a Police Department 24 hours a day, 7 days a week. The officers are sworn and duly Commissioned Police Officers of the State of California as defined in section 830.32 of the Penal Code and 72330 of the California Education Code and authority extends to anywhere within the state.

For Non-Emergencies

Contact the San Bernardino Community College District Police Department Office at (909) 384-4491. Our business office is located in the Campus Center Building, Room 100. Call this number to locate and/or turn in lost articles or to relay concerns for personal safety along with parking rules and regulations. Be aware that when the office is closed on nights and weekends the San Bernardino County Sheriff will dispatch for the District Police Department.

In 1990, the U.S. Congress enacted the 'Crime Awareness and Campus Security Act of 1990', which requires colleges and universities to disclose information about crime on and around their campuses. This law was renamed in 1992 to the 'Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act'. The San Bernardino Community College District provides this information in the Annual Security Report that is available to all campus community members and the public. This report provides statistical, policy, and procedural information required by the Clery Act. The full text of this report can be accessed from our website at: <http://sbccd.org/police> (<http://sbccd.org/police/>) or <http://valleycollege.edu/asr2012> (<http://valleycollege.edu/asr2012/>)

In addition to being available at various offices on campus or at the police office in Campus Center room 100. For prevention and survival tips on active shooter situations, sexual assault, personal safety, and thefts, go to <http://sbccd.org/police> (<http://sbccd.org/police/>). View past presentations, schedule a presentation for your class or department meeting, access local and state websites for additional resources, and print/download numerous safety resources. Students may also view the Campus Information and Safety Awareness Orientation presentation by going to: <http://sbccd.org/orientationSBVC> (<http://sbccd.org/orientationSBVC/>)

Referral Resources on Campus

Student Health Services: (909) 384-4495
Student Assistance Program: (909) 384-4474
Counseling: (909) 384-4404

Institutional Learning Outcomes

The five (5) Institutional Learning Outcomes listed below describe the skills and abilities the student should be able to demonstrate after

completing the requirements for an Associate Degree at San Bernardino Valley College. These Institutional Learning Outcomes are embedded in our established pattern of general education courses, in our more advanced major-preparation courses, and in the student service learning experiences we provide over the span of a student's enrollment at the college. In addition, assignments that lead to the acquisition of these core skill sets are embedded in the coursework required for vocational certificates. The Institutional Learning Outcomes are:

1. Communication Skills

Literacy: Reading, listening, observing, speaking, and writing.

Interpersonal Skills: Working with individuals and groups, including conflict resolution and giving/receiving constructive feedback.

2. Quantitative Skills

Mathematical Theory: Understanding mathematical concepts and structures.

Applied Mathematics: Applying mathematical skills and numerical data to analyze and solve real world problems.

Mathematical Visualization: Using graphs, charts, and tables.

3. Critical Thinking Skills

Information Literacy: Finding, interpreting, and evaluating information in print, electronic, and non-electronic media sources.

Logical Reasoning: Constructing, supporting, analyzing, and evaluating arguments.

Problem Solving: Using evidence-based reasoning to articulate a problem and propose hypotheses or solutions.

Creativity: Using creative reasoning for problem solving and personal and social expression.

4. Discipline Specific Skills

Discipline Theory: Understanding and employing discipline vocabulary, ideas, theories, standards, and ethics.

Discipline Technology: Using tools, computers, instruments, and equipment relevant to discipline.

Discipline Performance: Working in labs, workshops, clinics, performances, and work experience relevant to discipline.

5. Personal, Social, Professional Responsibility

Self-Knowledge: Understanding and evaluating personal strengths, weaknesses, biases, and values.

Goal Setting: Setting goals that are realistic and balance educational, professional, and personal life.

Cultural Awareness: Understanding and respecting one's own culture, other cultures, and diversity.

Ethics: Understanding and practicing ethics, intellectual honesty, fairness, and personal responsibility.

For additional information on SBVC's outcomes, including a link to the Course Outline of Record, please visit the SBVC Outcomes webpage (<https://www.valleycollege.edu/about-sbvc/campus-committees/outcomes/>).

San Bernardino Valley College Foundation

In 1973, the San Bernardino Valley College Foundation (SBVC Foundation) was founded on the belief that college strengthens the individual and the community. The SBVC Foundation is an independent, nonprofit, 509(a) (3) organization whose purpose is to raise and administer funds for the benefit of San Bernardino Valley College.

As students earn degrees and certificates, together the San Bernardino Valley College Foundation and San Bernardino Valley College foster

economic growth and improve quality of life in the Inland Empire and beyond.

Mission

The San Bernardino Valley College Foundation is a fundraising organization committed to the stewardship of assets and the development of relations to advance the vision of San Bernardino Valley College.

Board of Directors

Name	Title
Dr. Dennis Byas	President
Beverly Powell	Vice President
Scott Stark	Treasurer
Diana Z. Rodriguez	Secretary
Susan Bangasser	
John Echevarria	
Robert Garcia, Jr.	
Gary Kelly	
Dr. Kenneth Lane	
Sam Lucia	
Justin Martinez	
Kerry Neal	
Patricia Nickols-Butler	
Faye Pointer	
Allynn Scott	
Michael Sola	
Ed Szumski	
Dexter Thomas	
Bea Valdez	
Dr. Anne Viricel	

Use of Image, Likeness or Voice Captured at Public Events

The various sites of the San Bernardino Community College District (including San Bernardino Valley College) often host events that are open to the public such as, but not limited to, graduation, athletic competitions, job fairs, speakers, and various activities held on campus or district property. Those events are considered news events. Such an event may be photographed, videotaped or webcast for purposes of archiving the event, educational use, or publicity. Students, staff, faculty and the public who attend those events may have their image or voice captured on video, webcast or photograph(s). Due to the nature of these events, the San Bernardino Community College District, and its various sites, has no means by which to prevent such photographs, videotaping or webcastings from including a specific attendee's image or voice. By attending the event, such person is granting the site and the SBCCD the right to use any such still or motion images or voice recordings in future publicity or publications, including web postings as needed and without compensation. No release shall be required by the SBCCD or its sites to utilize in an appropriate manner any images captured during a public event, even if the subject is a minor.

For additional information, please contact the Director of Marketing and Public Relations at (909) 384-8978 or by email at pbratulin@valleycollege.edu.

ACADEMIC STANDARDS AND POLICIES

- Attendance (p. 12)
- Classification of Student Load (p. 12)
- Alternative Sources of Credit (p. 12)
- Final Exams and Grades (p. 17)
- Grades and Grade Points (p. 18)
- Pass/No Pass (p. 18)
- Probation and Dismissal (p. 18)
- Academic Renewal (p. 19)
- Non-Discrimination Policy (p. 19)
- Open Enrollment Policy (p. 20)
- Sexual Harassment Policy (p. 20)
- Academic Freedom (p. 20)
- Credit Courses (p. 20)
- Non-Degree Applicable Courses (p. 21)

Attendance

All students are expected to attend classes regularly. Each instructor will inform students at the beginning of each term exactly what is to be expected regarding attendance in class, and the instructor's decision is final. In the event an absence is unavoidable, students are responsible for notifying instructors.

A student's failure to attend class meeting(s) during the first week of a term may result in the student being dropped from the class. After the first week of classes during any term, an instructor may drop a student from any class in which the student has:

- Violated the instructor's stated attendance requirements;
- Accrued more than two absences per unit; or,
- Attended so irregularly that the instructor feels it is unwise for the student to continue.

Instructors may not drop students after the 11th week of instruction (for full semester classes) or after 60 percent of instruction (for short-term classes).

Class Attendance

Students who are not in attendance at the first class meeting are considered "no-shows." Instructors may choose to drop no-shows in order to give their seats to non-registered students seeking entrance to the course. In this case, students are still responsible for the student fees.

Withdrawal from Classes

If a student stops attending class, it is their responsibility to officially drop the class. A student who wishes to drop one or more classes but continue enrollment in other classes should drop the course online prior to the end of the second week (or 20% of a term, whichever is sooner). No entry will be made on the student's record for dropping a class prior to the 20% deadline. A student who withdraws or is dropped from a course before 60% of the class has been completed will not receive a letter grade. Instead, a W (Withdrawal) will be recorded on the student's transcript. This symbol carries no evaluation of the student's work, but is a clerical notation that the student was enrolled in the course and withdrew or dropped without

grade or unit credit. W's are used in probation and dismissal procedures as well as in determining satisfactory academic progress for financial aid. Students will receive a letter grade if they continue any course after 60 percent of a class has been completed. Student may receive no more than three (3) "W" grades for any one course (Title 5, section 55024). A student activated for military service may receive a military withdrawal (MW) at any time during the semester. Military withdrawals will not factor into progress probation and disqualification. Students who are members of the military (active or reserve) or National Guard should present their military orders to Admissions and Records in order to have the MW assigned.

Classification of Student Load

Students are defined as full-time when enrolled in 12 or more units in either the Fall or Spring semesters. A part-time student is one who is enrolled in fewer than 12 units in either the Fall or Spring semesters. During the summer session, a full-time student is enrolled in 6 or more units and a part-time student is enrolled in fewer than 6 units. (Please note that for financial aid purposes, 12 units is considered full-time during the summer session, as well). An overload of units requires a counselor's signature for registration. Overloads are considered to be anything over 18 units for the Fall or Spring semesters and anything over 8 units for the Summer term.

Credit Hours (Units)

One credit is awarded for each 16-18 lecture hours of instruction, or for 48-54 laboratory hours, or for appropriate combinations of lecture and laboratory hours. For each one hour of lecture, students are expected to fulfill at least two hours of work outside of class in reading, preparing assignments or other activities related to the course.

Class hours are defined as 50 minutes. Classes scheduled for more than an hour follow formulas to stay close to this definition. For example, a class schedule from 6:00 to 7:30 p.m. (90 minutes) actually meets for 80 minutes, allowing for a 10-minute passing period. Longer class meeting patterns have required breaks. San Bernardino Valley College follows these time patterns.

Alternative Sources of Credit

- Credit by Examination (p. 12)
- Credit for Advanced Placement (AP) Examinations (p. 13)
- Credit for Courses From Other College and Universities (p. 14)
- Credit for DSST/DANTES (Defense Activity for Non-Traditional Education Support) (p. 14)
- Credit for Military Service (p. 15)
- Credit for the College Level Examination (CLEP) Program (p. 15)
- Credit for the International Baccalaureate (p. 16)
- Transfer of Credit (p. 17)

Credit by Examination

Students who feel that their knowledge of a subject is equivalent to the content of a course offered by the college may apply for credit-by-examination. To do so, the following conditions must exist:

- The student must submit evidence of extensive background and/or experience in the subject to the instructor of the course;
- The student must have completed twelve (12) or more units at San Bernardino Valley College or be a permanent employee of the San Bernardino Community College District;

- The student must be enrolled in the college during the semester in which he/she takes the examination;
- In accordance with Board Policy 4235, credit-by-examination for Modern Language courses may be granted only to students who take the next higher language course while attending San Bernardino Valley College, and only with the approval of the Modern Languages Faculty Chair.

An application for Credit-By-Examination is available in the Admissions and Records Office (AD/SS 100). In addition to paying an enrollment fee based on the number of units in the course that is being challenged, there is an additional \$20 processing fee, which is applied to all credit-by-examination applications. (Note: all students, including those with the Board of Governor fee waivers, must pay the processing fee and enrollment fee based on units when applying for credit-by-examination.)

Once the application has been approved by the administrator and the necessary fees have been paid, the instructor may administer the examination and submit the grade earned. Grades will be consistent with the grading systems established by the college and will be submitted by the Division to the Admissions and Records Office by the end of the semester in which the examination is completed. The student's transcript will contain a notation that indicates that the credit was earned by examination. Any grades earned through credit-by-examination will not be counted in determining the twelve (12) semester units of credit in residence required for graduation from the college. Upon completion, a notification will be sent to your Valley College email. Financial aid is not available for credit by examination.

Credit for Advanced Placement (AP) Examinations

Students who have completed Advanced Placement (AP) examinations of the College Entrance Examination Board with scores of 3, 4, or 5 may receive credit at San Bernardino Valley College as indicated in the table below (in accordance to Assembly Bill (AB) 1985). A grade of pass (P) will be assigned on the transcript. Credit awarded through advanced placement may be used to satisfy graduation requirements toward the associate degree, IGETC and CSU General Education-Breadth requirements. Transfer universities re-evaluate AP. The units earned from AP credit will not apply toward financial aid nor can they be used to satisfy the 12-unit residence requirement for graduation. Students must be enrolled at San Bernardino Valley College to receive credit for Advanced Placement Exams. To request credit for AP examinations, visit the Admissions and Records Office, AD/SS 100 (909) 384-4401.

Advanced Placement Exam with Score of 3, 4, or 5	SBVC Units	SBVC Waiver Course	SBVC General Education Graduation Credit	CSU General Education Credit	IGETC Credit
Art History	3	No equivalent	Category III, 1 course	Area C1 or C2	Area 3A or 3B
Art: Studio 2D Design	3	ART 120	Category III, Applied, 1 course	None	None
Art: Studio 3D Design	3	ART 121	Category III, Applied, 1 course	None	None

Art: Studio Drawing	3	ART 124A	Category III, Applied, 1 course	None	None
Biology	4	BIOL 100	Category I, 1 course	Areas B2, B3	Area 5B with lab
Chinese Language and Culture	3	No equivalent	Category III, 1 course	Area C2	Areas 3B, 6A
Chemistry	4	CHEM 150	Category I, 1 course	Areas B1, B3	Area 5A with lab
Computer Science A	3	(CS 110 + CS 120 or CS 190)	None	None	None
Computer Science Principles	3	CS 190	Category IV, 1 course	Area B4	None
Economics: Macroeconom	3	ECON 200 or 200H	Category II, 1 course	Area D2	Area 4B
Economics: Microeconomics	3	ECON 201 or 201H	Category II, 1 course	Area D2	Area 4B
English: Language & Composition	3	ENGL 101 or 101H	Category IV, 1 course	Area A2	Area 1A
English: Literature & Composition	6	(ENGL 101 or 101H) + ENGL 151	Category III and Category IV	Areas A2, C2	Area 1A or 3B
Environmental Science	4	BIOL 104	Category I, 1 course	Area B1, B3	Area 5A with lab
French Language and Culture	3	Score 3, 4 or 5 = FRENCH 102	Category III, 1 course	Area C2	Areas 3B, 6A
German Language and Culture	3	No equivalent	Category III, 1 course	Area C2	Areas 3B, 6A
Government and Politics: Comparative	3	No equivalent	Category II, 1 course	Area D8	Area 4H
Government and Politics: US	3	No equivalent	Category II, 1 course	Area D8 + US-2	Area 4H and US-2
History: European	3	No equivalent	Category II or III, 1 course	Area C2 or D6	Area 3B or 4F
History: U.S.	3	HIST 100 or 100H or 101 or 101H	Category II or III, 1 course	Area (C2 or D6) + US-1	Area (3B or 4F) + US-1
History: World-Modern	3	HIST 171	Category II or III, 1 course	Area C2 or D6	Area 3B or 4F
Human Geography	3	No equivalent	Category II, 1 course	Area D5	Area 4E
Italian Language and Culture	3	No equivalent	Category III, 1 course	Area C2	Areas 3B, 6A
Japanese Language and Culture	3	No equivalent	Category III, 1 course	Area C2	Areas 3B, 6A

Latin	3	No equivalent	Category III, 1 course	Area C2	Areas 3B, 6A
Mathematics - Calculus AB or BC/AB Subscore	3	MATH 250	Category IV, 1 course	Area B4	Area 2A
Mathematics - Calculus BC	3	MATH 251	Category IV, 1 course	Area B4	Area 2A
Music Theory	3	MUS 101 + MUS 101L + MUS 102 + MUS 102L	Category III, 1 course	None	None
Physics 1	4	PHYSIC 151	Category I, 1 course	Areas B1, B3	Area 5A with lab
Physics 2	4	PHYSIC 152	Category I, 1 course	Areas B1, B3	Area 5A with lab
Physics C- Mechanics	4	PHYSIC 202	Category I, 1 course	Areas B1, B3	Area 5A with lab
Physics C- Electricity and Magnetism	4	PHYSIC 203	Category I, 1 course	Areas B1, B3	Area 5A with lab
Psychology	3	PSYCH 100 or 100H	Category II, 1 course	Area D9	Area 4I
Spanish Language and Culture	3	Score 3=SPAN 102 or 102H Score 4=SPAN 103 or 103H Score 5=SPAN 104	Category III, 1 course	Area C2	Area 3B, 6A
Spanish Literature and Culture	3	No equivalent	Category III, 1 course	Area C2	Areas 3B, 6A
Statistics	3	MATH 108	Category I, 1 course	Area B4	Area 2A

exams will be required to complete at least 4 semester or 5 quarter units to satisfy the minimum required units for Area 5.

- For complete IGETC AP policy information, visit: <http://admission.universityofcalifornia.edu/counselors/exam-credit/ap-credits/index.html> (<http://admission.universityofcalifornia.edu/counselors/exam-credit/ap-credits/>)

Credit for Courses From Other College and Universities

Academic credits earned at other regionally accredited institutions can be evaluated for students with a completion of 12-degree applicable units at SBVC. It is therefore important that the student request official transcripts from all colleges previously attended. These transcripts should be sent to the Admissions and Records Office (AD/ SS 100). All religious courses taken at a denominational college need to be equated with courses at San Bernardino Valley College; otherwise, the religious courses are not allowed. A student who has taken coursework at institutions of higher learning outside of the United States and who wishes to have that coursework considered toward his/her educational goal at San Bernardino Valley College must have the academic credentials evaluated by a bonafide independent evaluating agency. A list of recommended agencies is available in the Records Office (AD/SS 100). **Note:** Only SBVC RN Applicants are excluded from the 12-unit Residence Requirement.

Credit for DSST/DANTES (Defense Activity for Non-Traditional Education Support)

A student must be enrolled at San Bernardino Valley College to receive course credit for DANTES/DSST Examinations. Credit will not be granted for examinations in which equivalent or more advanced course work has been completed. Examinations listed on the table have been reviewed by SBVC faculty. Students should be aware of the following:

1. University of California does not accept DANTES/DSST credit.
2. DANTES/DSST Examinations are not accepted toward CSU GE-Breadth.
3. Acceptance of DANTES/DSST Examinations varies among transfer universities and other community colleges. Students should be advised that the DANTES/DSST Examinations get re-evaluated.
4. DANTES/DSST Examinations may be under review; therefore, the table below may not be inclusive of all examinations.

Any questions may be directed to the Articulation Officer in the Counseling Center (AD/SS 103).

DANTES/ DSST Examination	SBVC Required Score	SBVC Units	SBVC Equivalent Course (to clear prerequisite requirements)	SBVC Graduation Requirement	CSU GE-Breadth Area
Ethics in America	46/400	3	None	Category III	No credit
Introduction to Business	46/400	3	BUSAD 100	No credit	No credit

CSU GE AP Exam Notes

- If a student passes more than one AP exam in Calculus or Computer Science, only one exam may be applied to the baccalaureate
- Students who pass AP Environmental Science earn 4 units of credit. Tests prior to Fall 2009 may apply to either B1+B3 or B2+B3 of CSU GE. **Fall of 2009 or later, those credits may only apply to B1+B3.**
- If a student passes more than one AP exam in Physics, only six units of credit may be applied to the baccalaureate and only four units of credit may be applied to a certification in GE Breadth
- For complete CSU AP Policy information, visit: <https://www2.calstate.edu/apply/transfer/Pages/advanced-placement-ap.aspx>

IGETC AP Exam Notes

- AP exams in Biology, Chemistry, or Physics 1 allow California community college campuses to apply 4 semester or 5 quarter units to IGETC certification
- AP exams in Environmental Science, Physics C: Mechanics and Physics C: Electricity/Magnetism, 3 semester or 4 quarter units are applied for IGETC certification; therefore, students who complete these

Fundamentals of College Algebra	None	None	None	No credit	No credit
Introduction to World Religions	48/400	3	RELIG 101	Category III	No credit
Lifespan Developmental Psychology	46	3	None	Category II or V	No credit
Principles of Statistics	None	None	None	No credit	No credit

Credit for Military Service

Currently enrolled students who have had a minimum of one year active duty military service will receive three (3) units of credit toward CSU GE-Breadth Area E and Associate Degree: Option #2 requirements for Category V: Lifelong Learning and Self-Development. To obtain this credit, students need to provide a copy of their DD-214 (Service 2 or Member 4) or other official evidence of U.S. military service while on active duty. A Petition for Military Service Credit may be obtained from the Admissions and Records Office (AD/SS 100).

Students who completed coursework at other accredited colleges or universities while using veteran benefits, must submit official transcripts to the Admissions and Records Office, and request an official evaluation within two (2) semesters. To obtain credit for military coursework, students must provide a copy of their AARTS (Army/American Council on Education Registry Transcript System) or SMART (Sailor-Marine American Council on Education Registry Transcript System) Transcript. The American Council on Education makes recommendations for college credit directly on the AARTS or SMART Transcript. It is advisable to meet with a counselor to determine if the military coursework will apply toward the selected degree major and/or general education requirements. If a determination is made to award credit towards a major, then a Modification of Major form needs to be completed by the appropriate department chair. The Credit for Military Training or DANTES form is available from the Articulation Officer located in the Counseling Center, AD/SS 103.

Credit for the College Level Examination (CLEP) Program

A student must be enrolled at San Bernardino Valley College to receive credit for CLEP Examinations. Credit will not be granted for which equivalent or more advanced course work has been completed. Students will receive appropriate credit for CLEP examinations, that faculty have determined equivalent to SBVC courses and/or graduation requirements. Students should be aware of the following:

- University of California does not accept CLEP Examinations.
- Acceptance of CLEP varies at campuses of the CSU.
- At SBVC, credit for CLEP Examinations is on a pass/no pass basis only; no letter grades are assigned.
- Some CLEP Examinations may be under review at SBVC. CLEP scores for examinations no longer offered are evaluated on an individual basis.
- Students request credit for CLEP through the Admissions and Records Office, AD/SS 100, or by calling (909) 384-4401.

Business

CLEP Examination	SBVC Required Score	SBVC Units	SBVC Equivalent Course (to clear prerequisite requirements)	SBVC Graduation Requirement	CSU GE-Breadth Area
Principles of Accounting	50	3	None	No credit	No credit
Introductory Business Law	50	3	BUSAD 210	No credit	No credit
Info. Systems & Computer Apps.	50	3	None	No credit	No credit
Principles of Management	50	3	None	No credit	No credit
Principles of Marketing	50	3	None	No credit	No credit
Financial Accounting	50	3	None	No credit	No credit

Composition and Literature

CLEP Examination	SBVC Required Score	SBVC Units	SBVC Equivalent Course (to clear prerequisite requirements)	SBVC Graduation Requirement	CSU GE-Breadth Area
American Literature	50	3	None	Category III	C2
Analyzing & Interpreting Literature	50	3	None	Category III	C2
College Composition	No credit	No credit	None	No credit	No credit
English Literature	50	3	None	No credit	No credit
Humanities	50	3	None	Category III	C2

Foreign Languages

CLEP Examination	SBVC Required Score	SBVC Units	SBVC Equivalent Course (to clear prerequisite requirements)	SBVC Graduation Requirement	CSU GE-Breadth Area
French Language (Levels 1 and 2) - Complete both	59	3	FRENCH 102	Category III	C2
German Language (Levels 1 and 2) - Complete both	60	3	None	Category III	C2

Spanish Language (Levels 1 and 2) - Complete both	63	3	SPAN 102	Category III	C2
---	----	---	----------	--------------	----

History and Social Sciences

CLEP Examination	SBVC Required Score	SBVC Units	SBVC Equivalent Course (to clear prerequisite requirements)	SBVC Graduation Requirement	CSU GE-Breadth Area
American Government	50	3	None	Category II	D8
Human Growth and Development	50	3	PSYCH 111	Category II	E
Introduction to Educational Psychology	50	3	None	No credit	No credit
Introductory Psychology	50	3	PSYCH 100	Category II	D9
Introductory Sociology	50	3	SOC 100	Category II	D0
Principles of Macroeconom	50	3	ECON 200	Category II	D2
Principles of Microeconomics	50	3	ECON 201	Category II	D2
History of the United States I	50	3	HIST 100	Category II	D6 + US-1
History of the United States II	50	3	HIST 101	Category II	D6 + US-1
Western Civilization I	50	3	None	Category II or III	C2 or D6
Western Civilization II	50	3	None	Category II	D6

Science and Mathematics

CLEP Examination	SBVC Required Score	SBVC Units	SBVC Equivalent Course (to clear prerequisite requirements)	SBVC Graduation Requirement	CSU GE-Breadth Area
Biology	50	3	BIOL 100 (No lab credit)	Category I (No lab credit)	B2
Calculus	50	3	MATH 250	Category IV	B4
Chemistry	50	3	None	Category I (No lab credit)	B1
College Algebra	50	3	MATH 102	Category IV	B4

College Algebra – Trigonometry	50	3	None	Category IV	B4
--------------------------------	----	---	------	-------------	----

College Mathematics	No Credit	No Credit	None	No credit	No credit
Natural Sciences	50	3	None	Category I	B1 or B2
Precalculus	50	3	MATH 151	Category IV	B4

Credit for the International Baccalaureate

A student must be enrolled at San Bernardino Valley College to receive course credit for the International Baccalaureate (IB) diploma or certificates. A score below 5 for Mathematics (HL) will require that students complete assessment at SBVC. Please refer to the table below for IB credit. Students who have earned credit from an IB exam should not take a comparable college course because transfer credit will not be granted for both. The International Baccalaureate is re-evaluated by the UC, CSU, independent universities, and other community colleges. Individual campuses of the UC, CSU may grant more credit. Any questions may be directed to the Articulation Officer in the Counseling Center, AD/SS 103.

IB Examination	Minimum Score	Units	SBVC Equivalent	SBVC Graduation	CSU GE-Breadth	IGETC
Biology (HL)	5	3	BIOL 205 or BIOL 206	Category I (lab)	B2 (no lab)	Area 5B (no lab)
Chemistry (HL)	5	3	CHEM 101	Category I (lab)	B1 (no lab)	Area 5A (no lab)
Economics (HL)	5	3	ECON 200 or ECON 200H	Category II	D2	4B
Geography (HL)	5	3	No equivalent	Category II	D5	Area 4E
History (any region) (HL)	5	3	No equivalent	Category II or III	C2 or D6	Area 3B or 4F
Mathematics (HL)	4	3	MATH 250	Category IV	B4	Area 2A (Requires a score of 5).
Physics (HL)	5	3	PHYSIC 100	Category I (lab)	B1 (no lab)	Area 5A (no lab)
Psychology (HL)	5	3	No equivalent	Category II	D9	Area 4I
Theatre (HL)	4	3	No equivalent	Category III	C1	Area 3A (requires score of 5)

IB Examinati	Minimum Score	Units	SBVC Equivalent	SBVC Graduation	CSU GE-Breadth	IGETC
Language 4 A: Literature (any language except English) HL		3	No equivalent III	Category C2		No credit
Language 5 A: Literature (any language except English) HL		3	No equivalent III	Category C2		3B and 6A
Language 4 A: Language and Literature (any language except English) HL		3	No equivalent III	Category C2		No credit
Language 5 A: Language and Literature (any language except English) HL		3	No equivalent III	Category C2		3B and 6A
Language 4 A: Literature (any language) HL		3	No equivalent III	Category C2		No credit
Language 5 A: Literature (any language) HL		3	No equivalent III	Category C2		3B
Language 4 A: Language and Literature (any language) HL		3	No equivalent III	Category C2		No credit

Language 5 A: Language and Literature (any language) HL	3	No equivalent III	Category C2		3B
Language 4 B (any language) HL	3	No equivalent	No credit	No credit	No credit
Language 5 B (any language) HL	3	No equivalent	No credit	No credit	6A

Transfer of Credit

Transfer Credit Evaluations are only completed upon the student earning San Bernardino Valley College Residency. In order to achieve residency, twelve (12) degree applicable semester units must be earned at San Bernardino Valley College. Transfer Credit Evaluations may take up to fifteen (15) business days to complete and up to thirty (30) business days to complete during peak periods. It is the student's responsibility to provide course descriptions and/or course outlines if requested and this process may be delayed until the student has submitted all supporting documentation as requested by the office of Admissions and Records. The student understands that all official San Bernardino Valley College communication regarding this request will be sent to the student's SBVC College electronic mail account and it is the student's responsibility to maintain this account.

Final Exams and Grades

- Final Examinations (p. 17)
- Final Grades and Transcripts (p. 17)
- Incomplete Grades (p. 18)

Final Examinations

Final examinations are given at the close of each semester. Students are required to take scheduled final examinations in order to receive credit. Any student who is purposely absent from an examination at any time during a semester forfeits the right to make up work by re-examination.

Final Grades and Transcripts

Final grades are accessible via the Internet as soon as they are submitted by the instructor. To access San Bernardino Valley College's WebAdvisor, go to: www.valleycollege.edu/webadvisor (<http://www.valleycollege.edu/webadvisor/>)

Note: Transcripts will not be released if a student has holds, an outstanding financial obligation, or other academic or probationary issues. Requests for transcripts online by logging onto: www.valleycollege.edu/transcripts (<http://www.valleycollege.edu/transcripts/>). Requests will be filled within the legally prescribed timeframe, assuming there are no outstanding obligations to the college, or other holds on the students' record. The first

two transcripts are provided at no charge. After two, there is a charge for each additional request.

Incomplete Grades

An incomplete or "I" symbol will be awarded to the student who, in the judgment of the instructor, is unable to complete a course due to a verified emergency. An *Incomplete* form will be completed by the instructor for each student and submitted to the Admissions and Records Office. This form will cover the conditions for the removal of the "I" and the grade that will be recorded if the work is not completed within one year from the end of the semester in which the "I" was assigned. The student cannot register for the same course until the "I" has been removed.

Grades and Grade Points

The system of grades and grade points at San Bernardino Valley College is as follows:

Grade	Description	Grade Numeric Value
A	Excellent	4
B	Good	3
C	Satisfactory	2
D	Passing, Less Than Satisfactory	1
F	Failing	0
P ¹	Pass	0
NP ²	No Pass	0
I ³	Incomplete	–
W ³	Withdrawal	–
MW	Military Withdrawal	–
IP ³	In Progress	–
RD	Report Delay	–

¹ Pass (P) grade units are not counted in GPA however, credit is earned.

² No Pass (NP) units are not counted in GPA; NP units are used in calculating units attempted for progress, probation and dismissal.

³ Non-evaluative symbols; no units or credit earned.

Only instructors may assign grades, and the grades given are final except in cases of mistake, fraud, bad faith, or incompetence. No grade will be changed for any reason or any circumstances after three years from the end of the term in which the grade was assigned.

How to Calculate your GPA

A GPA or Grade Point Average is the average of student grades. One can calculate their GPA for one semester or for their cumulative, overall GPA.

Example:

Course	Units Attempted	X	Grade (Numerical Value)	=	Grade Points
ENGL 101	4	X	B (3)	=	12
MATH 102	4	X	A (4)	=	16
SOC 100	3	X	B (3)	=	9
POLIT 100	3	X	C (2)	=	6
HIST 101	3	X	D (1)	=	3

KIN/F 105A (1)	X	W (0)	=	0
KIN/F 108A 1	X	F (0)	=	0
Totals:	18			46

1. Grades are assigned a numerical value:

A = 4.0

B = 3.0

C = 2.0

D = 1.0

F = 0.0

Note: Units attempted that result in P/NP, CR/NC, W, IP, RD or I grade are not used to calculate the GPA.

2. Multiply the units attempted by the numerical value of the grade to get the grade points:**Example:** 4 (units attempted) X B(3) (grade) = 12 (grade points)

3. Total the units attempted and the grade points.

4. The GPA is determined by dividing the total grade points by the number of attempted units:

Example: 46 (grade points) ÷ 18 (units attempted) = 2.56 (grade point average)

Grade Scale

4.0 = A average

3.0 = B average

2.0 = C average

1.0 = D average

0.0 = F average

Converting Quarter Unit to Semester Units

Quarter units are converted to semester units by multiplying the quarter units by 0.667:

Example: 4 (quarter units) X 0.667 = 2.67 (semester units)

Converting Semester Units to Quarter Units

Semester units are converted to quarter units by multiplying the semester units by 1.5:

Example: 4 (semester units) X 1.5 = 6 (quarter units)

Pass/No Pass

Students who wish to be graded in any class on a Pass/No Pass basis must complete the appropriate form, which is available in the Admissions and Records Office (AD/SS 100) or on the college website. The paperwork must be submitted no later than the end of the first 30 percent of the course. Credit will be granted only when the work is of a quality equivalent to a grade of "C" or better. A maximum of fifteen (15) units of credit (P) courses may apply toward graduation requirements. Pass/No Pass grading is not permitted in a course within a student's major area of study. This rule may be waived for students who complete courses for credit and who later declare a major in that field of study. Once Pass/No Pass has been selected as a grading option, a letter grade (A-F) cannot be issued.

Probation and Dismissal

- Academic Disqualification (p. 19)
- Academic Probation (p. 19)

- Progress Probation (p. 19)
- Readmission After Disqualification (p. 19)

Academic Disqualification

Students on academic and/or progress probation shall be dismissed for one semester when one or more of the following conditions exist:

- The student has earned a cumulative grade point average of less than 2.00 in all units attempted in each of the three consecutive semesters. (For purposes of this section, semesters shall be considered consecutive based on the student's enrollment.)
- The student has received course completion symbols of F, NP, I and/or W in fifty (50) percent or more of the units for which he/she was enrolled in each of three consecutive semesters.
- The student has received a combination of the two patterns listed above in each of three consecutive semesters.

As with probation, a student will be informed of dismissal by email and/or letter. In addition, students may appeal their probation status by making an appointment with a program counselor and completing the required paperwork.

Academic Probation

Students will be placed on academic probation when their cumulative grade point average in 12 or more units fall below 2.00 in all units attempted which were assigned based on the college grading scale. Students will be informed that they are on academic probation by email and/or letter. The letter will list common causes of unsatisfactory progress and will recommend services for improving academic achievement. A student on academic probation will not be allowed to register for additional courses until meeting with a counselor. A student will be released from academic probation when their cumulative grade point average reaches 2.00 or higher. In addition, students may appeal their probation status by making an appointment with a program counselor and completing the required paperwork.

Progress Probation

Students will be placed on progress probation when they have attempted at least 12 units and have received course completion symbols of F, W, I and/or NP in 50 percent or more of these units. Students will be informed they are on progress probation by email and/or letter. The letter will list common causes of unsatisfactory progress and will recommend services for improving academic achievement. If the student on progress probation also has a grade point average of less than 2.00, they will not be allowed to register for additional courses until meeting with a counselor. Students will be released from progress probation status whenever more than fifty percent of all the units taken at the college have been completed with an assigned letter or P grade. In addition, students may appeal their probation status by making an appointment with a program counselor and completing the required paperwork.

Readmission After Disqualification

Students may be reinstated one semester after the date of dismissal. Students enrolled following dismissal shall be on probationary status for one semester. If, after this semester, the scholastic achievement of the readmitted student continues at a probationary level, the student may be dismissed for one year. Students must see a counselor and complete

readmissions documents. Counseling can be reached in AD/SS 103 or at (909) 384-4404.

Academic Renewal

Students may petition to have their academic record reviewed for academic renewal of substandard academic performance, which is not reflective of their demonstrated ability under the following conditions:

- Students may petition to have eliminated from the computation of the total grade point average any units and credits taken during not more than two consecutive terms of attendance, excluding Summer Session, at any college within the San Bernardino Community College District.
- Students must have achieved a minimum grade point average of 2.0 in all coursework completed subsequent to the semester(s) requested in the petition.
- Students must complete a minimum of twenty-four semester units subsequent to the semester(s) requested in the petition, at any accredited college.
- At least two-semester must have elapsed from the time the course work to be removed was completed.
- A student may not petition for academic renewal under this procedure more than one time per college.
- Up to thirty units of course work may be eliminated from consideration in the cumulative grade point average per college.

Academic renewal actions are irreversible. Institutional action taken under this procedure will not remove the courses, units, grades, or any other information from the student's permanent record. When academic renewal procedures permit previously recorded substandard course work to be disregarded in the computation of grade point averages, the permanent academic record shall be annotated in such a manner that all work remains legible, insuring a true and complete academic history.

Academic renewal procedures will not prevent the student from retaking the course in a subsequent semester, if necessary, in accordance with course repeat policies or alter records of previous attempts of the same course.

Academic renewal procedures may not conflict with the District's obligation to retain and destroy records or with the instructor's ability to determine a student's final grade.

Students must file the Petition for Academic Renewal in the Admissions & Records Office at the respective college where the units were completed after meeting with a counselor. The determination of eligibility will be decided by the Director of Admissions & Records, or their designee.

Non-Discrimination Policy

San Bernardino Community College District and its two colleges, San Bernardino Valley College and Crafton Hills College, are committed to non-discrimination. Our goal is to provide equal opportunities for all community members in all areas of the college including admission, student financing, student support facilities and activities, and employment. Federal laws and District policies strictly prohibit all types of discrimination, including sexual harassment and inequities based on race, color, religion, sex, age, marital status, physical disabilities, mental impairments, or sexual orientation. The District's non-discrimination policies are supported by the requirements of Titles VI and VII of the Civil Rights Act of 1964, as amended; Title IX of the education amendments of 1972; the Age Discrimination in Employment Act of 1975; and sections 503 and 504 of the Rehabilitation Act of 1972, as

amended, and the Americans with Disabilities Act. San Bernardino Valley College is further committed to overcoming sex discrimination and sex stereotyping in vocational education programs. In addition, the lack of English language skills will not be a barrier to admission and participation in vocational education programs. Students, job applicants, and employees may complain of any action, which they believe discriminates against them on the above-cited grounds. For information regarding the college's non-discrimination policy or to file a complaint, contact:

Vice Chancellor of Human Resources
District Building, SBCCD
550 E. Hospitality Lane, Suite 200
San Bernardino, CA 92408.

You may also call (909) 382-4040. For information regarding the requirements of Section 503 and 504 of the Rehabilitation Act of 1973 or to file a complaint, contact the Vice President of Student Services, San Bernardino Valley College, in AD/SS 200, or call (909) 384-4473.

Open Enrollment Policy

The policy of San Bernardino Community College District is that, unless specifically exempted by statute or regulation, every course, or class offered by the college is open to enrollment and participation by a person who has been admitted to the college and who meets the prerequisites approved for a given course.

Sexual Harassment Policy

Sexual harassment of students or employees in the academic and work environments violates both federal and state law and district policy, and it will not be tolerated. It also violates law and policy to retaliate against any individuals for filing a complaint of sexual harassment, or for participation in the investigation or resolution of a formal or informal, written or oral complaint of sexual harassment. Unlawful harassment based on sex includes, but is not limited to, classroom conditions, grades, academic standing, scholarships, recommendations, employment opportunities, disciplinary action, or any other aspect of college life within the control of the District. Complaints of sexual harassment may be registered by calling the Vice President of Student Services at (909) 384-4473.

Academic Freedom

San Bernardino Valley College is committed to the principle that the free expression of ideas is essential to the effective education of its students and should be limited only by the responsibility to express ideas with fairness and in a manner that respects the differing ideas of others and distinguishes between established fact and theories and one's own opinion. No special limitations shall be placed upon the study, investigation, presentation, and interpretation of facts and ideas concerning human society, the physical and biological world, and other branches of learning, subject to accepted standards of academic and professional responsibility. Students shall have the opportunity to study controversial issues and divergent views to arrive at their own conclusions. While students may represent without penalty any opinion in or out of class, they may be required to demonstrate knowledge of views contrary to their own in order to fulfill course requirements. **(Excerpted from Board Policy 4030)**

Credit Courses

- Course Identification Numbering System (C-ID) (p. 20)
- Prerequisites, Corequisites, and Departmental Advisories (p. 20)
- Repeated Courses (p. 21)

Course Identification Numbering System (C-ID)

The Course Identification Numbering System (C-ID) is a statewide numbering system independent from the course numbers assigned by local California community colleges. A C-ID number next to a course signals that participating California colleges and universities have determined that courses offered by other California community colleges are comparable in content and scope to courses offered on their own campuses, regardless of their unique titles or local course number. Thus, if a schedule of classes or catalog lists a course bearing a C-ID number, for example COMM-110, students at that college can be assured that it will be accepted in lieu of a course bearing the C-ID COMM-110 designation at another community college. In other words, the C-ID designation can be used to identify comparable courses at different community colleges. However, students should always go to www.assist.org (<http://www.assist.org>) to confirm how each college's course will be accepted at a particular four-year college or university for transfer credit.

The C-ID numbering system is useful for students attending more than one community college and is applied to many of the transferable courses students need as preparation for transfer. Course requirements may change, and courses may be modified and qualified for or deleted from the C-ID database, students should always check with a counselor to determine how C-ID designated courses fit into their educational plans for transfer.

Prerequisites, Corequisites, and Departmental Advisories

When registering for classes, students are required to adhere to enrollment policies that relate to prerequisites, corequisites, and departmental recommendations.

1. A **prerequisite** is a course or skill that must be met before a course is taken. Students registered in a class without having completed the prerequisite(s) may be dropped from the class. Prerequisite courses must be completed with a grade of C or higher. Prerequisite courses completed with a grade of D or F indicate unsatisfactory performance in the course and do not satisfy the prerequisite;
2. A **corequisite** is a course that must be taken during the same semester as another course in which the student would like to enroll;
3. A **departmental advisory** is a suggested course that would be helpful for a student to have completed prior to enrolling. A departmental advisory is a suggestion, not a requirement.

Students may challenge a prerequisite or corequisite on one or more of the following grounds:

1. The student can demonstrate they have the knowledge or ability to succeed in the course or program despite not having satisfied the prerequisite or corequisite;
2. The student will be subject to undue delay in attaining their educational goal as outlined in their Student Education Plan (SEP) because the

prerequisite or corequisite course has not been made reasonably available;

3. The prerequisite or corequisite is discriminatory or is being applied in a discriminatory manner;
4. The prerequisite or corequisite has not been established in accordance with the District's process for establishing prerequisites and corequisites or was established in violation of Title 5.

It is the student's responsibility to provide information to support the challenge. Challenges must be filed in the Division Office within the first week of class. The college will process the challenge within five (5) working days. For information on challenging a prerequisite, contact the Division Office at (909) 384-4404.

Repeated Courses

Course Repetition in a Non-Repeatable Course

Course repetition allows students to repeat classes under the following circumstances: (Title 5, Section 58161)

1. The student is repeating the course to alleviate substandard work, which has been recorded on the student's record (D, F, or NP). Courses in which a substandard evaluative symbol has been assigned may be repeated two times for a total of three enrollments. Students may attempt a course more than three times only upon approval through the college's petition process (Title 5, section 55024).
2. The course outline of record has been officially changed and demonstrates significant curricular changes. A *Petition for Academic Exception* is required.
3. Repetition of courses where substandard work has not been recorded is permitted when such repetition is necessary for a student to meet a legally mandated training requirement as a condition of continued paid or volunteer employment.
4. Significant lapse of time exception if the following conditions are met:
 - At least 36 months, or more if required by district policy, has elapsed since the student previously was assigned or awarded a grade in the course;
 - The student's prior grade was a satisfactory grade (55000(w)); and either
 - i. The course is required by the district as a properly established recency prerequisite (5503); or
 - ii. Another institution or higher education to which the student is seeking to transfer requires the student to have taken the course more recently than the student's last enrollment.

Non-Degree Applicable Courses

Courses numbered in the 900s do not apply toward a degree, and are designed to provide the fundamental skills necessary for successful completion of other college courses. These include pre-collegiate courses in reading, writing, computation, learning skills, study skills, and English as a second-language. Non-degree applicable courses, including basic skills courses, are indicated in this catalog by numbers from 900 to 999.

In accordance with Title 5, Section 55758.5 (b), grades earned in non-degree applicable courses are not included when calculating a student's degree applicable grade point average. Students will not receive credit for more than thirty (30) units of basic skills course work taken in the San Bernardino Community College District. Basic skills coursework earned in another community college district will not be counted toward the 30-unit limit. Students enrolled in English as a second-language courses and students

identified by the District for learning disabled programs are exempt from this 30-unit limit. Other students may apply for a waiver of the 30-unit limit. Please contact a counselor in the Counseling Center, (909)384-4404 and press zero ("0") for more information about the waiver process.

ADMISSIONS AND REGISTRATION

Admissions and Records

Location: AD/SS 100

Phone Number: (909) 384-4401

Website (<https://www.valleycollege.edu/admissions-financial-aid/admissions-records/>)

Admission to San Bernardino Valley College is governed by the laws of the State of California and by supplementary regulations established by the San Bernardino Community College District Board of Trustees. Every course, whether offered on the main campus, online, or at a satellite location, is open to any person who is eligible for admission to San Bernardino Valley College and who meets any prerequisites as have been established in accordance with Title 5 of the California Administrative Code.

Admission Regulations and Residency

AB 540 (p. 22)

Admission Requirements (p. 22)

Deferred Action for Childhood Arrivals (DACA) (p. 22)

Discharged Members of the Armed Forces (p. 22)

High School Students (p. 22)

International Students (p. 23)

Non-Resident Veterans AB13 (p. 23)

Out-of-State Students (p. 23)

Residence Requirements (p. 23)

AB 540

San Bernardino Valley College, in compliance with California law, welcomes non-resident students, and will charge them the same fees as California residents, for tuition purposes, if they meet all of the following criteria:

- Have attended a combination of California High Schools, Adult Schools, and Community College for the equivalent of three (3) years or more.
- Have a high school diploma (or equivalent)
- In the case of non-immigrant aliens, you have applied for legal status – or will sign an affidavit stating your intent to do so.

Please visit the Admissions and Records Office for further information.

Admission Requirements

The following groups are eligible for admission to San Bernardino Valley College:

- Any individual, age 18 or above, who can reasonably profit from instruction.

- Any individual who has graduated from high school or who has been awarded a California Certificate of Proficiency, who has successfully completed the GED, or has been awarded a certificate of completion from a high school.

Deferred Action for Childhood Arrivals (DACA)

You are eligible for DACA if you:

- Were under the age of 31 as of June 15, 2012;
- Came to the United States before reaching your 16th birthday;
- Have continuously resided in the United States since June 15, 2007, up to the present time;
- Were physically present in the United States on June 15, 2012, and at the time of making your request for consideration of deferred action with USCIS;
- Entered without inspection before June 15, 2012, or your lawful immigration status expired as of June 15, 2012;
- Are currently in school, have graduated or obtained a certificate of completion from high school, have obtained a general education development (GED) certificate, or are an honorably discharged veteran of the Coast Guard or Armed Forces of the United States and Have not been convicted of a felony, significant misdemeanor, three or more other misdemeanors, and do not otherwise pose a threat to national security or public safety.

Individuals can call USCIS at 1 (800) 375-5283 with questions or to request more information on the deferred action for childhood arrivals process.

Discharged Members of the Armed Forces

A student who was a member of the Armed Forces of the United States stationed in California on active duty for more than one year immediately prior to being discharged shall be exempt from paying nonresident tuition for up to one year if he or she files an affidavit with the community college stating they intend to establish residency in California as soon as possible. This one-year exemption shall be used while the student lives in this state and within two years of being discharged (effective January 1, 2013, AB 2478 amended Education Code Section 68075.5 to give the student two years to start the one-year exemption period as the student may need to temporarily return to their home state after discharge and may not be able to immediately start their education in California). A former member of the armed forces of the United States who received a dishonorable or bad conduct discharge shall not be eligible for this exemption.

High School Students

Students who are currently attending high school, and are seeking advanced scholastic or vocational work may apply for admission to San Bernardino Valley College as a specially admitted, concurrently enrolled high school student.

Each student's application and records are reviewed individually, and not all students who apply will be admitted. Admission decisions are made based on a combination of the following factors:

- Overall academic grade point average;
- Performance in prior coursework of a similar nature to which the student is petitioning to take, as indicated by their grades in those courses;
- Any and all academic tests or examinations recorded on the high school transcript;
- The recommendation of the high school principal (or designee);
- High school students are limited to 11 units per term, unless they are participating in the Middle College High School or CCAP program.

The over-arching concern of the admission review process is that the high school student is adequately prepared to engage in the rigors of college-level work, and has a high probability of success.

High school students wishing to attend SBVC must complete and submit the following items, at least two weeks prior to the beginning of instruction:

- Regular application for admission to SBVC
- Concurrent Enrollment Petition form
- Confidential Youth Emergency Card
- Official copy of their high school transcript

The Concurrent Enrollment Petition form requires the signature of the high school principal (or designee), certifying the student is academically qualified, and recommending the student for an advanced academic or vocational experience. All forms are available online at the Admissions and Records website. All high school students wishing to enroll in transfer-level courses (courses numbered 100-299) must be in their junior or senior year, with an academic GPA of 2.0, and have high passing grades in courses similar to those they wish to take at SBVC. The courses requested at SBVC must not duplicate courses currently available at the high school.

High school students wishing to enroll in vocational courses may be in grades 9-12, with an academic GPA of 2.0, and have passing grades in courses similar to those they wish to take at SBVC. The courses requested at SBVC must not duplicate courses currently available at the high school.

All concurrently enrolled high school students must participate in the college assessment and orientation prior to approval to enroll.

International Students

San Bernardino Valley College is approved by the U.S. Citizenship and Immigration Services (USCIS) to admit non-immigrant international students who are taking lower division coursework for transfer to four-year institutions or who are taking coursework leading to a vocational training certificate or an associate degree. San Bernardino Valley College requires international students to submit or mail to the Counseling Center (AD/SS 103) complete international application packages, including the following items:

- International student application for admission
- Non-refundable processing fee of \$25
- A minimum score of 45-46 on the internet-based TOEFL (Test of English as a Foreign Language)
- Official transcripts (i.e., academic records) from high school and college(s) previously attended, accompanied by a notarized translation if the original is not in English or Form I-134
- An affidavit of support form, an official bank letter and an original bank statement, verifying sufficient funds are available to cover all expenses while studying in the U.S.

- Photocopy of passport
- Photocopy of I-94, I-20 and visa, if the student is currently studying in the U.S.

The international application deadlines are May 1 for the Fall semester, October 1 for the Spring semester, and March 1 for the Summer sessions. International applicants living outside of the U.S. at the time of their applying to the college are strongly recommended to apply at least six months before the term starts. After submitting international application packages, applicants need to complete the General College Application online. Information about the international application can be found at the college's website (https://www.valleycollege.edu/student-services/specialized-counseling-services/international-students/admission_requirements.php).

If an applicant is admitted to the college, students will receive a letter of acceptance, along with an I-20 Form (Certificate of Eligibility) issued by the college. Per USCIS regulations, international students must maintain full-time student status and enroll in at least 12 units per semester. International students are also required to purchase health insurance to cover the time they are residing in the U.S.

Non-Resident Veterans AB13

In August 2014, the Veterans Access, Choice, and Accountability Act of 2014 (VACA Act) was signed into law. Please see the Admissions and Records Office for more details. (VACA is only applicable for students who are using CH. 30, 33, & 33TR GI Bill benefits). A student who is a full-time employee of a public institution of higher learning, or whose parent or spouse is a full-time employee, will be entitled to resident classification until they have resided in the state the minimum time necessary to become a resident. Any student may make a written appeal to the Director of Admissions and Records within 30 calendar days of notification of a final decision by the college regarding classification.

Out-of-State Students

Out-of-state applicants are admitted to the college on the same basis as California residents except that they are required to pay non-resident tuition fees and Capital Outlay Fee in addition to other fees required by the college. After a student has been present in California for one year and has manifested clear intent to become a California resident, they may apply for reclassification as a California resident.

Residence Requirements

Residence determination must be made each semester for nonresident tuition purposes. The college application and, if necessary, other evidence furnished by the student are used in making residency determination. All documentation must be submitted within 2 weeks of start of term or submission of admissions applications. Residency will not be changed once the semester has ended. Any adult who is physically present in the state while, at the same time, intending to make California their permanent home, may establish legal residence. The resident determination date is the day immediately preceding the opening day of instruction for each semester or term.

Steps must be taken at least one year prior to the residence determination date to establish the intent to make California one's permanent home with concurrent relinquishment of the prior legal residence. Some indications

of intention to establish and maintain California residence include, but are not limited to:

- Payment of California state income tax as a resident;
- Registering to vote and voting in California;
- Possessing California motor vehicle license plates;
- Possessing a valid California driver's license;
- Maintaining a permanent military address or home of record in California while in the armed services;
- Establishing and maintaining active California bank accounts;
- Being a petitioner for a divorce in California.

In general, an unmarried minor (a person under 18 years of age) derives legal residence from the parent or parents with whom he/she lives. The student who is within the state only for educational purposes does not gain the status of resident regardless of the length of his/her stay in California.

Exceptions to the Residence Requirements are as Follows:

1. Persons below the age of 19 whose parents were residents of California but who left the state while the student who remained was still a minor. When the minor reaches 18, the exception continues for one year to enable the student to qualify as a resident.
2. Persons below the age of 19 who have been present in California for more than a year before the residence determination date and who have been entirely self-supporting for that period of time.
3. Persons below the age of 19 who have lived with and have been under the continuous direct care and control of an adult, not a parent, for the two years immediately preceding the residence determination date. Said adult must have been a California resident for the most recent year.
4. Active Duty Military Students EC 68075; T5 54042; LEGAL OPINION 10-05: Students who are members of the armed forces of the United States domiciled or stationed in California on active duty are entitled to resident classification for purposes of determining the amount of tuition and fees for the duration of their attendance at a community college as long as they remain on active duty as of the residence determination date. If that member of the armed forces of the United States who is in attendance at an institution is thereafter transferred on military orders to a place outside this state where the member continues to serve in the Armed Forces of the United States, he or she shall not lose his or her resident classification so long as he or she remains continuously enrolled at that community college. Please note that exclusions or limitations from residency classification for active military duty students related to students "seeking a graduate degree" or "members of the armed forces who were assigned for educational purposes to state-supported institutions of higher education" are no longer applicable under the current statute and federal law. (*The Chancellor's Office has concluded that service in the California National Guard does not constitute being a member of the Armed Forces of the United States for Education Code sections 68074 and 68075.*)

Registration

The schedule of classes provides detailed instructions on the procedures involved in registering for classes. Students may register online in accordance with the dates identified in the Class Schedule. **Attending courses without being formally enrolled is considered auditing. In order to audit a course, the student must complete the auditing process.**

Students who have an incomplete application, dismissal or probationary issues, an outstanding financial obligation or have not completed orientation and assessment will not be allowed to register for classes until the issue is resolved. Examples of obligations falling under this policy include but are not limited to: returned checks, unpaid loans, equipment breakage, unpaid library fines, and registration fees.

The college reserves the right to cancel any class that does not meet the minimum size requirements established by the district. In some cases, cancellation may take place before the first class meeting. Students will automatically be mailed a refund of the enrollment fees for any class cancelled by the college.

Late Registration

Applicants who do not enroll during the registration period may enroll online using a *Web Authorization* sticker, which is received from the instructor, once classes begin. Keep in mind that an instructor may refuse to admit a late registrant when the work missed cannot reasonably be made up, when the class is full, or when normal progress in the course would be impossible or unsafe. Students will not be enrolled into a class if the deadline date for admissions has passed. Do not attend class on or after census date.

Waitlist

Waitlisting gives students the opportunity to be first in line to register for sections that are already full. For example, if a person drops from a course, then the individual at the top of the waitlist will have the first opportunity to register and fill that empty seat. Waitlisting is available on most classes. Students will be notified through Valley College student email.

Payment of Fees

Current fees are listed each semester in the *Class Schedule* and *on the website*. All fees are due and payable at the time of registration. In addition to enrollment fees, students will be assessed the following: health fee, accident insurance, Student Representation fee, Transportation fee, and Student Center fee. Optional fees include those for a parking permit and for the Associated Students (ASB) discount card. Students who are not residents of California are required to pay non-resident tuition.

A hold is placed on all student accounts with past due fees. The hold prevents students from registering for courses, and receiving certificates and diplomas. Additionally, students may not be able to participate in additional school activities, such as, field trips, while account is on a financial hold. The Financial/Outstanding Balance Hold will be released upon receipt of full payment.

Auditing Courses

Students who have been admitted to SBVC are eligible to apply to audit courses at the college. Students must meet all course prerequisites. It is the responsibility of the student to provide documentation that the prerequisite(s) has been satisfied. Auditing enrollment is permitted only on a space available basis. A student may enroll in a course for audit only if they have not enrolled in that course for credit during the same semester.

Students shall complete an audit application. Any instructor may refuse auditing without explanation. Credit students will always receive registration priority and space in the classroom over student(s) that are auditing the course. Once audit enrollment is completed, no student will be permitted to change their enrollment from audit to receive credit nor is a

student permitted to change enrollment from credit to audit. The course audited cannot be used as a prerequisite.

The fee for auditing is \$15 per unit. A student enrolled for credit in ten (10) or more semester credit units will not be charged a fee to audit three (3) or fewer units per semester. Students must also pay all mandatory student fees. Audited classes do not count towards units for financial aid, veteran's benefits, full-time student status, or any other purpose. No refund will be permitted after enrollment per BP/AP 5033. Classroom attendance of students auditing a course shall not be included in computing the apportionment due to the District.

Adding a Class

Registered students may add a class during a designated period at the beginning of each semester. Once the web registration period has passed, a *Web Authorization* code, obtained from the instructor, is needed to change a schedule. If a schedule is revised in such a way as to change the total number of units taken, the amount of enrollment fees will also change. All fees are due at the time the change is made.

Refunds

1. Designated fees include:

- Enrollment
- Non-Resident Tuition
- Parking
- Health
- Accident Insurance
- Student Center
- SBVC Student Representation
- Transportation

2. Military service exception:

- If a student who is a member of an active or reserve military service receives orders compelling a withdrawal from courses, the District shall, upon petition of the affected student, refund the entire enrollment fee unless academic credit is awarded.

3. Refund schedule:

This refund schedule applies to all fees listed in Section A:

- Fees are collected in error – Fees collected in error will be refunded in their entirety.
- Class cancelled by the college – If a class is cancelled by the college, enrollment and/or non-resident tuition fees will be refunded in their entirety. If that cancellation results in a student's withdrawal from the college, refunds of the appropriate fees listed in Paragraph A will apply.

4. Withdrawal from the college:

- Enrollment Fee/Non-Resident Tuition – If a student withdraws during the first two weeks of a full-term class or during the first 10% of a short-term class, enrollment fees and non-resident tuition fees will be refunded;
- Parking fee, Health fee, Accident Insurance fee, Student Services Card fee, Student Center fee, Student Representation fee, and Capital Outlay Fee – In order to be eligible for a refund, a student must withdraw prior to the first day of the term and attach decal/proof to refund request within 30 days of instruction.
- Unit Reduction – If a change of program within the first two weeks of a full-term class or during the first 10% of a short-term class results in a reduction in the number of units taken, the enrollment

fee or non-resident fee will be refunded at the per unit cost of the reduction.

- A student who withdraws from a class or the college after the second week of instruction for a full-term class or the first 10% of a short-term class is not eligible for any refund.
- It is the student's responsibility to drop classes and pay all fees incurred.

5. Refund processing fee:

A charge of \$10.00 will be collected for each refund transaction not to exceed \$10.00 per student per semester, except for cancelled classes or over-payment. Students must drop a class before it begins in order to not incur fees.

It takes approximately six to eight weeks to process a refund check. If a student wishes to apply the refund credit toward registration in another class, he/she must submit the drop and add at the same time.

Veterans

San Bernardino Valley College offers courses approved for Veterans Administration benefits under Title 38, Chapters 30, 31, 33, 35, and 1606 of the U.S. Code. An enrollment certification will be returned when a veteran or an eligible dependent has completed the following:

- Filed an official transcript of all previous work taken at other colleges or universities with the Records Office (These records have to be evaluated and appropriate credit granted);
- Student must see a counselor to have their program approved and to develop an education plan¹. The program must be listed in the College Catalog;
- To be certified, students must enroll only in the classes listed on an education plan¹.

¹ Veterans and their eligible dependents are responsible for notifying the department of any changes.

ENROLLMENT AND ORIENTATION/ASSESSMENT PROCESS

- AB 705 (p. 26)
- Applications Procedures (p. 26)
- Student Orientation Session (p. 26)

AB 705

Assembly Bill 705, which took effect on January 1, 2018, requires a community college district or college to maximize the probability that the student will enter and complete transfer-level coursework in English and Math within a one-year time frame. Colleges are required to use high school coursework, high school grades, and high school grade point averages as a means of placement into English and Math courses. Please consult with a counselor for additional information. See AB-705 website (<https://www.valleycollege.edu/student-services/ab-705/>) for additional information.

Applications Procedures

1. **All new and returning students must apply online at:** www.valleycollege.edu (<http://www.valleycollege.edu>).
2. **Transcripts of prior work:**
Students must have official transcripts of all college work not completed at San Bernardino Valley College sent to the Admissions and Records Office if planning to attend. **If the student does not submit an application, the transcript will be destroyed.**
3. **Orientation/Assessment/Advisement:**
All new students are required to participate in Orientation and Assessment unless specifically exempted from this process. When submitting an application for admission, applicants will receive an SBVC student ID number and will need to complete the following:

Student Orientation Session

College is quite unfamiliar to first semester college students. Orientation to college will dispel most of these unfamiliarity's about SBVC. Through orientation, students will understand course offerings and services including expectations, college life and responsibilities, as well as, the college culture.

The Student Orientation Session can be completed online or on campus during peak registration.

- For online session, visit web site: www.valleycollege.edu/webadvisor (<http://www.valleycollege.edu/webadvisor/>) or
- Make an onsite appointment for group session in the Assessment Center (AD/SS 101).

Assessment Appointment (p. 26)

Policy on the Guided Self-Placement Process/Assessment (p. 26)

Assessment Appointment

After completing the orientation, students must also complete the Guided Self-Placement process for placement into transfer level English,

Reading and Math or ESL (English as a Second Language). To schedule an appointment, go to: https://esars.sbccd.org/V_AssessmentCtr/eSARS.asp?WCI=Init&WCE=Settings (https://esars.sbccd.org/V_AssessmentCtr/eSARS.asp?WCI=Init&/#38;WCE=Settings)

SBVC uses a Guided Self-Placement questionnaire in place of assessment. The questionnaire is primarily used to assist students in the following:

- Identify skill levels in English, Reading, and Math.
- Meet class prerequisite requirements.
- Choose appropriate classes.
- Develop student educational plan.

Please report at least fifteen minutes early on the assessment date chosen. Bring the appointment card as well as a photo ID (driver's license or school ID) and your SBVC ID number. New students must bring an orientation completion certificate at time of test.

- New students are required to meet with a counselor for an education plan prior to registering for classes. Visit the Counseling Center for more information.

Students may be exempt from assessment:

Students may be exempt from the Guided Self-Placement questionnaire/assessment if they:

- Received a grade of "C" or better in a prerequisite English course at the college level.
- Received a grade of "C" or better in a prerequisite Math course at the college level.

Students may be exempt from completing the Guided Self-Placement questionnaire/assessment if they meet at least one of the following criteria:

- Associate Degree or higher from a regionally accredited college or university;
- An earned score of 3.0 or higher in Advanced Placement Tests in English and math;
- Enroll in courses to achieve or maintain certificate or license requirements which do not require math, reading, or English prerequisites;
- Enroll in courses for personal enrichment, which do not require Math, Reading, or English prerequisites. A maximum of 12 units may be taken prior to Assessment.

For the determination of your exemption, please go to the Counseling Center.

Policy on the Guided Self-Placement Process/Assessment

All students entering San Bernardino Valley College are required to complete the Guided Self-Placement questionnaire/ESL assessment process unless exempted. Students may NOT retake the Guided Self-Placement questionnaire unless recommended by the department chair or division dean or recommended by the Student Policy and Scholastic Standards Committee in accordance with the exemption permitted by the SBVC Policy on the Guided Self-Placement/ESL Assessment. Students who retake the Guided Self-Placement will be advised that the most current results will supersede all other results.

Students may satisfy the prerequisite for English, math, and reading through: Completing the Guided Self-Placement questionnaire/ESL assessment process. Satisfactory completion of the prerequisite course. Providing acceptable challenge documentation to the department chair or division dean. Previously enrolled high school students have the ability to retake the Guided Self-Placement questionnaire after they have graduated.

Here are questions students most often ask about the guided self-placement questionnaire/assessment:

Q. Why complete the Guided Self-Placement questionnaire/assessment?

A. The Guided Self-Placement questionnaire is designed to assist in the process of guiding students in proper English, Reading, and Math transfer level courses. During the Orientation/Advisement session following the completion of the Guided Self-Placement questionnaire, students will be introduced to the college's services. After the Guided Self-Placement questionnaire is processed, the counselor will assist in selecting appropriate courses for the semester.

Q. If I do not do well with the Guided Self-Placement questionnaire/assessment, will I still be able to attend San Bernardino Valley College?

A. Yes. This is not a pass/fail exam. It is a tool to help students and counselors make appropriate educational plans.

Q. How long will it take to complete the Guided Self-Placement questionnaire/assessment?

A. Approximately Thirty Minutes.

Q. What if I need disability-related accommodations to complete the Guided Self-Placement questionnaire/assessment?

A. If a student has a learning or physical disability that requires reasonable accommodation to complete the questionnaire, please contact Disabled Student Programs and Services (DSPS) in AD/SS 105.

Q. Do other colleges require students to complete a Guided Self-Placement Process?

A. Yes. Every community college in California is required to allow all new students to self-select what level of English, Reading, and Math they begin with.

Q. Does a counselor discuss my Guided Self-Placement results?

A. Yes. Counselors are the best resource to tell students how to interpret placement skills.

Q. If my class has a prerequisite, what do I need to do?

A. Take the prerequisite course, or refer to page 14 for other options

STUDENT SUPPORT PROGRAMS AND SERVICES

Services for Students (p. 28)

Financial Aid Programs (p. 34)

Student Rights and Responsibilities (p. 36)

Student Success and Support Program (SSSP) (p. 40)

Services for Students

Art Gallery

Hours: Fall and Spring semesters: Monday - Friday, 10 am to 2 pm

Phone Number: (909) 384-8939

Website: (<https://www.valleycollege.edu/artgallery/>)

The Clara and Allen Gresham Art Gallery displays the work of national, regional, local and student artists in 10 - 16 exhibits each year. The hosted receptions that open each show enable the public to meet the artists and instructors. During some shows, the artists will show slides and discuss their work.

Athletics

Phone Number: (909) 384-8516

San Bernardino Valley College is proud of the success of its athletic teams. Men's sports include football, basketball, baseball, track, cross-country, and soccer. Women's sports include basketball, volleyball, soccer, softball, track, and cross-country. Students interested in competing on an inter-collegiate team should contact the Director of Athletics.

CalWORKs

Location: Campus Center (CC) 208

Phone Number: 909-384-4429

Website

San Bernardino Valley College CalWORKs Program is designed to assist students receiving County CalWORKs enhance and achieve educational goals and employment "Self-Sufficiency". Qualified students are eligible to receive the following services: **book vouchers, access to computer lab, parking permit decal, gas cards, childcare assistance, educational counseling, and employment assistance.** For more information or to enroll in the CalWORKs Program, contact us or visit the CalWORKs & Workforce Development Department.

Campus Business Office

Location: AD/SS 206

Hours: 8:15 a.m. to 4:45 p.m., Monday - Thursday and 8:15 a.m. to 4:15 p.m. on Fridays

Phone Number: (909) 384-4453

Website

The Campus Business Office coordinates the on-line sale of parking permits, processes pay-in-person parking permits, receives payments for college functions; and, distributes financial aid, scholarship, care and loan checks to students. In addition, the staff supports accounting services and processes deposits for the ASB, clubs and trust accounts.

Campus Child Development Center

Hours: 7:00 a.m. to 4:00 p.m., Monday-Friday

Phone Number: (909) 384-4440

Website

The SBVC Child Development Center is a licensed facility designed to meet the developmental needs of children from birth through pre-Kindergarten. Our environment nurtures the child and embraces the family. We have an open door policy and encourage all families to participate in the Center. Fees are assessed on a sliding scale (according to state guidelines), and can range from \$0 to \$34 per day, depending on income of the parent(s). Call for a tour of the Center and further eligibility and enrollment information.

Campus Store

Hours: 7:45 a.m. to 6:00 p.m., Monday - Thursday, and 7:45 a.m. to 3:00 p.m. on Fridays

Phone Number: (909) 384-4435

Website: (<https://www.sbvccampusstore.com>)

The Campus Store, located in the Campus Center, sells textbooks, general books, electronics and a wide variety of supplies, apparel, sportswear, accessories, snacks, beverages and college logo and imprinted items.

Campus Technology Services

24/7 Technical Support

SBCCD Technical Assistance Center (STAC)

Phone Number: (909) 384-4357

Website: (<http://support.valleycollege.edu>)

The Campus Technology Services Department manages the technology systems and provides technology support services for the campus community.

Wireless Internet Services

Wireless Internet services are available by using the following information:

SSID: SBVC - Portal

Username: Student Email Address

Password: Student Email Password

(May be asked to trust a certificate)

Copiers (For Student Use)

Locations:

- Library
- Applied Technology Building (Hallway)
- Student Success Center (PS Building)

Features:

- Printing from your flash drive
- Scan to your flash drive
- Scan to your email
- B/W and Color copies

Printers (For Student Use)

Locations:

- Library
- Cyber Lounge

Clubs and Organizations

Location: Office of Student Life (Campus Center)

Phone Number: (909) 384-4474

Website

Students are invited to join one of the various campus clubs – or to start one of their own! For more information on campus clubs, please stop by the Office of Student Life or call. A list of currently registered clubs and club information may be obtained on our website.

Counseling Center

Location: AD/SS 103

Phone Number: (909) 384-4404

Website

The faculty of the Counseling Center are available to assist students in making informed decisions about their academic, career and life goals. Additionally, counselors help students select the courses needed to meet the requirements for associate and associate-transfer degrees, certificates, university transfer, and career advancement.

The Counseling Center is committed to increasing college success and career readiness within the framework of the Student Success Act of 2012 and AB 705. By virtue of this law, students are required to undergo the following – college orientation, assessment, academic advising for basic skills as applicable, identification of a course of study (commonly called as major), initial education planning leading to a comprehensive education plan, and follow-up services to complete their academic goals within a reasonable time.

Varieties of services are available through the Counseling Center that include but are not limited to:

- Educational and career planning including the development of students' abbreviated and comprehensive education plans.
- Appointments for abbreviated education plan for one to two semesters to accommodate immediate scheduling needs for registration are scheduled during the entire academic year. However, due to the influx of students during registration periods, it is highly recommended that appointments for comprehensive education plan be made during non-peak registration periods in September until mid-October, February, and March. Note that the comprehensive education plan covers all semesters required for the achievement of the student's educational goal/s.
- Personal counseling to meet the short-term needs of students with personal concerns which impact their academic life.
- International student counseling to meet specialized enrollment and counseling needs of F-1 visa students.
- Comprehensive counseling for various special populations/learning communities, such as Puente, veterans, and athletes.

Counseling services are provided to prospective, new, and continuing students in an individual and/or group basis as well as online. Students may be seen on a same-day appointment on a first-come, first-served basis. To make a same-day appointment, please call. For limited online counseling and additional information, visit our website.

Disabled Student Programs and Services (DSP&S)

Location: AD/SS 105

Phone Number: (909) 384-4443

Website

The mission of Disabled Student Programs and Services for San Bernardino Valley College (SBVC) is that all students will have the tools necessary to compete globally by strategically utilizing the skills learned from their individual collegiate experiences at SBVC. DSPS team members will facilitate growth, inclusion, and critical thinking to develop leadership and address the diverse learning abilities of students. As a result, students will cultivate strategic ways of navigating their academic, social, and personal goals through self-advocacy, campus involvement, and community awareness that will propel them to continue their educational and career opportunities. The vision of DSPS is that staff members are here to support students and their academic endeavors. As students utilize the services they need, it is our intention to encourage students with the skills necessary for them to advocate for the equitable educational opportunities they deserve.

Academic adjustments and auxiliary aids include alternate media, assistive technology, American Sign Language interpreters, assistive listening devices, spell checkers, tape recorders, magnification devices, specialized keyboards, and computer-assisted real time transcription. Services include DSPS intake and orientation, learning disabilities assessment, academic counseling/advising, education planning, disability-related counseling, personal counseling, vocational counseling, vocational plans, referral to campus and community resources, note takers, campus orientation, priority registration, registration assistance, assistive technology assessment and training, scribes, e-text, and test-facilitation. Educational assistance courses provide specialized instruction and tutoring in math, reading, and spelling.

Students with permanent or temporary disabilities may apply for DSPS. Decisions regarding eligibility are made on an individual basis. For more information, contact DSPS by phone at (909)384-4443 or visit the DSPS Office in the Administration/Student Services Building, Room 105 to make an appointment for intake and advisement.

Dreamers and Dreamers Resource Center (DRC)

Location: Liberal Arts (LA) 121

Phone Number: (909) 384-8915

Website

San Bernardino Valley College's Dreamer Resource Center (DRC) is designed to improve student success and help successfully transition AB 540 students into college. The Center provides academic advising, counseling, referrals to student services programs and peer-to-peer advising in a welcoming environment where Dreamers can connect with campus and community resources. The DRC uses Student Equity and Student Success funds to advise students about the California Dream Act and Deferred Action Childhood Arrivals (DACA) laws. Dreamers visiting the DRC are provided resources intended to assist students in completing their educational and career goals.

The center is part of the First-Year Experience program. Staffing the DRC are a full-time counselor, adjunct counselors, senior student services technician and student ambassadors. Dreamer Liaisons from different departments on campus offer office hours in the DRC to develop

educational plans, as well as assist with completing financial aid paperwork. The Dreamers Club and an annual conference to promote community awareness about the California Dream Act and San Bernardino Valley College academic, vocational and student services programs also add to the support provided.

Extended Opportunity Programs and Services (EOPS) and Cooperative Agencies Resources for Education (CARE)

Location: AD/SS 202

Phone Number: (909) 384-4412

Website

Extended Opportunity Programs & Services (EOPS) is a state-funded student services program designed to provide academic counseling and specialized support services to students who are both economically and educationally disadvantaged. The EOPS Program promotes student success by way of extended counseling support, priority registration, and textbook purchase assistance - just to name a few. Participation in this program is open to California residents and to AB540 students who are eligible for the California College Promise Grant (formerly known as Board of Governor's Fee Waiver) A or B, have completed less than 70 degree-applicable units, are enrolled or plan to enroll full-time each fall and spring semester, and are considered educationally disadvantaged based on responses to questions on the EOPS application. EOPS-eligible students who are also single-head of household, have at least one dependent child under age 18, and currently receiving TANF/CalWORKS benefits for self and/or for dependents may also be eligible to participate in Cooperative Agencies Resources for Education or the CARE Program. In addition to the EOPS services mentioned above, the CARE Program provides grants, single-parent conferences and seminars, meal vouchers and school supplies. All EOPS and CARE support services are contingent upon funding. Fall applications are accepted as early as February each year, and Spring applications are accepted as early as September.

First Year Experience Program (FYE)

Location: Liberal Arts (LA) 132

Phone Number: (909) 384-8988

Website

The San Bernardino Valley College (SBVC) First Year Experience (FYE) program is designed to successfully transition first year students into college. FYE provides a supportive and welcoming environment where first year students connect with student support services on campus to ensure student success.

FYE Offers:

- Guaranteed courses, no competing for classes;
- book assistance and supplies;
- embedded academic counseling that focuses on educational and career goals;
- study groups and learning communities; supplemental instruction;
- enhanced study skills;
- how to utilize library resources to conduct research;
- mandatory workshops, tutoring, fieldtrips, mentoring and service learning projects
- connections with student support services and
- successful transition into college

Food Service/Snack Bar

Locations:

- **Cafeteria:** Main floor of the Campus Center
- **Snack Bar:** Outside the PS Building
- **Sunroom:** Main floor of the Campus Center

The Campus Cafeteria is available year round for hot meals fresh off our grill. During the fall and spring semesters, our Snack Bar provides a selection of pre-packaged sandwiches, salads, snacks, and hot and cold beverages. Food and drink items can also be obtained from the vending machines located throughout the campus. During the fall and spring semesters, the college's award-winning Culinary Arts program operates an on-campus restaurant, The Sunroom. The Sunroom offers a variety of sandwiches, salads, and daily specials at a nominal price.

Guardian Scholars/Foster Youth Services

Location: Liberal Arts (LA) 128

Phone Number: (909) 384-8287

Website

The Guardian Scholars Program is designed to assist students between the ages of 18 years and 24 years of age, who are currently or were formerly in foster care, with the pursuit of a Post-Secondary Education. This office acts as a resource for the many unanswered questions a foster youth may have. The staff of this office will assist with the following:

- Assistance and/or directions in completing all college admission paperwork and financial aid forms;
- Exploration and development of educational goal planning;
- Obtaining the necessary documentation to verify students are or were in foster care;
- Purchasing of school supplies, backpacks, food/snacks, textbook purchases or textbook loans, and computer lab printing.
- Referrals to foster liaisons in each student services office;

The Huddle (Student Athlete Academic Center)

Location: Computer Technology Services (CTS) 107

Phone Number: (909) 384-4427

Website

The Huddle supports and enables student athletes to utilize and integrate the academic resources provided by The Huddle, SBVC Athletics, and Counseling to promote academic success and increase retention, graduation, and transfer rates. The Huddle assists prospective, current, and former SBVC student athletes with their matriculation to SBVC, their academic success at SBVC and their transfer from SBVC to a four-year university.

Services Provided by The Huddle include:

- Academic Counseling and Advisement
- Computer Lab Access
- Free Tutoring (Individual or Group)
- Printing Access
- Registration Assistance
- Study Space

Parking Regulations

Parking decals or daily permits are required to park in all college streets and lots. Follow all parking restrictions and regulations as noted by posted signs and colored curbs. All parking decals are purchased online. Login to WebAdvisor and click on "SB Valley Student Parking Decals." Daily permits may be purchased from dispensers located in Student Parking Lots 1, 3, 5, 7, 8, 9, 10, and 11.

Parking Decal Fees

Fee	Amount
One Semester (Fall or Spring)	\$35.00
with BOG Waiver	\$20.00
Summer Session	\$20.00
Daily Permit	\$ 3.00

Individuals with disabilities must display a valid DMV Handicap Permit placard and a valid college parking decal/permit to park in designated disabled parking spaces. The Board of Trustees of the San Bernardino Community College District, its administration, or other employees are not and shall not be liable under any circumstances for loss or damage to vehicles or contents thereof parked or stored on District property by fire, theft, or any other cause whatsoever.

Puente Project

Phone Number: (909) 384-8255

Website

The UC Puente Project is a national award-winning program that helps tens of thousands of educationally disadvantaged students who enroll in four-year colleges and universities, earn degrees, and return to the community as leaders and mentors for future generations. UC Puente has been at SBVC since 1984 and is a successful statewide transfer program sponsored by the University of California and the California Community Colleges. Puente consists of three components: Writing, Counseling, and Mentoring. Students take two consecutive writing classes: ENGL 101 and ENGL 087 in the Fall and ENGL 102 in the Spring. Students build confidence in their writing skills through an exploration of Mexican/ American/Latino literature. These English classes are linked with a one-unit class, SDEV 015 in the Fall, and SDEV 102 for three (3) units in the Spring. Puente is open to all students.

- Puente students have access to a Puente Motivational Conference in the Fall Semester and to cultural activities year round.
- Puente Students complete their English course sequence requirement to transfer to a CSU or UC in one year.
- Students have the option to receive resources such as a Google Chromebook while they are part of Puente, assigned textbooks for Puente classes, and free four-year university and cultural trips.

SBCCD Free College Promise

Website

Initiated in 2019, SBCCD Free College Promise provided free college to high school graduates for two years at San Bernardino Valley College or Crafton Hills College. As participants in the program, students will receive the following for two years:

- \$0 tuition and fees
- Priority class registration to help get the classes students need to finish on time
- Counseling and Tutoring Services
- Chromebook to make it easier to take classes online or access E-books

Students selected in program are required to comply with the following expectations:

- Attend Summer Bridge Program after high school
- Enroll as a full-time student (12 units or more per semester)
- Attend required counseling appointments determined by college per semester

For additional information please visit our website.

Scholarships and Awards

Location: Campus Center (CC) 226

Phone Number: (909) 384-4471

Website

Scholarships are offered each year to students enrolled at San Bernardino Valley College and detailed information is available to students year-round at the SBVC Scholarship Website. There are two types of scholarships available to students, *Inside Scholarships and Outside Scholarships*. Most scholarships are funded through businesses, associations and college organizations; however, some are funded through individual donations to the SBVC Foundation. Scholarship recipients are selected based on a wide variety of criteria including, in some cases, academic achievement, financial need, community service and barriers or obstacles to their education.

The Scholarships Office administers the program in conjunction with the SBVC Scholarship Committee, which is composed of faculty and staff from across the campus. Students who have completed 12 units or more at SBVC may apply for the Inside Scholarship, which includes over 100 individual scholarships by completing the online application between October and January each year.

Outside Scholarship information is available 12 months out of the year, and scholarship workshops are available to assist students with the process. Scholarship workshops are especially helpful for first time applicants and specialized populations such as AB540, disabled students, foster youth, transfer students, re-entry students and other students facing challenges to funding their education. Students are advised to check the website monthly for workshop schedules, updates and new scholarship postings.

STAR Program

Location: AD/SS 201

Phone Number: (909) 384-4433

Website

The STAR (Success Through Achievement and Retention) program is a federal Student Support Services TRIO program designed to increase the graduation and transfer rate of students who qualify (based on academic need, citizenship status, first-generation college student status, and/or physical or learning disability). The purpose of STAR is to provide a counseling and learning support community that will empower students to complete their educational degree and/or certificate requirements and obtain an AA, AS, Certificate and/ or transfer. Participants receive academic and personal counseling, academic workshops, transfer advising, tutoring,

financial aid counseling, field trips to four-year universities and an opportunity to attend cultural enrichment activities.

Student Health Services

Location: Parking Lot 8, South of the Track and Football Field

Phone Number: (909) 384-4495

Website

Student Health Services provides services to keep students healthy so they can achieve their academic goals with a variety of skilled clinicians available to students through our integrated services providing both mental and physical health services. Educational experiences are also provided to support students in developing and maintaining optimal levels of health and quality of life. There is no charge for office visits, however a nominal fee is charged for medication, lab tests, and immunizations. A Health and Accident fee is paid at the time of registration and supports the Student Health Services. The amount of this fee is posted in the *Class Schedule*. In addition to the health fee, International Students attending SBVC on a student visa must purchase international insurance through the Counseling Center, which covers repatriation and medical evacuation expenses in addition to medical coverage. They must also provide a negative tuberculin skin test or a chest X-ray.

Students are not charged the health fee if they qualify for one of the following exemptions:

- Apprentices attending college under an approved training program;
- Students attending college classes on high school campuses;
- Students enrolled only in community services classes;
- Students who depend exclusively upon prayer for healing in accordance with the teachings of a bonafide religious sect, denomination or organization (documentation required).

Those students who do not attend classes on campus, or who are registered only for Distributed Education classes, will pay only an accident insurance premium of \$1.50 per term. This is a secondary insurance and requires a \$50 deductible.

Student Life & Associated Student Government (ASG)

Location: Campus Center (CC) 128

Phone Number: (909) 384-4474

Website

The Office of Student Life assumes a leadership role in creating a campus environment that integrates the learning experience, which complements the academic curriculum. Programs and services are provided to enhance students' ability to learn and develop the life skills necessary to become productive and caring members of our global society. Student participation in the design and implementation of campus wide programs provides opportunities to develop and enhance characteristics of leadership, interpersonal skills, and personal growth. The office provides structured activities, programs, services, resources and facilities to accomplish this mission.

Associated Student Government

Location: Campus Center 128

Phone Number: (909) 387-1611

Website

The Associated Student Government (ASG) is the official student government organization of San Bernardino Valley College. The ASG represents all SBVC students. The primary responsibility of ASG members is to represent student interests on college, district and statewide committees. In addition, they plan and manage various ASG accounts, including the Student Body Center Fee Account, the Student Representation Fee Account and the General Account. Funds from these accounts are used to support various activities, advocating efforts and Campus Center services and programs. Students can become active in ASG either by running for office during the spring semester or by applying to be appointed to any vacant positions during the fall semester. Appointments are at the discretion of the ASG President with Board of Senators ratification.

Transfer and Career Services

Location: AD/SS 203

Phone Number: (909) 384-4410

Website

The Transfer Center is open to students planning to transfer to any four-year college or university and/or seeking career counseling and information. The center provides the following transfer services and annual events:

- Transfer, Honors, and Career Counseling by appointment or walk-in
- One-on-one appointments with a four-year college or university representative in the Transfer Center
- A variety of university representatives in the Library Walkway during the spring, summer, and fall semesters
- Transfer requirements relative to four-year college or universities.
- Transfer orientation sessions
- Assistance with major selection
- Credit evaluations
- Transfer agreements
- Information about special programs such as TAP, TAG and Cross Enrollment
- Field trips to four-year institutions
- A monthly calendar of events
- A monthly newsletter

Annual Events:

- TAG, UC, and CSU University Application Workshops in the fall semester
- Transfer/College Fairs in the spring and fall semesters
- Transfer Celebration and Reception in the spring semester
- Transfer 101 Conference in the spring semester

Career counseling is available to assist students with career development and planning process, and resources that assist students with identifying career goals that will prepare students to meet the demands of the global job market. Multiple career assessments are available. The various assessments focus on personality, interest, abilities and skills. The Career Counselor provides assistance with resume writing, mock interviews and cover letters.

Transfer materials can be requested from the Transfer Center.

Please call, stop by the Transfer Center, or check the above website to schedule an appointment on-line.

Umoja-Tumaini Program

Location: AD/SS 203 and Physical Science (PS) 138

Phone Number: (909) 384-8950 or (909) 384-8651

Website

Umoja-Tumaini is a statewide program designed to increase academic and personal success, and promote transfer to four-year colleges and universities. Umoja-Tumaini targets students who are interested in learning about African American history, literature, and culture. Umoja-Tumaini instructors and counselors use collaborative and other community building strategies to enhance students' learning potential in and out of the classroom. The Program is a learning community and combines elements of counseling and other courses (Student Development, Math and African American History) to assist students with the rigors of college life. The mission of Umoja-Tumaini is to retain students at the community college level, assist students in grading with an associate degree or certificate, and increase transfer readiness to a four-year college or university.

The benefits from Umoja-Tumaini include:

- Fostering high self-confidence and pride in one's cultural heritage;
- Developing critical thinking, reading, and writing skills that are needed for college and future career success;
- Researching occupational interest through various sources;
- Individual and group access to counselors, college workshops, guest speakers, professional mentors, and college tours. Umoja-Tumaini is open to all students.

Valley Bound Commitment

Phone Number: (909) 384-8988

San Bernardino Valley College is proud to announce the Valley-Bound Commitment for 2020-2021. This student success program is for low-income students and is designed to remove economic barriers and strengthen the academic achievement of its participants through a learning community within the First Year Experience program.

Inland Empire-area high school graduates, including AB540 students, who qualify for this life-changing program, will have their enrollment fees and textbooks covered for the first year of attendance at SBVC.

The following high schools are eligible for the Valley-Bound Commitment: Colton, Bloomington, Eisenhower, Rialto, Carter, Arroyo Valley, San Geronio, Pacific, Cajon, San Bernardino, Big Bear, Rim of the World, Grand Terrace, Milor, San Andreas, Washington, and Indian Springs.

Veteran's Resource Center (VRC)

Location: Campus Center (CC) 133

Phone Number: (909) 384-4411

Website

School Certifying Official: veterans@valleycollege.edu
(%20veterans@valleycollege.edu)

San Bernardino Valley College (SBVC) Veteran's Resource Center assists veterans for the following benefit programs:

- Chapter 30 – Active Duty Educational Assistance Program
- Chapter 31 – Veteran's Administration Vocational Rehabilitation
- Chapter 33 – Post-9/11 GI Bill
- Chapter 33TR – Post-9/11 GI Bill Transfer to VA Dependents

- Chapter 35 – Survivors and Dependents Educational Assistance Program
- Chapter 1606 – Selected Reserve Educational Assistance Program

Veterans and/or dependents seeking to use VA Educational Benefits should apply online at www.va.gov (<http://www.va.gov>). If eligible for VA educational benefits, the student will receive two copies of the Certificate of Eligibility (COE). One copy of the COE must be submitted to the Veteran's Services office at the student's home college location and the other copy should be kept by the student for his/her personal records. All Veteran and/or dependent students must follow San Bernardino Valley College's enrollment policies and procedures in order to register into classes.

VRC Resources Include:

- Counseling-Academic & Wellness
- Free Printing/Computer Lab
- GI Bill Certification/VA Liaison
- Graduation Sashes
- Lounge
- Networking
- Scantrons/Green Books/Stationary Supplies
- Tutoring
- Vet Club
- Veteran Work Study

Students must apply online to San Bernardino Valley College and complete any required assessment testing and online orientation. Veterans and/or dependent students are also required to agree and submit a Veteran's Statement of Responsibility every semester to request a benefits certification to the School Certifying Official (%20veterans@valleycollege.edu). Students may also be eligible for other types of financial assistance are encouraged to submit the Free Application for Federal Student Aid (FAFSA) online at www.fafsa.ed.gov (<http://www.fafsa.ed.gov>).

Students must set up an appointment with a VA Educational Counselor to complete our VA Student Education Plan (SEP). Once the VA-SEP has been completed, Veteran's Services will verify that the classes are included on the VA-SEP and certification will be submitted to the VA for benefit processing. If you have questions regarding benefit payments or how to retrieve a copy of your *Certificate of Eligibility*, please contact the VA at (888) GIBILL-1 or visit the website <https://www.ebenefits.va.gov/>. Veteran students may be eligible for priority registration at SBVC. It is the students' responsibility to submit a copy of their DD214 (Service 2 or Member 4 Copy) to the Veteran's Services office to verify eligibility.

Dependent students must complete the admissions process but are not eligible for priority registration. For additional assistance, you may contact the SBVC Veteran's Resource Center or the School Certifying Official (%20veterans@valleycollege.edu).

Welcome Center

Location: AD/SS 102

Phone Number: 909-384-8766

Website

The Welcome Center is a one-stop location where new and prospective students can find information about the college's academic programs, access to computers, and directions to various student support services on campus. Students can also get quick access to class schedules,

registration information, and a variety of campus publications such as the student handbook, maps and the college catalog.

Workability III

Location: Campus Center (CC) 208

Phone Number: 909-384-4429

Website

Workability III (WAIII) is a collaborative program between San Bernardino Valley College and the State of California Department of Rehabilitation (DOR). The program's objective is to assist DOR clients/students develop employability skills and confidence. Clients/students will receive guidance in securing meaningful employment opportunities. The overall goal is "Self-Sufficiency". For more information, or to enroll in the Workability III Program, contact us or visit the CalWORKs & Workforce Development Department.

Workforce Innovation & Opportunity Act (WIOA)/ Employment Development Department (EDD)

Location: Campus Center (CC) 208

Phone Number: 909-384-4429

Website

The Workforce Innovation & Opportunity Act (WIOA) and the Employment Development Department (EDD) in collaboration with San Bernardino Valley College provides educational support services and occupational skills to prepare students to enter or reenter the workforce. For more information, please contact us or visit the CalWORKs & Workforce Development Department.

Financial Aid Programs

Financial Aid

Location: AD/SS 106

Phone Number: (909) 384-4403

Website

The Financial Aid Office provides help in obtaining financial assistance from various federal and state programs. Please see the section on Financial Aid, call, or visit the Financial Aid website for more information.

If a student needs financial assistance to pay for the costs of attending San Bernardino Valley College, the Financial Aid Office can help. While the primary responsibility for meeting college costs rests with the student and the student's family, the college recognizes that many students are not able to meet the full cost of a college education. Therefore, San Bernardino Valley College offers programs to provide assistance for students with documented need who might not otherwise be able to attend.

It is important that students apply for the Free Application for Federal Student Aid (FAFSA) by the priority deadline of March 2nd of each year. The average application can take eight weeks or longer to completely process. Financial aid awards are limited to availability of funds and are awarded on a first-come, first-served basis with priority given to students with the greatest need who apply by the priority deadline of March 2nd. Students may still apply after March 2nd; however processing of the financial

aid applications may take significantly longer the later the application is submitted.

More information about Financial Aid programs is available on the Financial Aid website. After reading through this information, if you still have questions, visit the Financial Aid Office in AD/SS 106. The Financial Aid Office may not give information about your financial aid application status over the phone, in accordance with FERPA regulations. To check the status of your financial aid application you must visit WebAdvisor or come in to speak to a Financial Aid representative.

Eligibility Requirements

Effective July 1, 2012 students must possess either a high school diploma or a GED in order to receive financial assistance. In addition, a student receiving aid must have a stated qualifying educational objective and maintain satisfactory academic progress towards that objective. Federal programs require students to be U.S. citizens or eligible non-citizens. In addition, California grant programs require recipients to be residents of the State of California.

Effective January 1, 2013 AB540 students are eligible to apply for California Financial Aid. AB540 students will need to complete the CA Dream Act Application to determine BOG and/or Cal Grant eligibility. Additionally, AB540 students need to be confirmed AB540 status through the Admissions and Records Office. Please visit the office for additional information regarding eligibility requirements.

Application Procedure

For most student aid programs described in this section, students must complete the Free Application for Federal Student Aid (FAFSA). This application is available online at www.fafsa.gov (<http://www.fafsa.gov>). The Financial Aid Office recommends that students apply online, which can expedite the process by as much as two weeks. Students may use computers in any of the computer labs on campus to access the FAFSA if they do not have access to the Internet at home. Make sure you list San Bernardino Valley College, federal code # **001272** on your FAFSA application to ensure your financial aid information is sent to the SBVC Financial Aid Office. We cannot process applications that do not list the correct federal school code.

Applications for each new academic year will be available in October. Financial aid is not continued from one year to the next, therefore students must complete the FAFSA each school year to apply for financial aid. Deadlines for the various programs may vary; therefore, students are encouraged to visit the Financial Aid website early each January for updated information and changes in regulations, policies or procedures.

Financial Aid Programs

San Bernardino Valley College participates in various financial aid programs, which are summarized below. Additional information regarding each of the programs is available on the Financial Aid website.

California College Promise Grant (CCPG)

Formerly The Board of Governors Fee Waiver (BOG)

The California College Promise Grant program is available to qualifying California residents. The California Promise Grant waives mandatory enrollment fees and a portion of the parking permit fee. The California College Promise Grant does not apply to class material fees or College Service fees. Students are responsible for making sure all fees have been paid. To apply for the California College Promise Grant, fill out the FAFSA

application (Dream Act application, if applicable) online. The Financial Aid Office will receive the results of the FAFSA and Dream Act Applications and award the California College Promise Grant automatically to eligible students. Receipt of the FAFSA application results will also determine eligibility of other types of financial assistance. Students may be eligible for a fee waiver, even when determined not eligible for other types of financial aid. Applicants only need to apply once to have fees waived for the entire academic award year.

New California College Promise Grant Changes – Effective Fall 2016

New regulations from the California Community College Chancellor's Office will affect the student CA College Promise Grant program and Priority Enrollment.

- Loss of Promise Grant/Priority Enrollment will occur if a student has two consecutive semesters (excludes Summer session) of not meeting Academic (2.0 GPA or above) or Progress standards (more than 50% Completion Rate) and placed on Academic Dismissal.
- Students will have the right to appeal the loss of their Promise Grant and Priority Enrollment.
- Students will have their Promise Grant/Priority Enrollment reinstated if one of the following applies:
 - Meeting Academic Progress Standards
 - Successful Appeal
 - Sitting out two consecutive primary terms

Meet with your program counselor to review your academic standing!

Cal Grant

The Cal Grants are state funds awarded to selected eligible students. Cal Grant recipients are selected by the California Student Aid Commission (CSAC). To apply for the Cal Grant Program, a student must submit their FAFSA or Dream Act Application, and a Cal Grant GPA Verification form to CSAC by the March 2nd priority deadline. Valley College participates in the Cal Grant B and C awards. To find out more information, visit www.csac.ca.gov (<http://www.csac.ca.gov>).

California Chafee Grant

The California Chafee Grant provides up to \$5,000 per year for eligible students who are current or former foster youth to use for career and technical training or college courses. For more information on the CHAFEE grant program, visit: <https://www.chafee.csac.ca.gov/>

Federal Pell Grant

The Federal Pell Grant is need-based and awarded to eligible undergraduate students. In most cases, this grant does not need to be paid back. You are automatically considered for the Pell Grant when you apply and file your FAFSA application. The Federal Pell Grant may be used for tuition, fees, books, transportation, and living expenses. Initial awards are estimated based on the results of the FAFSA application. Actual disbursement of the Federal Pell Grant will not be determined until your file is completed and enrollment status has been verified.

Federal Supplemental Education Opportunity Grant (FSEOG)

The FSEOG program provides federal grants to supplement the Federal Pell Grant. The average grant for San Bernardino Valley College students is \$1,000. Students must be eligible for a Pell Grant and have exceptional need.

Federal Work-Study

Federal Work-Study offers students the opportunity to earn funds to help cover their educational expenses through part-time employment during the school year. The average maximum award is \$3,000 per year. Federal Work Study awards are determined by financial need and are available to students enrolled in six (6) or more units per semester.

Full Time Student Success Grant (FTSSG)

The FTSSG is awarded to students who have been awarded a CalGrant B or CalGrant C award and who are enrolled in 12 or more units.

Student Success Completion Grant (SSCG)

The SSCG is awarded to students who have been awarded a Cal Grant B or Cal Grant C award and who are enrolled in 12 or more units. The intent of the program is to support student persistence, retention and success by providing students enrolled in a minimum of 12 units per term additional assistance in order to complete their programs in 'scheduled timeframes'. Due to limited funding, the Student Success Completion Grants (SSCG) are awarded on a first, come first serve basis. To be eligible for the Student Success Completion Grant (SSCG), a student must be a Cal Grant recipient in the fall and/or spring semester, be enrolled in at least 12 units per term, maintain a cumulative Grade Point Average (GPA) of at least a 2.0 and maintain pace and adhere to his or her qualifying comprehensive Student Education Plan, and have financial need. In addition to the Cal Grant B or C award paid at community colleges, the Student Success Completion Grant pays full-time Cal Grant B or C recipients a maximum of \$1,298 annually at \$649 per semester for eligible students who enroll and attend 12 through 14.99 units per term and a maximum of \$4,000 annually at \$2,000 per semester for eligible students who enroll and attend 15 units or more per term.

Financial Aid Refund Policy (R2T4)

San Bernardino Valley College will determine the amount of federal financial aid that a student has "earned" in accordance with federal regulations. The Financial Aid Office uses a federal formula to determine how much aid a student earned based on his/her last day of attendance. Students who receive federal financial aid and do not begin attendance in any of their classes will be required to repay all of the funds they received. Students who withdraw from classes will have their financial aid eligibility recalculated based on the percentage of the semester completed, and will be required to repay any "unearned" financial aid they received. At San Bernardino Valley College, a student's withdrawal date is:

- The date the student officially notified the Admissions Office of his or her intent to withdraw;
- The midpoint of the semester for a student who leaves without notifying the college;
- The student's last date of attendance at a documented academically related activity.

Satisfactory Academic Progress Requirements

All students receiving financial aid are required to maintain satisfactory academic progress. Satisfactory Academic progress will be monitored at the end of each semester, beginning Fall 2015, for all Financial Aid students based on the SBVC Satisfactory Academic Policy. Per federal regulations, this policy must apply to all students whether or not they were recipients of financial aid previously at SBVC or any other college or university. If a student was awarded financial aid and is later determined ineligible based on not meeting Satisfactory Academic Progress, all previously awarded aid

will be withdrawn. The Satisfactory Academic Progress policy can be found on the Financial Aid website.

Student Rights and Responsibilities

Academic Records

Student academic records are treated in a confidential and responsible manner as required by the Family Educational Rights and Privacy Act of 1974 (FERPA). Students have:

1. The right to inspect and review their education records within 45 days of the day the College receives a request for access.

A student should submit to the Director of Admissions and Records, a written request that identifies the record(s) they wish to inspect. The Director will arrange for access and will notify the student of the time and place where the record(s) may be inspected. If the records are not maintained by the Admissions and Records Office, the Associate Dean will advise the student of the correct official to whom the request should be addressed.

2. The right to request the amendment of the portions of their education records that they believe are inaccurate or misleading.

Students should write to the Director clearly identifying the part of the record they want changed, and specifying why it is inaccurate or misleading. If the college decides not to amend the record as requested by the student, the college will notify the student of the decision and will advise the student of their right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent.

One exception that permits release of student records without written consent is disclosure to school officials with legitimate educational interests. A "school official" is defined as a person employed by the college in an administrative, supervisory, academic, research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the college has contracted (such as an attorney, auditor, or collection agent); a member of the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a "legitimate educational interest" if the official needs to review an education record in order to fulfill professional responsibility.

4. Students have the right to file a complaint with the U.S. Department of Education concerning alleged failures by San Bernardino Valley College to comply with the requirements of FERPA.

The name and address of the Office that administers FERPA:
 Family Policy Compliance Office
 U.S. Department of Education
 400 Maryland Avenue, SW
 Washington, DC 20202-8520

Academic Dishonesty

It is the belief at San Bernardino Valley College that students share a responsibility with their instructors for assuring that their education is honestly attained. In keeping with this belief, every instructor has the responsibility and authority to deal with any instances of plagiarism, cheating and/or fabrication that occur in the classroom. This policy on Academic Dishonesty applies to all students, including students taking

online and hybrid classes. Examples of academic dishonesty include (but are not limited to) the following:

Plagiarism

Plagiarism is the act of presenting someone else's work as one's own.

Examples include:

- Copying and pasting text from websites or other electronic sources and presenting it in an assignment as your own original work;
- Copying and pasting text from printed sources (including books, magazines, encyclopedias or newspapers) and presenting it in an assignment as your own original work;
- Using another student's work and claiming it as your own original work (even if you have the permission of the other student).

Cheating

Cheating is the act of pretending (or helping others to pretend) to have mastered course material through misrepresentation.

Examples include:

- Copying from another student's test or assignment.
- Allowing another student to copy from your test or assignment;
- Using the textbook, course handouts, or notes during a test without instructor permission;
- Stealing, buying or otherwise obtaining all or part of a test before it is administered;
- Selling or giving away all or part of a test before it is administered;
- Having someone else attend a course or take a test in your place;
- Attending a course or taking a test for someone else;
- Failing to follow test-taking procedures, including talking during the test, ignoring starting and stopping times, or other disruptive activity.

Fabrication

Fabrication is the intentional use of invented information. Examples include:

- Signing a roll sheet for another student;
- Giving false information to college personnel;
- Answering verbal or written questions in an untruthful manner;
- Inventing data or sources of information for research papers or other assignments.

As members of the San Bernardino Valley College learning community, students are not to engage in any form of academic dishonesty. Any act of academic dishonesty will be considered a very serious offense that is subject to disciplinary action. The consequences of academic dishonesty may include receiving a grade of "F" for a class or possible expulsion from the college.

Substance Abuse

The San Bernardino Community College District strives to maintain a workplace free from the illegal use, possession or distribution of controlled substances as defined in the Controlled Substances Act. Students, employees and visitors are subject to applicable legal sanctions under local, state or federal law for the unlawful possession or distribution of illicit drugs and alcohol. Disciplinary action will be imposed on a student for misconduct for the following infractions while attending college classes or college-sponsored events:

- The use, sale or possession of illegal drugs;
- The presence on campus of anyone under the influence of drugs or alcohol;
- The use or possession of alcoholic beverages on college property or at any college-sponsored event.

Animals on Campus

The college does not permit staff or students to bring animals on campus, with the exception of “seeing eye” and “hearing ear” and “seizure” dogs and animals used for instructional purposes. At no time should dogs be left in vehicles.

Children on Campus and in the Classroom

All children (with the exception of high school students who have been admitted to the Middle College program) must be accompanied by an adult while on campus. Children are not allowed in the classroom under any conditions and are not to be left unattended in any campus facility. Should this occur, the District Police will be notified immediately.

Computer Use Policy

The San Bernardino Community College District has a Computer Use Policy (AP 3720) that all students and employees are expected to follow. These documents set the foundation for the following items: Ownership Rights, Privacy Interests, District Rights, System Abuse, Misrepresentation, Liability, Harassment, Commercial Use, Fair Use, Software Licensing, Exceptions, Network Access, Media, Social Networking, PDA, and Smartphone. These documents can be found on the District website at: www.sbccd.org (<http://www.sbccd.org>) under Board Policies and Administrative Procedures.

Financial Obligations

Students who have an outstanding financial obligation will not be allowed to register for classes, receive grades, transcripts, diplomas or certificates, obtain enrollment verification or receive any other services normally afforded students in good standing. Examples of obligations falling under this policy include (but are not limited to) returned checks, unpaid loans, equipment breakage, and unpaid library fines. An item or service withheld shall be released when the student satisfactorily meets the financial obligation.

Speech: Time, Place, and Manner

Designated Public Forum (DPF) Areas have been identified throughout the campus. Individuals or organizations wishing to use a DPF must notify the Campus Business Office or the Office of Student Life at least one hour prior to use and fill out a *Free Speech Application*.

In accordance with Education Code Section 76120, the use of Free Speech Areas is subject to the following:

- Persons using the DPF area(s) and/or distributing material in the DPF area(s) shall not impede the progress of passersby, nor shall they force passersby to take material;
- No person using the DPF area(s) shall touch, strike or impede the progress of passersby, except for incidental or accidental contact, or contact initiated by a passerby;
- Persons using a DPF area shall not use any means of amplification that creates a noise or diversion that disturbs or tends to disturb the orderly conduct of the campus or classes taking place at that time;

- No persons using the DPF area(s) shall solicit donations of money, through direct requests for funds, sales of tickets or otherwise, except where he or she is using the DPF area(s) on behalf of and collecting funds for an organization that is registered with the Secretary of State as a nonprofit corporation or is an approved by Associated Student Government or club;
- All persons using the DPF area(s) of the college shall be allowed to distribute petitions, circulars, leaflets, newspapers, and other printed matter. Such distribution shall take place only within the DPF area(s). Material distributed in the DPF area(s) that is discarded or dropped in or around the DPF area(s) other than in an appropriate receptacle must be retrieved and removed or properly discarded by those persons distributing the material prior to their departure from the DPF area(s) that day.

Posting

Students shall be provided with bulletin boards for use in posting student materials at campus locations convenient for student use. Materials displayed shall be removed after the passage of specified days.

Standards of Conduct

In the classroom: Students are expected to take responsibility for helping to create a quality classroom environment. Students are expected to show:

1. **Respect for the instructor:** This would include arriving on time, staying for the entire class period, bringing assignments, textbooks and other appropriate materials to class, refraining from talking while the instructor or classmates are making a presentation, leaving cell phones and other electronic devices off during class periods, and using a moderate, mature and respectful tone when participating in group discussions.
2. **Respect for other students:** This would include using appropriate language in public areas and refraining from physically or verbally harassing others in any way.

An instructor has the right to remove a student from class any time he or she considers the student's actions to be interfering with a proper collegiate environment. The instructor may also refer the incident to the administration for disciplinary action as warranted.

On the campus: Creating a proper campus environment is also very important for academic and individual success. The Board of Trustees of the San Bernardino Community College District has established district-wide standards of student conduct, which will be enforced at all times. These rules of conduct are particularly important in large common areas such as the cafeteria, bookstore, vending areas, campus quads, and other highly frequented areas.

Grounds for Disciplinary Action

The Chancellor shall be responsible for procedures that impose discipline on students in accordance with due process outlined in federal and state law and regulations. The following behaviors are subject to disciplinary action ranging from verbal reprimand through removal, suspension or expulsion of a student:

- Causing, attempting to cause, or threatening to cause physical injury to another person;
- Possession, sale or otherwise furnishing any firearm, knife, explosive or other dangerous object, including but not limited to any facsimile firearm, knife or explosive, unless, in the case of possession of any object of this type, the student has obtained written permission to

possess the item from a district employee, which is concurred in by the college president;

- Unlawful possession, use, sale, offer to sell, or furnishing, or being under the influence of, any controlled substance listed in Chapter 2 (commencing with Section 11053) of Division 10 of the California Health and Safety Code, an alcoholic beverage, or an intoxicant of any kind; or unlawful possession of, or offering, arranging or negotiating the sale of any drug paraphernalia, as defined in California Health and Safety Code Section 11014.5;
- Committing or attempting to commit robbery or extortion;
- Causing or attempting to cause damage to district property or to private property on campus;
- Stealing or attempting to steal district property or private property on campus;
- Willful or persistent smoking in any area where smoking has been prohibited by law or by regulation of the college or the District;
- Committing sexual harassment as defined by law or by District policies and procedures;
- Engaging in harassing or discriminatory behavior based on race, sex, (i.e., gender), religion, age, national origin, disability, or any other status protected by law;
- Willful misconduct which results in injury or death to a student or to college personnel or which results in cutting, defacing, or other injury to any real or personal property owned by the District or on campus
- Disruptive behavior, willful disobedience, habitual profanity or vulgarity, or the open and persistent defiance of the authority of, or persistent abuse of, college personnel;
- Cheating, plagiarism (including plagiarism in a student publication), or engaging in other academic dishonesty;
- Dishonesty, forgery; alteration or misuse of college documents, records or identification; or knowingly furnishing false information to the District;
- Unauthorized entry upon or use of college facilities
- Lewd, indecent or obscene conduct on District-owned or controlled property, or at District-sponsored or supervised functions;
- Engaging in expression which is obscene; libelous or slanderous; or which so incites students as to create a clear and present danger of the commission of unlawful acts on college premises, or the violation of lawful District administrative procedures, or the substantial disruption of the orderly operation of the District;
- Persistent, serious misconduct where other means of correction have failed to bring about proper conduct;
- Unauthorized preparation, giving, selling, transfer, distribution, or publication, for any commercial purpose, of any contemporaneous recording of an academic presentation in a classroom or equivalent site of instruction, including but not limited to handwritten or typewritten class notes, except as permitted by any district policy or administrative procedure;
- Hazing, defined as including any method of initiation into a student organization or any pastime or amusement engaged in with respect to such an organization that causes, or is likely to cause, bodily danger or physical harm to any student or other person attending any school, college, university or other educational institution in this State;
- Persistent violation of smoking regulations.

SBCCD Board Policy 5500

Types of Disciplinary Action

Students enrolled in the San Bernardino Community College District shall refrain from disruptive conduct which significantly interferes with the instructional program, college activities, or which endangers the health or safety of members of the college, including visitors to the campus. Disruptive conduct on the part of students shall be cause for disciplinary action in accordance with policies adopted by the San Bernardino Community College District Board of Trustees and pursuant to appropriate sections of the Education Code, the Business and Professions Code, the Health and Safety Code, and the Penal Code of California.

Disciplinary Action

1. Disciplinary action for good cause may be imposed upon a student by an instructor, an administrator, or the Board of Trustees for misconduct of any of infractions while attending college classes or college-sponsored activities.
2. **Disciplinary action includes:**
 - a. **Reprimand:** a verbal or written reprimand regarding the misconduct.
 - b. **Probation:** Student conduct probation may include, but is not limited to, ineligibility to participate in extra-curricular activities and certain other student privileges.
 - c. **Suspension:** Exclusion from the colleges and college-sponsored activities for a specified time.
 - d. **Expulsion:** Exclusion by the District Board of Trustees from the college and all college-sponsored activities.

Disciplinary Procedures

Suspension or expulsion of a student in the San Bernardino Community College District shall be accompanied by a formal hearing, unless the student involved waives the right to such a hearing, in accordance with the student due process procedures. The student shall make a decision regarding waiving the right to a hearing within five (5) working days.

SBCCD Administrative Procedure 5500

Student Complaints

Students are encouraged to resolve complaints at the appropriate level of the dispute. Any student complaint about a grade, an instructor, or a course should be first made to the instructor involved. However, should this approach fail or be inappropriate, students may submit a written complaint through the Faculty Chair or the Academic Dean. Once received, the complaint will be forwarded to the appropriate college official for review, and the complaint will receive a response as soon as possible. For matters regarding grade appeals, student grievances, discrimination or sexual harassment, please refer to the college's policies relating to those matters. The Student Complaint process is currently being updated at the time of printing this catalog. For more information on the student complaint process, please refer to the San Bernardino Community college District Board Policies (http://www.sbccd.org/Board_of_Trustees/Policies_-_a_-_Procedures/).

Student Grievance and Due Process

It is the stated policy of the Board of Trustees of the San Bernardino Community College District that, "the relationship between students and college personnel is of vital importance to the learning process." With this principle comes the recognition that there may be many divergent viewpoints and that a process by which these viewpoints can be aired and resolved must be established.

Cause and Filing

Student grievance proceedings may be initiated against a District employee or another student for any of the following reasons:

- Any act or threat of intimidation;
- Any act or threat of physical aggression;
- Any arbitrary action or imposition of sanctions without a proper regard to due process as specified in college procedures.

Notice:

1. Grades are not grievable (see **notation** at end of policy);
2. Sexual Harassment complaints are filed in accordance with Board Regulation 3430 and are not covered under Student Grievances;
3. Discrimination complaints are filed in accordance with Board Regulation 3430 and are not covered under Student Grievances.

Who to File a Grievance With?

A student may submit a grievance to any manager or employee in any area for delivery to the Vice President of Student Services who will assess which manager or vice president is to oversee the grievance process.

Student grievances should be filed with the appropriate college administrator for resolution. Examples are:

- Classroom or teacher-related issues should be submitted to the Vice President of Instruction, or designee;
- Student service or counseling-related issues should be submitted to the Vice President of Student Services, or designee;
- Building, grounds, cashiering, mailroom, switchboard, food services or police-related issues should be submitted to the Vice President of Administrative Services, or designee.

Time for Filing a Grievance Notice

The appropriate vice president, district manager, or designee will accept a formal written student grievance when submitted within 180 calendar days of the event's occurrence and under the provisions specified. A grievance may be denied if the events occurred more than 180 calendar days prior to the date in which the grievance was filed in writing.

Student Status for Filing a Grievance

Only registered students may file a student grievance. Non-student grievances may be considered by the designated vice president or manager if the grievance is a result of a dispute arising out of the registration or enrollment process and the grievance is filed within thirty calendar days of the alleged incident.

Group Grievance

If more than one student files a grievance against an individual on the same issue or situation, members of the group shall select one person to serve as spokesperson/representative for the entire group.

Informal Student Complaint Resolution Process (Non-Written)

Step 1: Every effort shall be made to resolve a student complaint at the lowest level possible. A student must first attempt to resolve the issue directly. If this is not practical or possible, or due to the nature of the problem, or failing a resolution the grievance progresses to Step 2.

Step 2: A student who is not satisfied with the Step 1 outcome may next attempt to resolve the alleged problem by conferring with the immediate

supervisor of the employee with whom the initial conference was held. If the grievance is alleged against another student, Step 2 would be taken to the Disciplinary Officer. Upon such a request, the administrator shall inform and confer with any employee or student named by the student. In turn, the administrator shall schedule a meeting with the grievant and if requested, all involved parties, not more than ten (10) school days from the date of the initial request.

Formal Procedures

If the alleged problem is not resolved at the Informal Level, the student may request a formal hearing in writing with the appropriate vice president or designee. This written notice shall state the conditions, practice, alleged act, or injustice that is being grieved, the date(s) of the alleged occurrence and should, if possible, include a proposed remedy or resolution to the problem.

Step 1: Within three (3) working days of receipt of the written student grievance notice, the appropriate Vice President or designee shall determine if the allegations were filed in a timely manner and meet the criteria outlined. If the student grievance notice fails to meet the above criterion, the Vice President shall notify the student of this determination and the grievance shall be terminated. If the student grievance notice is not terminated, the Vice President shall appoint a Student Grievance Hearing Committee within five (5) working days.

Step 2: Any employee who has conferred with a student who requests a hearing shall prepare a written account of the discussion, which shall be forwarded, to the appropriate Vice President or designee.

Step 3: The student and any college personnel or student involved in the allegations shall be notified of a hearing and the time and place of the hearing in writing. The notice shall include the names of the Hearing Committee and all documentation relating to the allegation(s).

Step 4: The Hearing Committee shall consist of either a maximum of two faculty or two classified staff members, based on the nature of the classification of staff involved, two students, and one administrator to hear the grievance. The administrator where the issue relates shall serve as chairperson of the hearing committee.

Hearing Procedures

1. The hearing shall convene within ten (10) working days of the receipt of the student grievance notice unless mutually agreed upon for a delay.
2. The hearing shall be closed unless the District employee or student against whom the grievance is brought requests that it be open.
3. The following persons should be present:
 - The Hearing Committee
 - The student grievant and non-legal representative/advocate if any
 - The college employee or student against whom the grievance is brought and a representative of the appropriate bargaining unit, if any
 - Witnesses, while presenting testimony.
4. Both parties shall notify the appropriate Vice President or designee, in writing within three (3) working days of the hearing if he/she will be accompanied by a representative/advocate. Such notification shall include the name and title of the representative. The Committee Chairperson shall be obligated to immediately notify the parties directly involved.
5. Although minutes will be taken at the hearing to provide a written record, if all parties agree the hearing may also be tape-recorded.

6. All participants in a hearing shall be advised by the Committee Chairperson that the proceedings are confidential.
7. Witnesses shall not be required to testify under oath; however, witnesses shall be advised that false testimony will constitute grounds for college disciplinary action.
8. The proceedings will not be bound by formal rules of evidence nor trial-like procedures. Rather, the procedures will be those upon which reasonable persons would rely in the conduct of serious affairs. The Committee Chairperson shall rule on all procedural issues. If substantive or procedural issues arise during the hearing that require external assistance for resolution, the Hearing Committee Chairperson should recess the hearing and submit the issue to the college president for resolution.
9. Evidence and/or testimony, which may be irrelevant or unduly repetitious, may be so noted by the Committee Chairperson.
10. The burden of proof to sustain a grievance rests with the student.
11. If the grievant fails to appear at the time and place scheduled for the hearing, and fails to notify the committee of the circumstances the grievance will be considered to have been withdrawn and procedures will be terminated. Depending on the nature of the circumstances, the committee shall determine if the hearing should be rescheduled within a reasonable time period. It is recommended that the defendant participate in the hearing.
12. Upon conclusion of the hearing, within five (5) working days, the Committee Chairperson shall submit to the Vice President a written report. The report shall include:
 - A brief summary of evidence submitted;
 - A finding of facts, supported by a preponderance of the evidence;
 - A recommendation that the grievance be sustained or denied; and
 - In the event the recommendation is to sustain the grievance, a recommendation of appropriate corrective action.
13. Upon review of the Hearing Committee's report, the Vice President or designee shall make a final determination.

Notification

Within five (5) working days following receipt of the report of the Hearing Committee chairperson, the Vice President or designee shall provide a written notification to the student/s and to the employee/s directly involved in the issues as to the final determination.

Appeal to President

If either the complainant or accused is not satisfied with the final college-level disposition of the grievance, the party may, within ten (10) working days, appeal the decision to the College President. The basis of appeals are:

- All parties shall be notified by the President of the appeal.
- The President shall provide written notification to the student and to other parties directly involved in the issues as to his/her recommendation within five (5) working days.

Appeal to the Chancellor

If either party is not satisfied with the final college-level disposition of the grievance, he/she may, within ten (10) working days, appeal (state the basis of the appeal again) the decision to the Board of Trustees through the District Chancellor. All parties shall be notified by the Chancellor of the appeal. The Chancellor shall report the grievance in closed session to the Board of Trustees for final determination. The Chancellor shall provide written notification to the student and to other parties directly involved in

the issues as to his/her recommendation within five (5) working days. The determination of the Board of Trustees is final.

General Provisions

1. The time limits specified in this procedure may be shortened or extended if there is mutual written concurrence between the parties.
2. At any step of the grievance procedure, the college President may designate a substitute for the designated college officials.
3. Failure of the student grievant to appeal a grievance determination at any step to another step within the specified time limits shall be deemed as acceptance of the last determination rendered.
4. It is the intent of this policy that the confidentiality of the discussions, including any documents or written records, be maintained by the participants.
5. It will not be mandatory for any staff member to attend the student grievance meetings nor will the student grievance procedure supersede staff member's contractual rights.

Grade Appeal Process

Any student complaint about a grade should first be made to the instructor involved. All attempts should be made to resolve the grade dispute at the lowest level. (Please see Student Complaints section for additional information).

By law, the instructor is solely responsible for the grades assigned in courses; no instructor may be directed to change a grade except in cases of mistake, fraud, bad faith, or incompetence as authorized by the California Education Code, Section 76224 (a).

To appeal a grade, the student must provide evidence that the instructor issued a grade in:

1. Mistake – unintentional error on part of the instructor
2. Fraud – intentional misrepresentation of any or all facts, which lead to a negative outcome
3. Bad faith – any other intentional act of the instructor, which negatively impacts the grade of the student
4. Incompetency – there is evidence that the instructor does not have the knowledge, skills, and/or abilities to conduct and fairly grade the course. Incompetence is usually pervasive, and not restricted to one student or one incident.

Grade appeals with supporting documentation must be submitted with the Student Grade Appeal form to the Director of Admissions and Records. The student must provide evidence that one of the four conditions listed above (mistake, fraud, bad faith, or incompetency) resulted in the assignment of the grade in question. The burden of proof in this process lies with the student. The Director of Admissions and Records, in consultation with the Vice President of Instruction, will make a thorough review of the grade appeals documentation provided by the student within 30 working days. If warranted, the student's appeal will be forwarded to a hearing committee for review.

Student Success and Support Program (SSSP)

Student Success and Support Program is a process designed to assist students in accomplishing their educational goals. The process brings the college and the student into an agreement for the purpose of realizing

the student's educational goal. The primary purpose of SSSP is student success.

The college agrees to provide:

- Admissions application process.
- Orientation to the college's programs and services,
- Assessment of the student's study skills, English language proficiency, computational skills, goals, career aspirations, academic performance, and need for special services,
- Counseling and advisement to develop a Student Education Plan (SEP) and follow-up evaluation of each student's progress in achieving an educational goal.

The student agrees to:

- Express at least a broad educational intent upon admission,
- Declare an educational goal by the time the student has completed 15 units,
- Attend class,
- Work diligently to complete course assignments,
- Demonstrate an effort to attain an educational goal,
- Meet with a counselor to develop a Student Education Plan (SEP) that will meet his/her unique needs.

SSSP goals are partially fulfilled through the SDEV 001 class. Students who intend to graduate from San Bernardino Valley College are required to complete SDEV 001 during the first two semesters in which they are enrolled in nine (9) or more units.

Students may be exempt from this requirement upon completion of 30 plus units of college credit or AA/AS, and/or AA-T /AS-T degree. Additionally, career track students with vocational disciplines may apply for an exemption through the Department Chair or Division Dean of the area of study.

ACADEMIC PROGRAMS AND SERVICES

- Academic Success Centers (<http://catalog.valleycollege.edu/academic-programs-services/academic-success-center/>)
- Guided Pathways (<http://catalog.valleycollege.edu/academic-programs-services/guided-pathways/>)
- Library (p. 43)
- Middle College High School Program (p. 43)
- Online Education (p. 43)
- STEM Program (p. 43)
- Student Awards and Honors (p. 42)
- Valley Now! (<http://catalog.valleycollege.edu/academic-programs-services/valley-now/>)
- Writing Center (p. 44)
- Zero Textbook Cost Degree Program (Z DEGREE) (p. 44)

Student Awards and Honors Academic Recognition Programs

Recognition for outstanding academic achievement is given in the following ways:

Dean's List

Outstanding scholastic achievement by San Bernardino Valley College students is recognized through the *Dean's Honors List*. The *Dean's List* is generated twice in each academic year, once during the Fall semester and once during the Spring semester. This scholastic recognition is based on GPA earned during the prior semester as opposed to a cumulative GPA. To qualify for the *Dean's List*, students must complete 12 units of college-level courses during the prior semester. (Units earned through credit-by-examination will be counted when determining eligibility.) Courses taken on a "Pass/No Pass" basis and/or courses numbered in the 900s that do not apply toward a degree are not included when evaluating whether a student has met the 12-unit requirement. Qualifying students will be included on the *Dean's List* in the following categories:

- **Highest honors** for students earning GPAs between 3.90 and 4.00.
- **Honors** for students earning GPAs between 3.70 and 3.89.
- **Distinction** for students earning GPAs between 3.50 and 3.69.

Graduating with Honors

Students who complete 60 units and who graduate with cumulative GPAs in the above three categories will be honored at graduation with special mention in the graduation program. No more than 15 units of course work graded on a Pass/No Pass basis will be included in this 60-unit requirement.

Students completing their associate degrees with an overall GPA of 3.0 are eligible to wear a gold cord at graduation. Students completing their vocational certificates with an overall GPA of 3.0 or above are eligible to wear a gold cord at graduation. Cords can be picked up in the Bookstore prior to graduation.

Alpha Gamma Sigma

Students who have a cumulative grade point average of 3.00 or higher may join Alpha Gamma Sigma, the California Community College Honor Scholarship Society.

For information, please see our website at: www.valleycollege.edu/current-students/clubs/alpha-gamma-sigma (<http://www.valleycollege.edu/current-students/clubs/alpha-gamma-sigma/>)

Honors Program

The mission of the Honors Program is to provide students with a rigorous learning experience that encourages independent and creative thought, to enhance students' critical reading, writing and thinking abilities as tools for achieving further academic success, and to prepare students for transfer to four-year institutions and to remain in the academic honors track.

Students involved in the Honors Program have the opportunity to develop unique links with UCLA, UC Irvine, UC Riverside, Cal Poly Pomona, Pepperdine University, UC Santa Cruz, and Chapman University including:

- Priority admission consideration,
- Priority scholarship consideration,
- Privileges such as use of the libraries,
- Opportunities to attend academic, cultural, and athletic events, campus tours, and the Honors Transfer Day.

Admission to the Honors Program is open to all students. Students who complete the Honors Program will receive a special seal on their transcripts and diploma, and an Honors Program medallion. To complete the program, a student admitted to the Honors program must:

1. Complete a minimum of 15 units of honors classes;
2. Maintain and graduate with an overall 3.5 GPA in all college coursework.

The honors courses range from one to five units. Most courses are accepted by the University of California and California State University systems, and most can be used to satisfy general education requirements. Students who qualify for the Honors Program may register for any of the following honors courses:

Code	Title	Units
ANTHRO 102H	Cultural Anthropology - Honors	3
ANTHRO 106H	Biological Anthropology - Honors	3
ARCH 145H	History of Architecture: Early Design Through Gothic - Honors	3
ARCH 146H	Architecture History: Renaissance to Modern - Honors	3
ART 102H	Art History: Renaissance to Present - Honors	3
BIOL 109H	History of Life - Honors	4
CD 105H	Child Growth and Development - Honors	3
COMMST 100H	Elements of Public Speaking - Honors	3
ECON 200H	Principles of Macroeconomics - Honors	3
ECON 201H	Principles of Microeconomics - Honors	3
ENGL 101H	Freshman Composition-Honors	4
ENGL 102H	Intermediate Composition and Critical Thinking - Honors	4
ENGL 151H	Freshman Composition and Literature - Honors	3
ENGL 270H	English Literature: Middle Ages to 18th Century - Honors	3

ENGL 271H	English Literature: 18th Century to Present - Honors	3
GEOG 111H	Physical Geography Laboratory - Honors	1
HIST 100H	United States History to 1877 - Honors	3
HIST 101H	United States History: 1865 to Present - Honors	3
MUS 121H	Music History and Literature - Middle Ages Through Baroque - Honors	3
MUS 122H	Music History and Literature - Classic Through Contemporary - Honors	3
PHIL 101H	Introduction to Philosophy - Honors	3
POLIT 110H	Introduction to Political Theory - Honors	3
POLIT 138H	Service Learning: Student Leadership - Honors	3
POLIT 139H	Service Learning: Community Leadership - Honors	3
POLIT 141H	Introduction to World Politics - Honors	3
PSYCH 100H	General Psychology - Honors	3
RELIG 100H	Introduction to Religious Studies-Honors	3
SOC 100H	Introduction to Sociology - Honors	3
SOC 110H	Social Problems - Honors	3
SPAN 101H	College Spanish I - Honors	5
SPAN 102H	College Spanish II - Honors	5
SPAN 103H	College Spanish III - Honors	4

For a complete course description of any of these courses, refer to the specific department listing in this catalog.

Students who would like to take a single honors course without fully participating in the Honors Program may enroll after satisfactorily demonstrating skill or aptitude in the discipline covered by that honors course. The prerequisite(s) for each course must be met by the individual student. Visit the Honors Program website (<https://www.valleycollege.edu/academic-career-programs/specialized-programs/honors-program/>) for additional information.

Library

Hours: When classes are in session:

Monday-Thursday 7:30-8:00

Friday 7:30-5:00

Saturday 10:00-2:00

Phone Number: (909) 384-4448

Website: (<https://library.valleycollege.edu/>)

The SBVC Library houses a collection of more than 70,000 volumes, searchable by author, title and/or subject – along with more than 200,000 eBooks and articles. The Library also subscribes to numerous full-text research databases, accessible from any computer on campus, and from off campus with passwords found in Canvas.

The Library Computer Lab provides currently enrolled students with 120 computers as well as cash/coin-operated printers and photocopiers. Computer technicians are available to provide basic technical support. Faculty librarians provide one-on-one research assistance, orientations, workshops and information literacy instruction. For research assistance at any time, day or night, the Library participates in the Ask-A-Librarian online chat reference service. Books and other items in the general collection normally circulate for 3 weeks. Textbooks and other reserve

items (available at the Circulation Desk) normally circulate for 2 hours, and are limited to in-library use.

Middle College High School Program

Location of High School: 1260 W Esperanza St, San Bernardino, CA 92410

Middle College High School: (909) 888-4041

Location of Program Office at SBVC: North Hall (NH) 139

SBVC Phone Number: (909) 384-4431

Website (<https://www.valleycollege.edu/academic-career-programs/specialized-programs/middle-college-high-school/>)

Middle College High School is one of the top-performing schools in the Inland Empire and California. Middle College made its debut in San Bernardino in 2001 as an alternative educational experience for students who were not working to their full potential. The program serves many students who are first in their families to go to college or are considered underserved minorities. Located adjacent to San Bernardino Valley College, students take high school courses in the morning and college courses during the day and/or evenings. Students have the opportunity to work towards a goal of achieving their high school diploma alongside obtaining credits to apply towards their Intersegmental General Education Transfer Curriculum (IGETC) as well achieving an associate degree. The school serves about 300 students in 9th through 12th grade, all who are selected from the San Bernardino City Unified School District. The students engage in application and interview process in order to be selected to the program. The program itself is designed to create an environment where students thrive academically and develop a keen sense of responsibility as both college and high school students.

Online Education

Website (<https://www.valleycollege.edu/online-classes/>)

The office of Online Education coordinates all courses, which are computer based in their delivery (to include Hybrid courses) and are available to the students of Crafton Hills College in Yucaipa and San Bernardino Valley College in San Bernardino. Online and hybrid courses require accessibility to a computer system with an Internet connection and may have meetings on campus. Fees and academic credits are the same as equivalent traditional classroom courses.

STEM Program

Location: Physical Science (PS) 138 and 140

Phone Number: (909) 384-4463

Website (<http://www.sbvstem.org>)

The STEM (Science, Technology, Engineering and Mathematics) Program is housed under the Student Success Center. The program is designed to assist low income and other traditionally underrepresented students and prepare them to pursue diverse careers in various STEM fields. It assists students in Math and Science courses and prepares them to transfer to four-year universities.

The benefits of the program include:

- Petition-Granted Accelerated Math Cohort Courses (962, 090-095, 095-102, 103-151)
- S-STEM Scholarships to CSUSB
- Specialized Workshops, Events, and Fieldtrips
- Instructor led Ted-Talks and Math and Science Mentors

- Dedicated Counseling for STEM Majors
- Mid-term and Final Pizza Study Jams

Writing Center

Location: Liberal Arts (LA) 201

Phone Number: (909) 384-4464

Website

The Writing Center helps students at all levels and from all disciplines to improve their writing. The Center houses an experienced staff of writing consultants who are available for one-on-one writing conferences with students. In addition, the Center offers ESL conversation groups that meet weekly to explore language issues that challenge non-native speakers of English and schedules workshops through the year that focus on various aspects of the writing process. For more information, or to schedule an appointment with a writing consultant, visit the Writing Center or call.

Zero Textbook Cost Degree Program (Z DEGREE)

Location: Physical Science (PS) 116

Phone Number: (909) 384-8653

Website (<https://www.valleycollege.edu/open-education-resources/students/zero-cost-textbook-classes.php>)

Zero Textbook Cost Degree Program (Z Degree) is one of the Open Educational Resources (OER) initiatives to improve teaching, learning and accessibility for all learners at California Higher Education institutions. San Bernardino Valley College is one of 20 California Community Colleges to be awarded the Implementation Phase II RFA for 2017/2018. The Z Degree Pathway is earned entirely by completing courses that eliminate conventional textbook costs by using alternative instructional materials and methodologies, including open educational resources (OER) (Definition by CA Education Code Section 78052(a)).

This program is designed to improve student success by providing students access to a textbook-free Associate of Arts (AA) degree in Liberal Arts with an emphasis in Social and Behavioral Sciences. The course sections in this AA degree exclusively use digital or other instructional materials that are free of charge. However, low-cost options for print versions may also be available, based on student preference. In addition, a dedicated counselor will provide academic support and resources to assist students in successful degree completion. Please refer to the Liberal Arts - Social and Behavioral Science Associate of Arts Degree (p. 226) for program requirements.

GENERAL EDUCATION AND GRADUATION REQUIREMENTS

- Philosophy of General Education (p. 45)
- Graduation Catalog Rights (p. 45)
- Associate Degree Graduation Requirements (p. 45)
- Vocational Certificate Programs (p. 50)
- Transfer Information (p. 50)

Graduation Requirement Exceptions

When a student has a deficiency in one or more of the areas required for graduation, he/she has the option of filing a *Petition for Academic Exception*, which is available in the Admissions and Records Office (AD/SS 100). The Scholastic Standards Committee will consider each petition based on its overall individual merit.

Philosophy of General Education

General Education provides students the means to comprehend the modern world. Toward that end, General Education provides students learning experiences meant to develop such abilities as being able to think critically, communicate clearly, use science and technology, and possess the basic principles, concepts, and methodologies both unique to, and shared by, various disciplines. General Education prepares students from diverse communities to live in and contribute to a complex, changing, multicultural, and diverse world. Most importantly, General Education creates a strong foundation in both breadth and depth upon which students can continue to develop an understanding of their specific interests, environments, and disciplines through productive lifelong learning.

Successful completion of approved programs at San Bernardino Valley College may lead to:

- Completion of lower division (freshman and sophomore) requirements for transfer to upper division (junior) standing at a four-year college or university;
- An *Associate of Arts* or *Associate of Science* degree;
- A *Certificate of Completion* in a specific occupational field.

Even though these objectives are listed separately, it is possible to achieve all three concurrently during the first two years of college. For example, it is possible to use the coursework completed for a certificate program as a major for an associate degree. Similarly, students completing lower division requirements for transfer to a four-year college or university will find it possible to meet the requirements for an associate degree from San Bernardino Valley College.

Students are encouraged to work with a counselor to develop an **educational plan**¹ to meet educational goals in a time-effective manner.

¹ See Student Success and Support Program (SSSP) (p. 40) for details.

Graduation Catalog Rights

A student may elect to meet graduation requirements in any one of the following ways:

1. Catalog Rights at the time the student begins at SBVC without interruption, or

2. The student who drops out for two or more consecutive semesters is subject to the requirements in the catalog at the time of reentry, or
3. The catalog in effect at the time the graduation petition is submitted.

Note: Summer session course requirements are included in the catalog of the previous academic year.

Associate Degree Graduation Requirements

Graduates from San Bernardino Valley College (SBVC) receive an Associate of Arts degree or an Associate of Science degree. To earn an Associate degree, students must complete general education breadth requirements as specified in Option #1 or Option #2 below, as well as additional units of electives and/or lower division requirements for a major.

Students must file a Graduation Application in the Records Office by the deadlines listed below:

Graduation	Application Deadline
Fall Graduation	October 1
Spring Graduation	March 1
Summer Graduation	July 1

When printed deadlines fall on either Saturday or Sunday, the filing period will be extended to the Monday following the deadline date.

Associate Degree: Option #1

The Option 1 associate degrees are general degrees designed for students who plan to attend a four-year college or university.

Associate Degree: Option 1A

The general education breadth requirements are the same as the requirements for the *Intersegmental General Education Transfer Curriculum* (IGETC). Refer to section of the catalog for the IGETC requirements (p. 56). In the process of completing this coursework, the student must fulfill these general requirements:

1. Complete a minimum of 60 transferable semester units of college coursework, with at least 12-degree applicable semester units in residence at SBVC.
2. Earn a letter grade of C or higher in each course.

Associate Degree: Option 1B

The general education breadth requirements for this degree are the same as the requirements for the *California State University General Education Breadth Requirements* (CSU GE-Breadth). Refer to section of the catalog for the CSU GE-Breadth requirements (p. 52). In the process of completing this coursework, the student must fulfill these general requirements:

1. Complete a minimum of 60 transferable semester units of college coursework, with at least 12-degree applicable semester units in residence at SBVC.
2. Earn at least a 2.0 grade point average for the CSU GE coursework. Earn a grade of C- or better for each course in the Oral Communication, Written Communication, Critical Thinking and Mathematics/ Quantitative Reasoning categories.

Associate Degree: Option #2

This general Associate Degree is designed for students planning to seek immediate employment after graduation. The general education breadth requirements for this degree are listed below. In the process of completing this coursework, students must fulfill these general requirements:

- Complete SDEV 001 (formerly LST 001) is required of all students taking nine (9) or more units per semester. This course must be completed within a student's first two semesters of coursework.
 - Exempt from this requirement upon completion of 30+ units of college credit or AA/AS degree or BA/BS degree.
 - Career-track students with vocational disciplines, which have articulated programs with four-year colleges or universities, apply for an exemption through the Department Chair or Division Dean of the area of study.
- Complete a minimum of 60 semester units of college coursework, with at least 12-degree applicable semester units in residence at SBVC.
- Earn an overall grade point average of C (2.00) or higher.
- Complete coursework for an Associate of Arts or an Associate of Science major as listed in Part IV of the *San Bernardino Valley College Catalog*. Note: you must declare a major in order to receive a degree. All courses used to satisfy the majors for the Associate degrees must be completed with a grade of "C" or higher.
- Demonstrate competency in English, mathematics and reading by satisfying the following criteria:
 - Competency in English as demonstrated by completion of ENGL 101 or ENGL 101H with a grade of C or higher.
 - Competency in mathematics as demonstrated by:
 - Completion of MATH 095 or MATH 096, or a higher level course in mathematics with a grade of C or higher, or a course from another college with a minimum of three semester units, *or*;
 - Completion of a mathematics proficiency examination, which is equivalent to a comprehensive final examination in MATH 095 or MATH 096 with the equivalent to a grade of C or higher.
 - Competency in reading as demonstrated by:
 - Completion of READ 015 with a grade of C or higher, or assessment into READ 100, *or*;
 - Completion of all courses required to satisfy minimum graduation requirements in Categories I, II and III as listed below with an overall grade point average of 2.00 or higher.
- Complete 24 to 26 of the 60 semester units needed for graduation from the five subject categories as listed below:

Category I: Natural Science

(Minimum: 4 semester units if a laboratory is included; otherwise 6 semester units).

Courses in the following subjects carry credit for Natural Science:

Code	Title	Units
ANTHRO 106	Biological Anthropology	3
or ANTHRO 106H	Biological Anthropology - Honors	
ANTHRO 106L	Biological Anthropology Laboratory ¹	1
ASTRON 120	Introduction to Astronomy	3
ASTRON 125	Astronomy Laboratory ¹	1
BIOL 100	General Biology ¹	4
BIOL 102	Human Biology	3

BIOL 104	Human Ecology	3
BIOL 109	History of Life ¹	4
or BIOL 109H	History of Life - Honors	
BIOL 141	Genetics	3
BIOL 155	Introductory Anatomy and Physiology ¹	4
BIOL 205	Cell and Molecular Biology ¹	4
BIOL 206	Organismal Biology ¹	4
BIOL 207	Evolutionary Ecology ¹	4
BIOL 250	Human Anatomy and Physiology I ¹	4
BIOL 251	Human Anatomy and Physiology II ¹	4
BIOL 260	Human Anatomy ¹	4
BIOL 261	Human Physiology ¹	4
BIOL 270	Microbiology ¹	5
CHEM 101	Introductory Chemistry ¹	4
CHEM 104	Introduction to Organic Chemistry and Biochemistry ¹	4
CHEM 105	Introduction to General, Organic And Biochemistry ¹	5
CHEM 150	General Chemistry I ¹	5
CHEM 151	General Chemistry II ¹	5
ENVT 100	Introduction to Environmental Science	3
FN 162	Introduction to Food and Nutrition	3
GEOG 110	Physical Geography	3
GEOG 111	Physical Geography Laboratory ¹	1
or GEOG 111H	Physical Geography Laboratory - Honors	
GEOG 114	Weather and Climate ¹	4
GEOL 101	Introduction to Physical Geology	3
GEOL 111	Introduction to Physical Geology Laboratory ¹	1
GEOL 112	Historical Geology ¹	4
GEOL 122	Environmental Geology	3
GEOL 250	Geology of California	3
GEOL 251	Geology of the National Parks and Monuments	3
OCEAN 101	Elements of Oceanography	3
OCEAN 111	Elements of Oceanography Laboratory ¹	1
PHYSIC 101	Introductory Physics ¹	4
PHYSIC 151	General Physics for the Life Sciences I	4
PHYSIC 152	General Physics for the Life Sciences II	4
PHYSIC 202	Physics I	4
PSYCH 141	Introduction to Biological Psychology	3

¹ Laboratory class

Category II: Social and Behavioral Science

(Minimum: 6 semester units; the two courses must be from two different subject areas).

Courses in the following subjects carry credit for Social and Behavioral Sciences:

Code	Title	Units
ANTHRO 100	Introduction to Archaeology	3
ANTHRO 102	Cultural Anthropology	3
or ANTHRO 102H	Cultural Anthropology - Honors	
ANTHRO 103	Anthropology of Food	3

ANTHRO 106	Biological Anthropology	3	PSYCH 112	Developmental Psychology: Child and Adolescent Psychology	3
or ANTHRO 106H	Biological Anthropology - Honors		PSYCH 118	Human Sexual Behavior	3
ANTHRO 108	North American Indians	3	RELIG 110	Magic, Witchcraft, and Religion	3
ANTHRO 109	Visual Culture and Art	3	RELIG 135	Religion in America	3
ANTHRO 110	Magic, Witchcraft, and Religion	3	RELIG 180	Death and Dying	3
ANTHRO 125	Language and Culture	3	SOC 100	Introduction to Sociology	3
CD 105	Child Growth and Development	3	or SOC 100H	Introduction to Sociology - Honors	
or CD 105H	Child Growth and Development - Honors		SOC 110	Social Problems	3
CD 108	Early Childhood Development	3	or SOC 110H	Social Problems - Honors	
CD 126	Child, Family, and the Community	3	SOC 120	Health and Social Justice	3
COMMST 135	Mass Media and Society	3	SOC 130	Family Sociology	3
COMMST 174	Intercultural Communication	3	SOC 135	Introduction to Crime	3
COMMST 176	Gender Differences in Communication	3	SOC 141	Race and Ethnic Relations	3
ECON 100	Introduction to Economics	3	SOC 145	Sociology of Gender	3
ECON 200	Principles of Macroeconomics	3	SOC 150	Aging and the Life Course	3
or ECON 200H	Principles of Macroeconomics - Honors				
ECON 201	Principles of Microeconomics	3			
or ECON 201H	Principles of Microeconomics - Honors				
FTVM 101	Introduction to Electronic Media	3			
GEOG 102	Cultural Geography	3			
GEOG 106	Geographic Perspectives on the Environment	3			
GEOG 118	California Geography	3			
GEOG 120	World Regional Geography	3			
HIST 100	United States History to 1877	3			
or HIST 100H	United States History to 1877 - Honors				
HIST 101	United States History: 1865 to Present	3			
or HIST 101H	United States History: 1865 to Present - Honors				
HIST 107	The United States and the North American Indians	3			
HIST 137	Racial and Ethnic Groups in United States History	3			
HIST 138	African-American History to 1877	3			
HIST 139	African-American History 1877 to Present	3			
HIST 140	Chicano History	3			
HIST 145	History of California	3			
HIST 150	Introduction to Latin American History	3			
HIST 170	World History to 1500	3			
HIST 171	World History Since 1500	3			
HIST 176	Comparative History of Genocide and War Crimes	3			
KIN 202	History of Physical Education and Sport In the United States	3			
PHIL 180	Death and Dying	3			
POLIT 100	American Politics	3			
POLIT 110	Introduction to Political Theory	3			
or POLIT 110H	Introduction to Political Theory - Honors				
POLIT 140	Introduction to Comparative Politics	3			
POLIT 141	Introduction to World Politics	3			
or POLIT 141H	Introduction to World Politics - Honors				
PSYCH 100	General Psychology	3			
or PSYCH 100H	General Psychology - Honors				
PSYCH 102	Personal and Social Adjustment	3			
PSYCH 110	Abnormal Psychology	3			
PSYCH 111	Developmental Psychology: Lifespan	3			

Category III: Humanities

(Minimum: 6 semester units; the two courses must be from different subject areas with no more than three semester units within the category of Applied Courses as identified below).

Courses in the following subjects carry credit for Humanities:

Code	Title	Units
ANTHRO 108	North American Indians	3
ANTHRO 109	Visual Culture and Art	3
ANTHRO 110	Magic, Witchcraft, and Religion	3
ARAB 101	College Arabic I	5
ARAB 102	College Arabic II	5
ARCH 145	History of Architecture: Early Design Through Gothic	3
or ARCH 145H	History of Architecture: Early Design Through Gothic - Honors	
ARCH 146	History of Architecture: Renaissance Through Modern	3
or ARCH 146H	Architecture History: Renaissance to Modern - Honors	
ART 100	Art History: The Stone Age to the Middle Ages	3
ART 102	Art History: Renaissance to Present	3
or ART 102H	Art History: Renaissance to Present - Honors	
ART 103	Art Appreciation	3
ART 105	History of Modern Art	3
ART 107	Art History: Africa, Oceania and the Americas	3
ART 108	Art of Mexico and Mesoamerica	3
ASL 109	American Sign Language I	4
ASL 110	American Sign Language II	4
ASL 111	American Sign Language III	4
ASL 112	American Sign Language IV	4
CHIN 101	College Mandarin Chinese I	5
CHIN 102	College Mandarin Chinese II	5
DANCE 200	Dance History and Appreciation	3
ENGL 032	Creative Writing	3
ENGL 055	Children's Literature	3
ENGL 061	Women Writers	3

ENGL 063	Chicano Literature	3	MUS 106	History of Jazz	3
ENGL 065	African-American Literature	3	MUS 107	Music of the World	3
ENGL 070	English Literature: Middle Ages to 18th Century	3	MUS 108	History of Hip Hop Music	3
ENGL 071	English Literature: 18th Century to Present	3	MUS 121	Music History and Literature - Middle Ages Through Baroque	3
ENGL 075	Literature and Religion of the Bible	3	or MUS 121H	Music History and Literature - Middle Ages Through Baroque - Honors	
ENGL 077	Shakespeare	3	MUS 122	Music History and Literature - Classic through Contemporary	3
ENGL 080	World Literature: To 17th Century	3	or MUS 122H	Music History and Literature - Classic Through Contemporary - Honors	
ENGL 081	World Literature: 17th Century to Present	3	MUS 201	Music Theory III: Basic Harmony	3
ENGL 140	Exploring the World of Science Fiction	3	MUS 202	Music Theory IV: Harmony	3
ENGL 141	Mystery and Detective Fiction	3	PHIL 101	Introduction to Philosophy	3
ENGL 151	Freshman Composition and Literature	3	or PHIL 101H	Introduction to Philosophy - Honors	
or ENGL 151H	Freshman Composition and Literature - Honors		PHIL 105	Introduction to Ethics	3
ENGL 153	Literature and Film	3	PHIL 112	Philosophy in Literature	3
ENGL 155	Children's Literature	3	PHIL 180	Death and Dying	3
ENGL 161	Women Writers	3	RELIG 100	Introduction to Religious Studies	3
ENGL 163	Chicano Literature	3	or RELIG 100H	Introduction to Religious Studies-Honors	
ENGL 165	African-American Literature	3	RELIG 101	Introduction to World Religions	3
ENGL 175	The Literature and Religion of the Bible	3	RELIG 110	Magic, Witchcraft, and Religion	3
ENGL 232	Creative Writing	3	RELIG 135	Religion in America	3
ENGL 260	American Literature to Mid 19th Century	3	RELIG 150	Introduction to Mythology	3
ENGL 261	American Literature From 1865 to Present	3	RELIG 175	The Literature and Religion of the Bible	3
ENGL 270	English Literature: Middle Ages to 18th Century	3	RELIG 176	Jesus and His Interpreters	3
or ENGL 270H	English Literature: Middle Ages to 18th Century - Honors		RELIG 180	Death and Dying	3
ENGL 271	English Literature: 18th Century to Present	3	SPAN 101	College Spanish I	5
or ENGL 271H	English Literature: 18th Century to Present - Honors		or SPAN 101H	College Spanish I - Honors	
ENGL 275	Shakespeare	3	SPAN 102	College Spanish II	5
ENGL 280	World Literature: to 17th Century	3	or SPAN 102H	College Spanish II - Honors	
ENGL 281	World Literature: 17th Century To Present	3	SPAN 103	College Spanish III	4
FRENCH 101	College French I	5	or SPAN 103H	College Spanish III - Honors	
FRENCH 102	College French II	5	SPAN 104	College Spanish IV	4
FTVM 102	Introduction to Media Aesthetics and Cinematic Arts	3	SPAN 157	Spanish for Heritage Speakers I	4
HIST 100	United States History to 1877	3	SPAN 158	Spanish for Heritage Speakers II	4
or HIST 100H	United States History to 1877 - Honors		THART 100	Introduction to the Theatre	3
HIST 101	United States History: 1865 to Present	3	THART 105	Script Analysis	3
or HIST 101H	United States History: 1865 to Present - Honors		THART 110	Voice and Diction for Actors	3
HIST 107	The United States and the North American Indians	3			
HIST 137	Racial and Ethnic Groups in United States History	3			
HIST 138	African-American History to 1877	3			
HIST 139	African-American History 1877 to Present	3			
HIST 140	Chicano History	3			
HIST 145	History of California	3			
HIST 150	Introduction to Latin American History	3			
HIST 170	World History to 1500	3			
HIST 171	World History Since 1500	3			
HIST 176	Comparative History of Genocide and War Crimes	3			
MUS 100	Music Appreciation	3			
MUS 101	Music Theory I: Fundamentals	3			
MUS 102	Music Theory II: Scales and Modes	3			
MUS 104	History of Rock and Roll	3			
MUS 105	American Popular Music	3			

Applied Courses (Humanities)

Code	Title	Units
ART 120	Two-Dimensional Design	3
ART 121	Three-Dimensional Design	3
ART 124A	Beginning Drawing	3
ART 124B	Intermediate Drawing	3
ART 124C	Advanced Drawing	3
ART 126A	Beginning Painting	3
ART 126B	Intermediate Painting	3
ART 126C	Advanced Painting	3
ART 132A	Beginning Life Drawing	3
ART 132B	Intermediate Life Drawing	3
ART 132C	Advanced Life Drawing	3

ART 145	Fundamentals of Graphic Design	3
ART 148	Beginning Computer Graphic Design	3
ART 149	Intermediate Computer Graphic Design	3
ART 161	Digital Photography	3
ART 175A	Beginning Sculpture	3
ART 175B	Intermediate Sculpture	3
ART 175C	Advanced Sculpture	3
ART 180	Beginning 3D Computer Animation	3
ART 212A	Beginning Ceramics	3
ART 212B	Intermediate Ceramics	3
ART 212C	Intermediate/Advanced Ceramics	3
ART 212D	Advanced Ceramics	3
ART 240A	Beginning Glassblowing	3
ART 240B	Intermediate Glassblowing	3
ART 240C	Intermediate/Advanced Glassblowing	3
ART 240D	Advanced Glassblowing	3
ART 270A	Beginning Design in Glass	3
ART 270B	Intermediate Design in Glass	3
ART 270C	Intermediate/Advanced Design in Glass	3
ART 270D	Advanced Design in Glass	3
FTVM 122	Acting and Directing for Television and Film	3
FTVM 131	Lighting and Cinematography	3
MUS 101L	Musicianship I	1
MUS 102L	Musicianship II	1
MUS 117A	Elementary Acoustic Guitar	1
MUS 117B	Intermediate Acoustic Guitar	1
MUS 117C	Intermediate/Advanced Acoustic Guitar	1
MUS 117D	Advanced Acoustic Guitar	1
MUS 123	Electronic Music I	3
MUS 124	Electronic Music II	3
MUS 130	Elementary Voice	3
MUS 131	Intermediate Voice	3
MUS 133	Elementary Piano	1
MUS 134	Intermediate Piano	1
MUS 135	Advanced Piano	1
MUS 141X2	Applied Music I	0.5
MUS 150X4	Mixed Chorus	1
MUS 152X4	Chamber Singers	2
MUS 153X4	Chamber Chorale	2
MUS 154X4	College Singers	2
MUS 156X4	Concert Choir	2
MUS 158X4	Gospel Choir	1
MUS 159X4	Theatrical Music Workshop	2
MUS 162X4	Wind Ensemble	1
MUS 166X4	Concert Band	1
MUS 170X2	Jazz Improvisation and Theory I	1
MUS 171X2	Jazz Improvisation and Theory II	1
MUS 180	Instrumental Chamber Music	1
MUS 201L	Musicianship III	1
MUS 202L	Musicianship IV	1
MUS 210	Conducting	3
MUS 241X2	Applied Music II	0.5

THART 114X4	Rehearsal and Performance	4
THART 120	Acting Fundamentals I	3
THART 121	Acting Fundamentals II	3
THART 132	Lighting Design Fundamentals	3
THART 135	Directing Fundamentals	3
THART 136	Introduction to Theatre Design	3
THART 139	Fundamentals of Costume Design	3
THART 147	Theatre Movement	3
THART 160X4	Technical Theatre in Production	3
THART 165	Stage Makeup	3
THART 166	Improvisational Acting	3

Category IV: Communication and Analytical Thinking

(Minimum: 6 semester units)

1. English composition is required of all students. Courses meeting this requirement are ENGL 101 or ENGL 101H.
2. Students may select from the following courses to complete the other portion of the requirement:

Code	Title	Units
COMMST 100	Elements of Public Speaking	3
or COMMST 100H	Elements of Public Speaking - Honors	
COMMST 111	Interpersonal Communication	3
COMMST 125	Critical Thinking Through Argumentation and Debate	3
COMMST 140	Small Group Communication	3
ECON 208	Business and Economic Statistics	4
ENGL 102	Intermediate Composition and Critical Thinking	4
or ENGL 102H	Intermediate Composition and Critical Thinking - Honors	
MATH 102	College Algebra (and above)	4
PHIL 102	Critical Thinking and Writing	3
PHIL 103	Introduction to Logic: Argument and Evidence	3
PSYCH 105	Statistics for the Behavioral Sciences (completed Fall 2009 and later)	4
READ 100	College Academic Reading	3
READ 102	Critical Reading As Critical Thinking	3

Category V: Lifelong Learning and Self Development

(Minimum 2 semester units)

Courses in the following subjects carry credit for this requirement: (Note: A maximum of four semester units of Kinesiology activity courses can apply for graduation requirements.)

Code	Title	Units
BIOL 140	Biology of Sexually Transmitted Diseases	2
BUSAD 039	Strategies for Successful Employment	3
BUSAD 108	Personal Finance, Investments and Estate Planning	3
CD 101	Parent-Child Interaction	3
CD 105	Child Growth and Development	3
or CD 105H	Child Growth and Development - Honors	
CD 126	Child, Family, and the Community	3
DANCE 101A	Beginning Modern Dance	2

DANCE 101B	Beginning/Intermediate Modern Dance	2
DANCE 102A	Intermediate Modern Dance	2
DANCE 102B	Intermediate/Advanced Modern Dance	2
DANCE 103A	Beginning Ballet	2
DANCE 103B	Beginning/Intermediate Ballet	2
DANCE 105A	Beginning Jazz Dance	2
DANCE 105B	Beginning/Intermediate Jazz Dance	2
DANCE 106A	Intermediate Jazz Dance	2
DANCE 106B	Intermediate/Advanced Jazz Dance	2
DANCE 107X2	Beginning Tap Dance	2
DANCE 114X4	Dance Rehearsal and Performance	4
DANCE 206X4	Dance Production	4
FN 162	Introduction to Food and Nutrition	3
GEOG 106	Geographic Perspectives on the Environment	3
HEALTH 101	Health Education	3
HEALTH 103	Introduction to Holistic Health	3
KIN 236	Stress Management and Wellness	3
KINA	All Courses	
KINF	All Courses	
KINS	All Courses	
KINX	All Courses	
PSYCH 100	General Psychology	3
	or PSYCH 100H General Psychology - Honors	
PSYCH 102	Personal and Social Adjustment	3
PSYCH 111	Developmental Psychology: Lifespan	3
PSYCH 118	Human Sexual Behavior	3
SDEV 001	Orientation to College	1
SDEV 015	Puente: Strategies for College Success	1
SDEV 102	Pathways for College and Life Success	3
SDEV 103	Career Exploration and Life Planning	3
SOC 130	Family Sociology	3
SOC 150	Aging and the Life Course	3

A DD214 waives this requirement for former military personnel

Students are exempt from this requirement if they have completed any of the following programs of study at SBVC: Nursing, Psychiatric Technology, or POLICE 002 Basic Law Enforcement Academy. KIN 231 First Aid and CPR does not satisfy this graduation requirement.

Important note:

The purpose of categorical subject requirements for graduation is to assure that the graduate will have adequate breadth outside of the area of specialization. For this reason, **no courses in any of the preceding categories may be used to meet more than one requirement.** However, units in a student's subject major may be used to fulfill the requirements in Categories I through V above.

Vocational Certificate Programs

San Bernardino Valley College offers certificates of occupational proficiency in many fields. Certificates enable the student to gain marketable skills relatively quickly and at less expense than would be required for an associate degree. Students working toward a certificate are not typically required to take advanced academic courses in such fields as philosophy, foreign languages or history. Nonetheless, they must have a sufficient background in mathematics, reading and writing in order to

complete their coursework and to succeed in the occupations they select. Students must also complete all requirements for a certificate with a grade of C or higher. Refer to Degree and Certificate Program Index (p. 61) page for a complete list of certificates, and to the individual programs described in Part IV for a complete list of the sequence and scope of courses required for each certificate. The length of the certificate program may vary. Students interested in enrolling in certificate programs should confer with a counselor and talk with representatives of the departments that offer the desired program. In some instances, courses completed in high school may be used to satisfy some of the requirements for a certificate. In addition, training programs such as military courses, apprenticeships or other training may be credited toward a certificate program.

State Approved Certificates of Achievement

State-approved certificate programs consisting of 18 or more units of degree-applicable coursework. These certificates appear by name on student's transcripts.

Locally Approved Certificates of Career Preparation

Locally approved certificate programs consisting of fewer than 18 units of degree-applicable coursework. These certificates do not appear on student's transcripts. At the beginning of the student's final semester, he/she should obtain a Graduation and/or Certificate Application either from the Counseling Office, Records Office or the division office of his/her certificate program. The student will then submit the application to the Records Office for a final check by the deadline date for the semester in question. Those dates are as follows:

Fall - October 1

Spring - March 1

Summer - July 1

When printed deadlines fall either Saturday or Sunday, the filing period will be extended to the Monday following the deadline date. Twelve units, or 50 percent of the coursework required for a certificate, whichever is the lesser, must be completed at San Bernardino Valley College. This residency requirement may be waived in the case of extenuating circumstances with the permission of the program coordinator or Faculty Chair.

The certificate will be prepared by the Records Office and will be available to the student by the start of each new semester following the semester of submission.

Transfer Information

Associate Degrees for Transfer (p. 51)

Intersegmental General Education Transfer Curriculum (IGETC) (p. 56)

California State University General Education - Breadth (p. 52)

The California State University (CSU)

The California State University system consists of 23 campuses, ranging in location from San Diego to Arcata. The admission cycle for the fall term of each year begins on October 1 of the preceding year. Eligible students may also be accepted during the winter and/or spring terms. Check with the Transfer Center to determine the acceptance dates for each CSU campus. A maximum of 70 transfer-level semester units (or 105 quarter units) earned in a community college will be accepted for transfer. Although courses may

be indicated in the catalog as transferable to UC and/or CSU, they may or may not meet general education or major preparation.

Students who plan to transfer to UC or CSU should consult with a counselor and the following websites:

www.valleycollege.edu/student-services/counseling/counseling-services
(<http://www.valleycollege.edu/student-services/counseling/counseling-services/>)

www.calstate.edu/apply (<http://www.calstate.edu/apply/>)

uctransfer.universityofcalifornia.edu (<http://uctransfer.universityofcalifornia.edu/>)

www.assist.org (<http://www.assist.org/>)

Students transferring to the California State University should check both the general education and major requirements as early as possible by referring to the current catalogs for the colleges of their choice. A Dual Admissions Program is available to smooth the transition between San Bernardino Valley College and California State University, San Bernardino. Consult with the Transfer Center for details on this agreement.

The University of California (UC)

The University of California has nine major campuses: Berkeley, Davis, Irvine, Los Angeles, Merced, Riverside, San Diego, Santa Barbara, and Santa Cruz. A tenth campus in San Francisco offers graduate and professional programs in the Health Sciences. With the exception of Berkeley and Merced, these campuses are on a quarter-unit basis. When converting semester units to quarter units, the number of semester units should be divided by two-thirds. When converting from quarter units to semester units, the number of quarter units should be multiplied by two-thirds. Students who plan to transfer to the University of California may complete all of the required lower division courses at San Bernardino Valley College. Although courses may be indicated in the catalog as transferable to UC and/or CSU, they may or may not meet general education or major preparation. Students who plan to transfer to UC or CSU should consult with a counselor and the following websites:

www.calstate.edu/apply (<http://www.calstate.edu/apply/>)

uctransfer.universityofcalifornia.edu (<http://uctransfer.universityofcalifornia.edu/>)

www.assist.org (<http://www.assist.org/>)

While the UC campuses have similar general breadth lower division requirements and will accept a maximum of 70 transferable semester units (or 105 quarter units) of transfer work, there are some subject differences among the campuses. Consult the catalog of the desired UC campus to identify these differences.

It is also possible to transfer to a University of California campus upon completion of the Intersegmental General Education Transfer Curriculum (IGETC), as discussed in the following section of this catalog.

The admission cycle for the fall term of the University of California begins each year on November 1 of the preceding year. Each campus will accept for consideration all applications filed during the month of November. Since enrollment ceilings have been established at each campus, students may be accepted only at their second or third choice campus.

Students should enroll in the transfer courses that meet the following requirements:

- Complete 60 semester units or 90 quarter units of transferable college credit with a grade point average of 2.4 (no more than 14 semester/21 quarter units may be taken Pass/Not Pass), and;
- Completed the following course pattern requirement, earning a grade of C or better in each course:
 - Two transferable college courses (3 semester or 4-5 quarter units each) in English composition, and;
 - One transferable college course (3 semester or 4-5 quarter units) in mathematical concepts and quantitative reasoning, and;
 - Four transferable college courses (3 semester or 4-5 quarter units each) chosen from at least two of the following subject areas: the arts and humanities, the social and behavioral science and physical and biological sciences.

Students who satisfy the Intersegmental General Education Transfer Curriculum (IGETC) prior to transferring to UC may satisfy transfer admission requirements.

Two programs are available to smooth the transition from San Bernardino Valley College to a University of California campus:

1. Transfer Admission Guarantee Program (TAG):

An agreement between the University of California and San Bernardino Valley College. Consult with the Transfer Center for details of this admissions agreement. They can be found at AD/SS 203 or call (909) 384-4410;

2. Transfer Alliance Program (TAP):

An agreement between the University of California, Los Angeles, and the Honors Program at San Bernardino Valley College. Consult with the Honors Program Coordinator or the Honors Program Counselor for details of this admissions agreement. Call (909) 384-8612 for additional information.

Catalogs for each of the UC campuses may be available in the Transfer Center. Also, in the Transfer Center, (AD/SS 203 or call (909) 384-4410) there is further information available that provide a summary of the unique requirements of each University of California campus: *Introducing the University and Answers for Transfers*.

Requirements for Transfer to Independent California Colleges and Universities

California's fully accredited independent colleges and universities provide a host of options at undergraduate, graduate and professional levels for students planning to continue their education beyond community college. Students who transfer to independent colleges often find that they are given academic credit for most, if not all, of their community college studies. Virtually all institutions give full credit for general education courses and usually for other courses designated for transfer by the community college. Additional information is available in the Transfer Center.

Associate Degrees for Transfer

The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an "associate degree for transfer", a newly established variation of the associate degrees

traditionally offered at a California community college. The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

In order to earn one of these degrees, students must complete 60 semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

To earn an AA-T or AS-T degree, students must complete the following requirements:

1. Completion of 60 semester units that are eligible for transfer to a California State University, including certified completion of one of the following:
 - a. California State University General Education-Breadth pattern (CSU GE)
 - b. Intersegmental General Education Transfer Curriculum (IGETC).
2. Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major
3. Obtainment of a minimum grade point average of 2.0. While a minimum of 2.0 is required for admission, some majors may require a higher GPA.
 - A "P" (Pass) grade is not an acceptable grade for courses in the major.
4. Students preparing for a major in science, technology, engineering, or mathematics (STEM) are eligible to complete CSU GE Breadth for STEM or IGETC (Intersegmental General Education Transfer Curriculum) for STEM
 - Students completing CSU GE Breadth for STEM majors (AS-T Biology, AS-T Chemistry, AS-T Environmental Science) are only required to complete 33 semester units for lower-division GE certification for transfer. This pattern allows students to defer completion of one course from CSU GE Area C and one course from CSU GE Area D until after transfer.

Requirements of the CSU GE Breadth for STEM are:

Area A: All courses in English Language Communication and Critical Thinking.

Area B: All courses in Scientific Inquiry and Quantitative Reasoning.

Area C: One course in Area C1 Arts and one course in Area C2 Humanities.

Area D: Two courses from two different disciplines in the Social Sciences.

Area E: All courses in Lifelong Learning and Self-Development
5. Students completing IGETC for STEM majors (AS-T Biology, AS-T Chemistry, AS-T Environmental Science) are allowed to defer completion of one course from IGETC Area 3, one course from IGETC Area 4, and one course in Area 6 (Language Other Than English/LOTE -- for students who have not previously satisfied LOTE through proficiency) until after transfer.

Requirements of the IGETC for STEM are:

- All courses in Areas 1, 2, and 5 of the traditional IGETC; and
- Two courses in Area 3 and two courses in Area 4.

It is highly recommended that students complete courses that satisfy the U.S. History, Constitution, and American Ideals requirement as part of CSU GE or IGETC before transferring to a CSU.

Benefits of the AA-T and AS-T Degrees

Besides the benefit of completing community college coursework with an associate degree in hand, this program also provides students with the necessary preparation to transfer to the CSU system and complete a baccalaureate degree with no more than 60 additional units. Students with an AA-T or AS-T degree will be guaranteed admission to a CSU campus with junior standing. While not guaranteed admission to their campus of choice, students will be given priority consideration for admission to their local CSU campus and to any CSU campus that offers a program that has been designated as 'similar' by CSU.

Associate degrees for transfer by discipline

Administration of Justice AS-T
 Anthropology AA-T
 Biology AS-T
 Business Administration AS-T
 Chemistry AS-T
 Communication Studies AA-T
 Early Childhood Education AS-T
 Economics AA-T
 English AA-T
 Environmental Science AS-T
 Film, Television, and Electronic Media AS-T
 Geography AA-T
 Geology AS-T
 Kinesiology AA-T
 Mathematics AS-T
 Music AA-T
 Philosophy AA-T
 Physics AS-T
 Political Science AA-T
 Psychology AA-T
 Sociology AA-T
 Spanish AA-T
 Studio Arts AA-T
 Theatre Arts AA-T

California State University General Education - Breadth

San Bernardino Valley College may certify that a student has satisfied the minimum general education requirements of 39 lower division transfer units in accordance with CSU Executive Order 1100.

CSU GE-Breadth Certificate of Achievement

The CSU GE-Breadth certificate of achievement is intended for students who are planning to transfer their lower-division transferable general education and major preparation courses from SBVC to a campus in the California State University (CSU) system. It may also be accepted by some private/independent or out of state universities. Successful completion of the CSU GE-Breadth certificate requires an overall grade point average (GPA) of at least a 2.0. Students are strongly advised to meet with a counselor early to discuss their transfer plans, as completion of the CSU

GE-Breadth does not guarantee admission to a specific campus within the CSU system, nor does it guarantee admission to a specific major. Students are required to have a minimum total of 60 transferable units that include a combination of general education and major preparation courses.

Area A: English Language Communication and Critical Thinking

9 semester units / 12-quarter units, one (1) course from each group. A minimum grade of "C-" is required in each course.

Code	Title	Units
A1 Oral Communication		
Select one of the following:		3
COMMST 100	Elements of Public Speaking	3
	or COMMST 100H Elements of Public Speaking - Honors	
COMMST 111	Interpersonal Communication	3
COMMST 140	Small Group Communication	3
A2 Written Communication		
ENGL 101	Freshman Composition	4
	or ENGL 101H Freshman Composition-Honors	
A3 Critical Thinking		
Select one of the following:		3
COMMST 125	Critical Thinking Through Argumentation and Debate	3
ENGL 102	Intermediate Composition and Critical Thinking	4
	or ENGL 102H Intermediate Composition and Critical Thinking - Honors	
PHIL 102	Critical Thinking and Writing	3
PHIL 103	Introduction to Logic: Argument and Evidence	3
READ 102	Critical Reading As Critical Thinking	3

Area B: Scientific Inquiry and Quantitative Reasoning

Minimum of 9 semester units / 12-quarter units. One course from B1 (Physical Science), one course from B2 (Life Science), one course from B4 (Mathematics / Quantitative Reasoning). One of the three courses taken must be a laboratory course.

Code	Title	Units
B1 Physical Science		
Select one of the following:		3-6
ASTRON 120	Introduction to Astronomy	3
ASTRON 125	Astronomy Laboratory ¹	1
CHEM 101	Introductory Chemistry ¹	4
CHEM 104	Introduction to Organic Chemistry and Biochemistry ¹	4
CHEM 105	Introduction to General, Organic And Biochemistry ¹	5
CHEM 150	General Chemistry I ¹	5
CHEM 151	General Chemistry II ¹	5
CHEM 212	Organic Chemistry I ¹	4
CHEM 213	Organic Chemistry II ¹	4
ENVT 100	Introduction to Environmental Science	3
GEOG 110	Physical Geography	3
GEOG 111	Physical Geography Laboratory ¹	1
	or GEOG 111H Physical Geography Laboratory - Honors	

GEOG 114	Weather and Climate ¹	4
GEOL 101	Introduction to Physical Geology	3
GEOL 111	Introduction to Physical Geology Laboratory ¹	1
GEOL 112	Historical Geology ¹	4
GEOL 122	Environmental Geology	3
GEOL 250	Geology of California	3
GEOL 251	Geology of the National Parks and Monuments	3
OCEAN 101	Elements of Oceanography	3
OCEAN 111	Elements of Oceanography Laboratory ¹	1
PHYSIC 101	Introductory Physics ¹	4
PHYSIC 151	General Physics for the Life Sciences I	4
PHYSIC 152	General Physics for the Life Sciences II	4
PHYSIC 202	Physics I	4
PHYSIC 203	Physics II	4
PHYSIC 204	Physics III	4

B2 Life Science		
Select one of the following:		3-5
ANTHRO 106	Biological Anthropology	3
	or ANTHRO 106H Biological Anthropology - Honors	
ANTHRO 106L	Biological Anthropology Laboratory ¹	1
BIOL 100	General Biology ¹	4
BIOL 102	Human Biology	3
BIOL 104	Human Ecology	3
BIOL 109	History of Life ¹	4
	or BIOL 109H History of Life - Honors	
BIOL 141	Genetics	3
BIOL 155	Introductory Anatomy and Physiology ¹	4
BIOL 205	Cell and Molecular Biology ¹	4
BIOL 206	Organismal Biology ¹	4
BIOL 207	Evolutionary Ecology ¹	4
BIOL 250	Human Anatomy and Physiology I ¹	4
BIOL 251	Human Anatomy and Physiology II ¹	4
BIOL 260	Human Anatomy ¹	4
BIOL 261	Human Physiology ¹	4
BIOL 270	Microbiology ¹	5
PSYCH 141	Introduction to Biological Psychology	3

B3 Laboratory Activity

The requirement is satisfied by completion of any course in B1 or B2 with a laboratory.

B4 Mathematics/Quantitative Reasoning

A minimum grade of "C-" is required.

Select one of the following:		3-5
ECON 208	Business and Economic Statistics	4
MATH 102	College Algebra	4
MATH 103	Plane Trigonometry	4
MATH 108	Introduction to Probability and Statistics	4
MATH 115	Ideas of Mathematics	3
MATH 141	Business Calculus	4
MATH 151	Precalculus	4
MATH 250	Single Variable Calculus I	4
MATH 251	Single Variable Calculus II	4
MATH 252	Multivariable Calculus	5

MATH 265	Linear Algebra	4
MATH 266	Ordinary Differential Equations	4
PSYCH 105	Statistics for the Behavioral Sciences (completed Fall 2009 and later)	4

¹ Laboratory course.

Area C: Arts and Humanities

Minimum of 9 semester / 12 quarter units, with at least one course in the Arts and one from Humanities.

Code	Title	Units
C1 Arts (Art, Cinema, Dance, Music, Theater)		
Select at least one of the following:		
ANTHRO 109	Visual Culture and Art	3
ARCH 145	History of Architecture: Early Design Through Gothic	3
or ARCH 145H	History of Architecture: Early Design Through Gothic - Honors	
ARCH 146	History of Architecture: Renaissance Through Modern	3
or ARCH 146H	Architecture History: Renaissance to Modern - Honors	
ART 100	Art History: The Stone Age to the Middle Ages	3
ART 102	Art History: Renaissance to Present	3
or ART 102H	Art History: Renaissance to Present - Honors	
ART 103	Art Appreciation	3
ART 105	History of Modern Art	3
ART 107	Art History: Africa, Oceania and the Americas	3
ART 108	Art of Mexico and Mesoamerica	3
DANCE 200	Dance History and Appreciation	3
FTVM 102	Introduction to Media Aesthetics and Cinematic Arts	3
MUS 100	Music Appreciation	3
MUS 101	Music Theory I: Fundamentals	3
MUS 102	Music Theory II: Scales and Modes	3
MUS 104	History of Rock and Roll	3
MUS 105	American Popular Music	3
MUS 106	History of Jazz	3
MUS 107	Music of the World	3
MUS 108	History of Hip Hop Music	3
MUS 121	Music History and Literature - Middle Ages Through Baroque	3
or MUS 121H	Music History and Literature - Middle Ages Through Baroque - Honors	
MUS 122	Music History and Literature - Classic through Contemporary	3
or MUS 122H	Music History and Literature - Classic Through Contemporary - Honors	
THART 100	Introduction to the Theatre	3
THART 105	Script Analysis	3
C2 Humanities (Literature and Language other than English)		
Select one of the following:		
ANTHRO 108	North American Indians	3
ANTHRO 110	Magic, Witchcraft, and Religion	3

or RELIG 110	Magic, Witchcraft, and Religion	
ARAB 101	College Arabic I	5
ARAB 102	College Arabic II	5
ASL 109	American Sign Language I	4
ASL 110	American Sign Language II	4
ASL 111	American Sign Language III	4
ASL 112	American Sign Language IV	4
CHIN 101	College Mandarin Chinese I	5
CHIN 102	College Mandarin Chinese II	5
ENGL 140	Exploring the World of Science Fiction	3
ENGL 141	Mystery and Detective Fiction	3
ENGL 151	Freshman Composition and Literature	3
or ENGL 151H	Freshman Composition and Literature - Honors	
ENGL 153	Literature and Film	3
ENGL 155	Children's Literature	3
ENGL 161	Women Writers	3
ENGL 163	Chicano Literature	3
ENGL 165	African-American Literature	3
ENGL 175	The Literature and Religion of the Bible	3
ENGL 232	Creative Writing	3
ENGL 260	American Literature to Mid 19th Century	3
ENGL 261	American Literature From 1865 to Present	3
ENGL 270	English Literature: Middle Ages to 18th Century	3
or ENGL 270H	English Literature: Middle Ages to 18th Century - Honors	
ENGL 271	English Literature: 18th Century to Present	3
or ENGL 271H	English Literature: 18th Century to Present - Honors	
ENGL 275	Shakespeare	3
ENGL 280	World Literature: to 17th Century	3
ENGL 281	World Literature: 17th Century To Present	3
FRENCH 101	College French I	5
FRENCH 102	College French II	5
HIST 100	United States History to 1877	3
or HIST 100H	United States History to 1877 - Honors	
HIST 101	United States History: 1865 to Present	3
or HIST 101H	United States History: 1865 to Present - Honors	
HIST 107	The United States and the North American Indians	3
HIST 137	Racial and Ethnic Groups in United States History	3
HIST 138	African-American History to 1877	3
HIST 139	African-American History 1877 to Present	3
HIST 140	Chicano History	3
HIST 145	History of California	3
HIST 150	Introduction to Latin American History	3
HIST 170	World History to 1500	3
HIST 171	World History Since 1500	3
HIST 176	Comparative History of Genocide and War Crimes	3
PHIL 101	Introduction to Philosophy	3
or PHIL 101H	Introduction to Philosophy - Honors	
PHIL 105	Introduction to Ethics	3
PHIL 112	Philosophy in Literature	3
PHIL 180	Death and Dying	3
or RELIG 180	Death and Dying	

RELIG 100	Introduction to Religious Studies	3
or RELIG 100H	Introduction to Religious Studies-Honors	
RELIG 101	Introduction to World Religions	3
RELIG 110	Magic, Witchcraft, and Religion	3
or ANTHRO 110	Magic, Witchcraft, and Religion	
RELIG 135	Religion in America	3
RELIG 150	Introduction to Mythology	3
RELIG 175	The Literature and Religion of the Bible	3
RELIG 176	Jesus and His Interpreters	3
RELIG 180	Death and Dying	3
or PHIL 180	Death and Dying	
SPAN 101	College Spanish I	5
or SPAN 101H	College Spanish I - Honors	
SPAN 102	College Spanish II	5
or SPAN 102H	College Spanish II - Honors	
SPAN 103	College Spanish III	4
or SPAN 103H	College Spanish III - Honors	
SPAN 104	College Spanish IV	4
SPAN 157	Spanish for Heritage Speakers I	4
SPAN 158	Spanish for Heritage Speakers II	4

Area D: Social Sciences

Minimum of 9 semester units / 12-quarter units.

Code	Title	Units
Select three of the following from a minimum of two disciplines:		
ANTHRO 100	Introduction to Archaeology	3
ANTHRO 102	Cultural Anthropology	3
or ANTHRO 102H	Cultural Anthropology - Honors	
ANTHRO 103	Anthropology of Food	3
ANTHRO 106	Biological Anthropology	3
or ANTHRO 106H	Biological Anthropology - Honors	
ANTHRO 108	North American Indians	3
ANTHRO 109	Visual Culture and Art	3
ANTHRO 110	Magic, Witchcraft, and Religion	3
ANTHRO 125	Language and Culture	3
CD 105	Child Growth and Development	3
or CD 105H	Child Growth and Development - Honors	
CD 108	Early Childhood Development	3
CD 126	Child, Family, and the Community	3
COMMST 135	Mass Media and Society	3
COMMST 174	Intercultural Communication	3
COMMST 176	Gender Differences in Communication	3
ECON 100	Introduction to Economics	3
ECON 200	Principles of Macroeconomics	3
or ECON 200H	Principles of Macroeconomics - Honors	
ECON 201	Principles of Microeconomics	3
or ECON 201H	Principles of Microeconomics - Honors	
FTVM 101	Introduction to Electronic Media	3
GEOG 102	Cultural Geography	3
GEOG 106	Geographic Perspectives on the Environment	3
GEOG 120	World Regional Geography	3
HIST 100	United States History to 1877	3

or HIST 100H	United States History to 1877 - Honors	
HIST 101	United States History: 1865 to Present	3
or HIST 101H	United States History: 1865 to Present - Honors	
HIST 107	The United States and the North American Indians	3
HIST 137	Racial and Ethnic Groups in United States History	3
HIST 138	African-American History to 1877	3
HIST 139	African-American History 1877 to Present	3
HIST 140	Chicano History	3
HIST 145	History of California	3
HIST 150	Introduction to Latin American History	3
HIST 170	World History to 1500	3
HIST 171	World History Since 1500	3
HIST 176	Comparative History of Genocide and War Crimes	3
KIN 202	History of Physical Education and Sport In the United States	3
PHIL 180	Death and Dying	3
POLIT 100	American Politics	3
POLIT 110	Introduction to Political Theory	3
or POLIT 110H	Introduction to Political Theory - Honors	
POLIT 140	Introduction to Comparative Politics	3
POLIT 141	Introduction to World Politics	3
PSYCH 100	General Psychology	3
or PSYCH 100H	General Psychology - Honors	
PSYCH 102	Personal and Social Adjustment	3
PSYCH 110	Abnormal Psychology	3
PSYCH 111	Developmental Psychology: Lifespan	3
PSYCH 112	Developmental Psychology: Child and Adolescent Psychology	3
PSYCH 118	Human Sexual Behavior	3
RELIG 110	Magic, Witchcraft, and Religion	3
RELIG 135	Religion in America	3
RELIG 180	Death and Dying	3
SOC 100	Introduction to Sociology	3
or SOC 100H	Introduction to Sociology - Honors	
SOC 110	Social Problems	3
or SOC 110H	Social Problems - Honors	
SOC 120	Health and Social Justice	3
SOC 130	Family Sociology	3
SOC 135	Introduction to Crime	3
SOC 141	Race and Ethnic Relations	3
SOC 145	Sociology of Gender	3
SOC 150	Aging and the Life Course	3

Area E: Lifelong Learning and Self-Development

Minimum of 3 semester units / 4-quarter units. Three units of credit is allowed for former military personnel with a DD-214.

Code	Title	Units
Select at least one of the following:		
BIOL 140	Biology of Sexually Transmitted Diseases	2
BUSAD 108	Personal Finance, Investments and Estate Planning	3

CD 101	Parent-Child Interaction	3
CD 105	Child Growth and Development	3
or CD 105H	Child Growth and Development - Honors	
CD 126	Child, Family, and the Community	3
FN 162	Introduction to Food and Nutrition	3
GEOG 106	Geographic Perspectives on the Environment	3
HEALTH 101	Health Education	3
HEALTH 103	Introduction to Holistic Health	3
KIN 236	Stress Management and Wellness	3
PSYCH 100	General Psychology	3
or PSYCH 100H	General Psychology - Honors	
PSYCH 102	Personal and Social Adjustment	3
PSYCH 111	Developmental Psychology: Lifespan	3
PSYCH 118	Human Sexual Behavior	3
SDEV 102	Pathways for College and Life Success	3
SDEV 103	Career Exploration and Life Planning	3
SOC 130	Family Sociology	3
SOC 150	Aging and the Life Course	3

Activity Courses

Only 1-semester unit/1.5 quarter units allowed toward Area E

Code	Title	Units
DANCE 101A	Beginning Modern Dance	2
DANCE 101B	Beginning/Intermediate Modern Dance	2
DANCE 102A	Intermediate Modern Dance	2
DANCE 102B	Intermediate/Advanced Modern Dance	2
DANCE 103A	Beginning Ballet	2
DANCE 103B	Beginning/Intermediate Ballet	2
DANCE 105A	Beginning Jazz Dance	2
DANCE 105B	Beginning/Intermediate Jazz Dance	2
DANCE 106A	Intermediate Jazz Dance	2
DANCE 106B	Intermediate/Advanced Jazz Dance	2
DANCE 107X2	Beginning Tap Dance	2
DANCE 114X4	Dance Rehearsal and Performance	4
DANCE 206X4	Dance Production	4
KINA: Adapted	All Courses	
KINF: Fitness	All Courses	
KINS: Sports	All Courses	
KINX: Athletics	All Courses	

U.S. History and American Ideals Requirement

Not part of CSU GE Certification, but can be completed prior to transfer. Courses may also be applied toward areas C and D. Any combination of one selection from **each** of the following lists of history and politics courses will normally fulfill this requirement:

Code	Title	Units
Group 1		
HIST 100	United States History to 1877	3
or HIST 100H	United States History to 1877 - Honors	
HIST 101	United States History: 1865 to Present	3

or HIST 101H	United States History: 1865 to Present - Honors	
HIST 137	Racial and Ethnic Groups in United States History	3
HIST 139	African-American History 1877 to Present	3
HIST 140	Chicano History	3

Group 2

POLIT 100	American Politics	3
-----------	-------------------	---

Note:

- Students with AP Examinations will receive appropriate CSU GE-Breadth credit according to the CSU Office of the Chancellor guidelines.
- Students are encouraged to complete Areas A and B4 early. CSU will not admit students until the grades are recorded for courses in Areas A and B4.
- Upon transfer, students will be required to complete at least nine units of upper-division general education courses at the CSU.
- For CSU GE-Breadth certification purposes, students may use the catalog of entry or any catalog thereafter as long as continuous enrollment is maintained until transfer to CSU. CSU defines continuous enrollment as one semester or two quarters in each calendar year.
- Students may request official certification of CSU GE-Breadth requirements at the SBVC Records Office.
- Although SBVC will certify Areas A through E individually, the CSU encourages students to complete all areas prior to transfer. Upper division transfer students are required to complete a minimum of 30 units of CSU GE-Breadth courses with a minimum grade of C in each course.
- Course work from other California Community Colleges will be evaluated according to the CSU GE-Breadth pattern of those respective colleges. For out-of-state coursework, the SBVC Records Office will determine equivalency to SBVC courses. Courses from foreign institutions may not be certified. Official transcripts must be on file in the Records Office.
- A single course may not be certified as meeting more than one category.
- Some majors at the CSU have required general education courses and/or do not allow double counting of courses toward major requirements. Students are encouraged to consult with a counselor and the catalog of the CSU to which they want to transfer.
- The courses on this list are approved by the CSU Chancellor's office for Fall 2020 and beyond. **SBVC courses not on this list may not be used for CSU GE-Breadth requirements, except for courses that were on the CSU GE-Breadth list for the year in which they were completed.**

Intersegmental General Education Transfer Curriculum (IGETC)

Completion of all the requirements in the Intersegmental General Education Transfer Curriculum (IGETC) will permit a student to transfer from a community college to a campus in either the University of California (UC) or the California State University (CSU) without the need to complete additional lower-division general education courses. The IGETC is not an admission requirement for transfer to UC or CSU, nor is it the only way to fulfill prior to transfer, the lower-division, general education requirements of UC or CSU. Students pursuing majors that require extensive lower-division preparation may not find the IGETC option to be advantageous. Students with Advanced Placement (AP) Examinations, will receive credit for the appropriate IGETC area as documented in the "IGETC Standards,

Policies, and Procedures (<http://icas-ca.org/igetc/>). A minimum grade of 'C' is required in each course.

IGETC Certificate of Achievement

The Intersegmental General Education Transfer Curriculum (IGETC) certificate of achievement is intended for students who are planning to transfer their lower-division transferable general education and major preparation courses from SBVC to a campus in the California State University (CSU) or University of California (UC) system. It may also be accepted by some private/independent or out of state universities. The course requirements for all areas in IGETC must be completed with a grade of 'C' or higher. Students are strongly advised to meet with a counselor early to discuss their transfer plans, as completion of the IGETC certificate does not guarantee admission to a specific campus within the CSU or UC system, nor does it guarantee acceptance into a specific major. Students are required to have a minimum total of 60 transferable units that include a combination of general education and major preparation courses.

Note:

1. Courses may be counted in one area only, with the exception of Area 6A: Language Other than English (LOTE) requirement for UC's.
2. Students should request official IGETC certification from the SBVC Records Office. For students who have completed coursework at multiple campuses, the campus of last attendance prior to transfer to UC or CSU will usually certify the IGETC. SBVC will certify coursework from other campuses according to the IGETC list of the originating campus. Official transcripts from high school and other colleges and universities must be on file at the SBVC Records Office.
3. Courses completed at colleges and universities outside of the U.S.A. will not be permitted for IGETC certification, except for the Language Other than English requirement.
4. Courses on this list are approved for Fall 2020 and beyond. SBVC courses not listed above may not be used for IGETC, except for courses that were on the IGETC list for the year in which they were completed.

Area 1: English Communication

CSU: Three (3) courses required, one from each group below.

UC: Two (2) courses required, one each from 1A and 1B.

Code	Title	Units
1A: English Composition		
One course, 3 semester units / 4-5 quarter units.		
ENGL 101	Freshman Composition	4
	or ENGL 101H Freshman Composition-Honors	
1B: Critical Thinking - English Composition		
One course, 3 semester units / 4-5 quarter units.		
Select one of the following:		
ENGL 102	Intermediate Composition and Critical Thinking	4
ENGL 102H	Intermediate Composition and Critical Thinking - Honors	4
PHIL 102	Critical Thinking and Writing	3
1C: Oral Communication (CSU only)		
One course, 3 semester units / 4-5 quarter units.		
Select one of the following:		
COMMST 100	Elements of Public Speaking	3
COMMST 100H	Elements of Public Speaking - Honors	3

COMMST 111	Interpersonal Communication	3
COMMST 140	Small Group Communication	3

Area 2: Mathematical Concepts and Quantitative Reasoning

One course, 3 semester units / 4-5 quarter units.

Code	Title	Units
Select one of the following:		
ECON 208	Business and Economic Statistics ¹	4
MATH 102	College Algebra ¹	4
MATH 108	Introduction to Probability and Statistics ¹	4
MATH 115	Ideas of Mathematics	3
MATH 141	Business Calculus	4
MATH 151	Precalculus	4
MATH 250	Single Variable Calculus I	4
MATH 251	Single Variable Calculus II	4
MATH 252	Multivariable Calculus	5
MATH 265	Linear Algebra	4
MATH 266	Ordinary Differential Equations	4
PSYCH 105	Statistics for the Behavioral Sciences (completed Fall 2009 or later)	4

¹ Transfer credit may be limited by UC and/or CSU. Please consult with a counselor for further information.

Area 3: Arts and Humanities

At least three (3) courses, with at least one from the Arts and one from the Humanities, 9 semester units / 12-15 quarter units.

Code	Title	Units
3A: Arts		
Select at least one of the following:		
ANTHRO 109	Visual Culture and Art	3
ARCH 145	History of Architecture: Early Design Through Gothic	3
	or ARCH 145H History of Architecture: Early Design Through Gothic - Honors	
ARCH 146	History of Architecture: Renaissance Through Modern	3
	or ARCH 146H Architecture History: Renaissance to Modern - Honors	
ART 100	Art History: The Stone Age to the Middle Ages	3
ART 102	Art History: Renaissance to Present	3
	or ART 102H Art History: Renaissance to Present - Honors	
ART 103	Art Appreciation ¹	3
ART 105	History of Modern Art	3
ART 107	Art History: Africa, Oceania and the Americas	3
ART 108	Art of Mexico and Mesoamerica	3
DANCE 200	Dance History and Appreciation	3
FTVM 102	Introduction to Media Aesthetics and Cinematic Arts	3
MUS 100	Music Appreciation	3
MUS 101	Music Theory I: Fundamentals	3
MUS 102	Music Theory II: Scales and Modes	3

MUS 104	History of Rock and Roll	3	HIST 140	Chicano History	3
MUS 105	American Popular Music	3	HIST 145	History of California	3
MUS 106	History of Jazz	3	HIST 150	Introduction to Latin American History	3
MUS 107	Music of the World	3	HIST 170	World History to 1500	3
MUS 108	History of Hip Hop Music	3	HIST 171	World History Since 1500	3
MUS 121	Music History and Literature - Middle Ages Through Baroque ¹	3	HIST 176	Comparative History of Genocide and War Crimes	3
or MUS 121H	Music History and Literature - Middle Ages Through Baroque - Honors		PHIL 101	Introduction to Philosophy ¹	3
MUS 122	Music History and Literature - Classic through Contemporary ¹	3	or PHIL 101H	Introduction to Philosophy - Honors	
or MUS 122H	Music History and Literature - Classic Through Contemporary - Honors		PHIL 105	Introduction to Ethics	3
THART 100	Introduction to the Theatre	3	PHIL 112	Philosophy in Literature	3
THART 105	Script Analysis	3	PHIL 180	Death and Dying	3
3B: Humanities					
Select at least one of the following:					
ARAB 102	College Arabic II	5	RELIG 100	Introduction to Religious Studies ¹	3
ANTHRO 108	North American Indians	3	or RELIG 100H	Introduction to Religious Studies-Honors	
ANTHRO 110	Magic, Witchcraft, and Religion	3	RELIG 101	Introduction to World Religions	3
or RELIG 110	Magic, Witchcraft, and Religion		RELIG 110	Magic, Witchcraft, and Religion	3
ASL 111	American Sign Language III	4	or ANTHRO 110	Magic, Witchcraft, and Religion	
ASL 112	American Sign Language IV	4	RELIG 135	Religion in America	3
ENGL 140	Exploring the World of Science Fiction	3	RELIG 150	Introduction to Mythology	3
ENGL 141	Mystery and Detective Fiction	3	RELIG 175	The Literature and Religion of the Bible	3
ENGL 151	Freshman Composition and Literature	3	or ENGL 175	The Literature and Religion of the Bible	
or ENGL 151H	Freshman Composition and Literature - Honors		RELIG 176	Jesus and His Interpreters	3
ENGL 153	Literature and Film	3	RELIG 180	Death and Dying	3
ENGL 155	Children's Literature	3	SPAN 102	College Spanish II	5
ENGL 161	Women Writers	3	or SPAN 102H	College Spanish II - Honors	
ENGL 163	Chicano Literature	3	SPAN 103	College Spanish III ¹	4
ENGL 165	African-American Literature	3	or SPAN 103H	College Spanish III - Honors	
ENGL 175	The Literature and Religion of the Bible	3	SPAN 104	College Spanish IV	4
or RELIG 175	The Literature and Religion of the Bible		SPAN 157	Spanish for Heritage Speakers I	4
ENGL 260	American Literature to Mid 19th Century	3	SPAN 158	Spanish for Heritage Speakers II	4
ENGL 261	American Literature From 1865 to Present	3			
ENGL 270	English Literature: Middle Ages to 18th Century	3			
or ENGL 270H	English Literature: Middle Ages to 18th Century - Honors				
ENGL 271	English Literature: 18th Century to Present	3			
or ENGL 271H	English Literature: 18th Century to Present - Honors				
ENGL 275	Shakespeare	3			
ENGL 280	World Literature: to 17th Century	3			
ENGL 281	World Literature: 17th Century To Present	3			
FRENCH 102	College French II	5			
HIST 100	United States History to 1877	3			
or HIST 100H	United States History to 1877 - Honors				
HIST 101	United States History: 1865 to Present	3			
or HIST 101H	United States History: 1865 to Present - Honors				
HIST 107	The United States and the North American Indians	3			
HIST 137	Racial and Ethnic Groups in United States History	3			
HIST 138	African-American History to 1877	3			
HIST 139	African-American History 1877 to Present	3			

¹ Transfer credit may be limited by UC and/or CSU. Please consult with a counselor for further information.

Area 4: Social and Behavioral Sciences

At least three courses from at least two disciplines or an interdisciplinary sequence, 9 semester units / 12-15 quarter units.

Code	Title	Units
Select three of the following from at least two disciplines or an interdisciplinary sequence:		
9		
ANTHRO 100	Introduction to Archaeology	3
ANTHRO 102	Cultural Anthropology	3
or ANTHRO 102H	Cultural Anthropology - Honors	
ANTHRO 103	Anthropology of Food	3
ANTHRO 106	Biological Anthropology ¹	3
or ANTHRO 106H	Biological Anthropology - Honors	
ANTHRO 108	North American Indians	3
ANTHRO 109	Visual Culture and Art	3
ANTHRO 110	Magic, Witchcraft, and Religion	3
or RELIG 110	Magic, Witchcraft, and Religion	
ANTHRO 125	Language and Culture	3
CD 105	Child Growth and Development ¹	3
or CD 105H	Child Growth and Development - Honors	

CD 108	Early Childhood Development	3
CD 126	Child, Family, and the Community	3
COMMST 135	Mass Media and Society	3
COMMST 174	Intercultural Communication	3
COMMST 176	Gender Differences in Communication	3
ECON 100	Introduction to Economics ¹	3
ECON 200	Principles of Macroeconomics ¹	3
	or ECON 200H Principles of Macroeconomics - Honors	
ECON 201	Principles of Microeconomics ¹	3
	or ECON 201H Principles of Microeconomics - Honors	
FTVM 101	Introduction to Electronic Media	3
GEOG 102	Cultural Geography	3
GEOG 106	Geographic Perspectives on the Environment	3
GEOG 118	California Geography	3
GEOG 120	World Regional Geography	3
HIST 100	United States History to 1877	3
	or HIST 100H United States History to 1877 - Honors	
HIST 101	United States History: 1865 to Present	3
	or HIST 101H United States History: 1865 to Present - Honors	
HIST 107	The United States and the North American Indians	3
HIST 137	Racial and Ethnic Groups in United States History	3
HIST 138	African-American History to 1877	3
HIST 139	African-American History 1877 to Present	3
HIST 140	Chicano History	3
HIST 145	History of California	3
HIST 150	Introduction to Latin American History	3
HIST 170	World History to 1500	3
HIST 171	World History Since 1500	3
HIST 176	Comparative History of Genocide and War Crimes	3
KIN 202	History of Physical Education and Sport In the United States	3
PHIL 180	Death and Dying	3
POLIT 100	American Politics	3
POLIT 110	Introduction to Political Theory ¹	3
	or POLIT 110H Introduction to Political Theory - Honors	
POLIT 140	Introduction to Comparative Politics	3
POLIT 141	Introduction to World Politics	3
	or POLIT 141H Introduction to World Politics - Honors	
PSYCH 100	General Psychology ¹	3
	or PSYCH 100H General Psychology - Honors	
PSYCH 102	Personal and Social Adjustment	3
PSYCH 110	Abnormal Psychology	3
PSYCH 111	Developmental Psychology: Lifespan ¹	3
PSYCH 112	Developmental Psychology: Child and Adolescent Psychology ¹	3
PSYCH 118	Human Sexual Behavior	3
RELIG 110	Magic, Witchcraft, and Religion	3
	or ANTHRO 110C Magic, Witchcraft, and Religion	
RELIG 180	Death and Dying	3
SOC 100	Introduction to Sociology ¹	3
	or SOC 100H Introduction to Sociology - Honors	
SOC 110	Social Problems	3

or SOC 110H	Social Problems - Honors	
SOC 120	Health and Social Justice	3
SOC 130	Family Sociology	3
SOC 135	Introduction to Crime	3
SOC 141	Race and Ethnic Relations	3
SOC 145	Sociology of Gender	3
SOC 150	Aging and the Life Course	3

¹ Transfer credit may be limited by UC and/or CSU. Please consult with a counselor for further information.

Area 5: Physical and Biological Sciences

Two (2) courses, one Physical Science course and one Biological course. At least one must include a laboratory. 7-9 semester units / 9-12 quarter units.

Code	Title	Units
5A: Physical Science		
Select one of the following:		3-6
ASTRON 120	Introduction to Astronomy	3
ASTRON 125	Astronomy Laboratory ²	1
CHEM 101	Introductory Chemistry ^{1,2}	4
CHEM 104	Introduction to Organic Chemistry and Biochemistry ^{1,2}	4
CHEM 105	Introduction to General, Organic And Biochemistry ²	5
CHEM 150	General Chemistry I ^{1,2}	5
CHEM 151	General Chemistry II ^{1,2}	5
CHEM 212	Organic Chemistry I ^{1,2}	4
CHEM 213	Organic Chemistry II ^{1,2}	4
ENVT 100	Introduction to Environmental Science	3
GEOG 110	Physical Geography ¹	3
GEOG 111	Physical Geography Laboratory ^{1,2}	1
	or GEOG 111H Physical Geography Laboratory - Honors	
GEOG 114	Weather and Climate ²	4
GEOL 101	Introduction to Physical Geology	3
GEOL 111	Introduction to Physical Geology Laboratory ²	1
GEOL 112	Historical Geology ²	4
GEOL 122	Environmental Geology	3
GEOL 250	Geology of California	3
GEOL 251	Geology of the National Parks and Monuments	3
OCEAN 101	Elements of Oceanography	3
OCEAN 111	Elements of Oceanography Laboratory ²	1
PHYSIC 101	Introductory Physics ^{1,2}	4
PHYSIC 151	General Physics for the Life Sciences I	4
PHYSIC 152	General Physics for the Life Sciences II	4
PHYSIC 202	Physics I	4
PHYSIC 203	Physics II	4
PHYSIC 204	Physics III	4
5B: Biological Science		
Select one of the following:		3-6
ANTHRO 106	Biological Anthropology ¹	3
	or ANTHRO 106C Biological Anthropology - Honors	
ANTHRO 106L	Biological Anthropology Laboratory ²	1
BIOL 100	General Biology ^{1,2}	4

BIOL 102	Human Biology	3	or HIST 101H	United States History: 1865 to Present - Honors	
BIOL 104	Human Ecology	3	HIST 137	Racial and Ethnic Groups in United States History	3
BIOL 109	History of Life ²	4	HIST 139	African-American History 1877 to Present	3
or BIOL 109H	History of Life - Honors		HIST 140	Chicano History	3
BIOL 141	Genetics	3			
BIOL 205	Cell and Molecular Biology ²	4			
BIOL 206	Organismal Biology ²	4			
BIOL 207	Evolutionary Ecology ²	4			
BIOL 250	Human Anatomy and Physiology I ^{1,2}	4			
BIOL 251	Human Anatomy and Physiology II ^{1,2}	4			
BIOL 260	Human Anatomy ^{1,2}	4			
BIOL 261	Human Physiology ^{1,2}	4			
BIOL 270	Microbiology ²	5			
PSYCH 141	Introduction to Biological Psychology	3			

¹ Transfer credit may be limited by UC and/or CSU. Please consult with a counselor for further information.

² Laboratory class.

Area 6: Languages other than English

(UC requirement only)

Proficiency equivalent to two (2) years of high school study in the same language or one of the following:

Code	Title	Units
Select one of the following:		4-5
ARAB 101	College Arabic I	5
ARAB 102	College Arabic II	5
ASL 109	American Sign Language I	4
CHIN 101	College Mandarin Chinese I	5
CHIN 102	College Mandarin Chinese II	5
FRENCH 101	College French I	5
SPAN 101	College Spanish I	5
or SPAN 101H	College Spanish I - Honors	
SPAN 102	College Spanish II	5
or SPAN 102H	College Spanish II - Honors	
SPAN 157	Spanish for Heritage Speakers I	4

CSU Graduation Requirements in U.S. History, Constitution and American Ideals

Any combination of one course from **each** of the following lists of politics and history areas will normally fulfill this requirement. (Not part of IGETC; may be completed prior to transfer). Courses may be applied toward areas 3B and/or 4.

Code	Title	Units
Group 1		
POLIT 100	American Politics	3
Group 2		
Select one of the following:		3
HIST 100	United States History to 1877	3
or HIST 100H	United States History to 1877 - Honors	
HIST 101	United States History: 1865 to Present	3

DEGREE AND CERTIFICATE PROGRAM INDEX

Associate Degree Majors

San Bernardino Valley College offers associate degree majors in most departments listed in this catalog. Refer to the chart below for a complete list of associate degree majors. Refer to the particular department for course descriptions and a complete list of the courses required for that major.

Length of Programs

San Bernardino Valley College offers a wide variety of associate degrees and certificate programs. The amount of time it will take a student to complete an associate degree depends on whether one is attending full-time or part-time, on the student's level of preparation, and on the number of prerequisite courses required. Typically, a student attending full-time with few prerequisite requirements may complete an associate degree in two years. Students attending part-time could take as long as four or five years, or more.

The amount of time it will take to complete a certificate program will depend on whether the student is attending full-time or part-time, the number of units required for the certificate, the rotation of courses over a one- or two-year sequence, and the number of prerequisite courses the student is required to take. A very limited number of certificate programs can be completed in one semester. The majority will take one or two years if the student attends full-time however, the length of the certificate program may vary. Consult with a counselor for more information.

Degree Index

These are the Associate Degree major/areas of emphasis and Certificates currently available at San Bernardino Valley College. The courses to fulfill the requirements for each listed program are detailed in the following pages. All courses are used to fulfill Associate Degree majors and state or locally approved Certificates must be completed with a minimum grade of C. All programs are subject to change; students should consult with a counselor for further information.

Accounting

Accounting, as the language of business, is concerned with how businesses report their transactions and how they interpret the summaries of those transactions. Accountants record and summarize the economic events within a business. In addition, they interpret financial information and conduct solvency and profitability analyses to serve as a basis for sound business decisions. Within the mission of the college, the Accounting Department has several objectives: Provide high quality accounting and business programs, which will prepare our students for successful careers in business and government; Provide students with a broad-base understanding of the concepts of accounting, business and management; Provide transfer preparation for universities. Students planning to transfer to a four-year institution and major in accounting should consult with a counselor regarding the transfer process and lower division requirements.

Contact Information

Division: Mathematics, Business, and Computer Technology (B - 127)

Division Phone Number: (909) 384-8520

Department Chair: Michael Assumma (massumma@sbccd.edu), M.B.A.

- Accounting Associate of Arts Degree (p. 62)
- Accounting Certificate of Achievement (p. 62)
- Bookkeeping Certificate of Career Preparation (p. 63)

ACCT 010 3 Units

Bookkeeping

Lecture: 54 contact hours

This is an introductory course for students interested in the accounting field. The focus is basic bookkeeping and accounting principles for small business enterprises. Emphasis is on the development of skills used to record business transactions, as well as the procedures to prepare financial statements and complete the accounting cycle. The course is designed for occupational students and for those who wish preparatory training before entering ACCT 200.

Associate Degree Applicable

ACCT 030 4 Units

Federal and State Individual Income Taxation

Lecture: 72 contact hours

This course is an introduction to the basic concepts of federal and state individual income taxation. Topics include history and objectives of the income taxes system, analysis of current income taxes issues, and the tax treatment of various types of income, deductions, and credits. Tax planning strategies are discussed. Actual tax forms are studied. Comprehensive individual tax returns are prepared.

Associate Degree Applicable

ACCT 047 3 Units

Computerized Accounting

Lecture: 54 contact hours

This course provides a comprehensive overview of accounting software. Topics covered include the analysis of source documents and the use of accounting software to prepare, understand, and interpret financial statements for a variety of management purposes. It also includes creation and use of spreadsheets to find the solutions to accounting problems.

Associate Degree Applicable

ACCT 090 3 Units

Payroll Accounting

Lecture: 54 contact hours

This course is designed to introduce various types of employee compensations and the current federal and state payroll taxes system. Withholding requirements from employees' compensations as well as payroll taxes reporting are studied. Various types of payroll taxes forms are discussed and prepared. This course will focus on the records and control requirements of payroll accounting.

Associate Degree Applicable

ACCT 200 4 Units**Financial Accounting****Lecture:** 72 contact hours**Advisory:** ENGL 101 or ENGL 101H and MATH 095 or MATH 096

This course offers an introduction to accounting information as an aid to decision-making for external users of financial statements. Students learn to measure and record accounting data, prepare financial statements and analyze published financial accounting information. The focus is on the subjects of accounting cycle, the application of generally accepted accounting principles, ethics, the financial statements, and statement analysis.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ACCT 110**ACCT 201 4 Units****Managerial Accounting****Lecture:** 72 contact hours**Prerequisite:** ACCT 200

This course studies the use of accounting information in decision-making, planning, directing operations and controlling. It focuses on cost terms and concepts, cost behavior, cost structure and cost-volume-profit analysis. Issues relating to ethics, cost systems, cost control, profit planning, and performance analysis in manufacturing and service environments are also examined.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ACCT 120

Accounting Associate of Arts Degree

To graduate with a specialization in Accounting, students must complete all requirements for the certificate plus the general breadth requirements for the Associate Degree (minimum total = 60 units)

Code	Title	Units
Required Courses		
ACCT 047	Computerized Accounting	3
ACCT 200	Financial Accounting	4
ACCT 201	Managerial Accounting	4
BUSAD 100	Introduction to Business	3
BUSAD 210	Business Law	3
or BUSAD 211	The Legal Environment of Business	
ECON 208	Business and Economic Statistics	4
or MATH 108	Introduction to Probability and Statistics	
ECON 200	Principles of Macroeconomics	3
or ECON 200H	Principles of Macroeconomics - Honors	
ECON 201	Principles of Microeconomics	3
or ECON 201H	Principles of Microeconomics - Honors	
Total Units		27

Code	Title	Units
Recommended Courses		
ACCT 030	Federal and State Individual Income Taxation	4
ACCT 090	Payroll Accounting	3
CIT 101	Introduction to Computer Literacy	3
CIT 114	Spreadsheets: Excel	3
MATH 102	College Algebra	4

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate an ability to perform fundamental accrual adjustments through journal entries, using their understanding of revenue, expense, asset, liability and owner's equity accounts
- Analyze and explain the preparation of financial reporting by applying GAAP and financial analysis
- Develop, implement, and evaluate an accounting system by examining the internal and external reporting requirements of a business entity
- Demonstrate the ability to use accounting information for decision making through use of financial ratio analysis, CVP analysis, budget reports and performance measurement tools
- Identify and communicate alternative problems effectively, recommend solutions, and provide an implementation strategy in oral written and electronic form
- Consider the ethical and social responsibility issues affecting the current business environment
- Demonstrate an understanding of and familiarity with the world of business and its related terminology
- Apply the methods of effective business communication

Accounting Certificate of Achievement

This certificate is designed to prepare students for entry-level positions, updating and maintaining accounting records, calculating disbursements and receipts, tracking accounts payable and receivable, and determining profit and loss.

Code	Title	Units
Required Courses		
ACCT 047	Computerized Accounting	3
ACCT 200	Financial Accounting	4
ACCT 201	Managerial Accounting	4
BUSAD 100	Introduction to Business	3
BUSAD 210	Business Law	3
or BUSAD 211	The Legal Environment of Business	
ECON 208	Business and Economic Statistics	4
or MATH 108	Introduction to Probability and Statistics	
ECON 200	Principles of Macroeconomics	3
or ECON 200H	Principles of Macroeconomics - Honors	
ECON 201	Principles of Microeconomics	3
or ECON 201H	Principles of Microeconomics - Honors	
Total Units		27

Code	Title	Units
Recommended Courses		
ACCT 030	Federal and State Individual Income Taxation	4
ACCT 090	Payroll Accounting	3
MATH 102	College Algebra	4
CIT 101	Introduction to Computer Literacy	3
CIT 114	Spreadsheets: Excel	3

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate the ability to organize, analyze, and interpret measurable business transactions
- Prepare financial statements by applying Generally Accepted Accounting Principles
- Communicate financial and managerial accounting information applying common methods of business communication
- Demonstrate an understanding of the world of business
- Identify ethical and social responsibility issues facing today's business

Bookkeeping Certificate of Career Preparation

Bookkeeping clerks along with accounting and auditing clerks are an organization's financial record keepers. They update and maintain one or more accounting records. All of these clerks make numerous computations each day. In small businesses, bookkeeping clerks handle all financial transactions and record keeping. In large offices and accounting departments, the clerks have more specialized tasks, such as accounts payable or accounts receivable. The responsibilities vary by level of experience.

Code	Title	Units
Required Courses		
ACCT 010	Bookkeeping	3
ACCT 090	Payroll Accounting	3
ACCT 047 or CIT 114	Computerized Accounting Spreadsheets: Excel	3
Total Units		9

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

Program Learning Outcomes

At the completion of this program, students will be able to:

- Understand the role and the duties of a bookkeeper within the framework of the required accounting activities in a business setting
- Explain and apply the concepts of cash vs. accrual basis accounting, double entry bookkeeping as well as the debits and credits
- Prepare basic payroll transactions ranging from paying wages to depositing and reporting payroll taxes

- Make appropriate and accurate accounting entries for a variety of financial records

Administration of Justice

The Administration of Justice Department strives to provide our students with the legal, ethical and educational background necessary to pursue a career in a criminal justice-related field and to successfully transition into a 4-year academic program.

The Administration of Justice discipline involves the study of the theory and practice of law, law enforcement, the courts, and corrections systems. Law enforcement specializes in police activities including effective investigation and patrol services to the public. The courts specialize in responsibilities to the public through the trial system. The corrections systems specialize in the punishment and incarceration process as well as rehabilitation of the offender. Private security services explore private protection through private agencies.

Administration of Justice offers a wide range of career opportunities. Students interested in careers as peace officers should refer to the Department of Police Science in this catalog. Students planning to transfer to a four-year institution and major in Administration of Justice should consult with a counselor regarding the transfer process and lower division requirements. The Administration of Justice courses listed may not be offered every semester due to instructor availability. Please refer to the college semester class schedule offerings.

Any felony or domestic violence conviction, or any significant prior or current drug use will disqualify most people seeking jobs in law enforcement, corrections, probation/parole, or forensics.

Contact Information

Division: Social Sciences, Human Development, and Physical Education (NH - 345)

Division Phone Number: (909) 384-8603

Faculty Chair: Jeremy Croy (%20jcroy@sbccd.edu), Ed.D.

- Administration of Justice Associate of Arts Degree (p. 64)
- Administration of Justice Associate of Science Transfer Degree (p. 65)
- Administration of Justice Certificate of Achievement (p. 66)

ADJUS 101 3 Units

Introduction to Administration of Justice

Lecture: 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an introduction to the philosophy and history of the criminal justice system including the roles and functions of the local, state, and federal jurisdictions. Additional discussion topics will include the roles, functions and interrelationships among law enforcement agencies, courts and corrections as well as crime causation, correctional theory, analysis, and the social impact of crime.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: AJ 110

ADJUS 102 3 Units**Principles and Procedures of the Justice System****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course provides an examination and analysis of due process in criminal proceedings, from pre-arrest through trial and appeal, utilizing statutory, state and constitutional precedents.

Associate Degree Applicable**Transfers to CSU only****C-ID:** AJ 122**ADJUS 103 3 Units****Concepts of Criminal Law****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an introduction to common law, legal concepts, codes and their history, and the philosophy and development of U.S. criminal law.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** AJ 120**ADJUS 104 3 Units****Legal Aspects of Evidence****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course examines the origin, development, philosophy, and constitutional basis of the use of evidence. It also incorporates constitutional and procedural considerations affecting arrest, search and seizure, types of evidence, and rules governing admissibility, judicial decisions, and interpretation of individual rights. Case studies will also be covered in this class.

Associate Degree Applicable**Transfers to CSU only****C-ID:** AJ 124**ADJUS 105 3 Units****Community Relations****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course examines the complex and dynamic relationship between communities and the justice system in addressing crime and conflict with an emphasis on the challenges of administering justice within a diverse multicultural population. Topics include the consensus and conflicting values in culture, religion, and the law.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** AJ 160**ADJUS 106 3 Units****Principles of Investigation****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course covers the principles of various types of investigations utilized in the criminal justice system, including concepts of investigation, and the analysis, evaluation, preservation and documentation of evidence. The course will also include dealing with the public, techniques for handling crime scenes, interviews, evidence, surveillance, follow-up, technical resources, and case preparation.

Associate Degree Applicable**Transfers to CSU only****C-ID:** AJ 140**ADJUS 107 3 Units****Concepts of Enforcement Services****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course examines the theories, philosophies, and concepts related to the role expectations of line enforcement officers. The emphasis is focused on patrol, traffic and public service responsibilities and their relationships to the administration of justice.

Associate Degree Applicable**Transfers to CSU only****ADJUS 108 3 Units****Juvenile Procedures****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an examination of the origin, development, and organization of the Juvenile Justice System as it evolved in the American Justice System. The course explores the theories that focuses on juvenile law, courts and processes, and the constitutional protections extended to juveniles administered by the American Justice System.

Associate Degree Applicable**Transfers to CSU only****C-ID:** AJ 220

Administration of Justice Associate of Arts Degree

To graduate with a specialization in Administration of Justice, students must complete all requirements for the certificate plus the general breadth requirements for the Associate Degree (minimum total = 60 units).

Code	Title	Units
Required Courses		
ADJUS 101	Introduction to Administration of Justice	3
ADJUS 102	Principles and Procedures of the Justice System	3
ADJUS 103	Concepts of Criminal Law	3
ADJUS 104	Legal Aspects of Evidence	3
ADJUS 105	Community Relations	3
Select two of the following:		
ADJUS 106	Principles of Investigation	3
ADJUS 107	Concepts of Enforcement Services	3
ADJUS 108	Juvenile Procedures	3
CORREC 101	Introduction to Corrections	3

CORREC 102	Correctional Interviewing and Counseling	3
CORREC 103	Gangs and Corrections	3
CORREC 104	Control and Supervision in Corrections	3
CORREC 105	Legal Aspects of Corrections	3
CORREC 106	Probation and Parole	3
Total Units		21

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Apply knowledge and skills required in securing and maintaining employment
- Analyze the interrelations between the courts, law enforcement, and corrections
- Demonstrate the sequence of events necessary in determining admissibility or suppression of evidence
- Demonstrate analysis of basic legal definitions of criminal law
- Develop a world view that values why law enforcement is necessary in diverse populations and societies

Administration of Justice Associate of Science Transfer Degree

Administration of Justice is the study of the causes, consequences and control of crime. The program leading to the Associate in Science in Administration of Justice for Transfer (AS-T) is designed to acquaint pre-service and in-service students with the principles and practices of criminal justice systems in America. The goal of this program is to familiarize students with a foundation in the Criminal Justice sub-systems: Law Enforcement, Correctional Science, Criminology, Forensics, Investigations, and the Judicial /Court's role. The program is both academic and professional in that it is an interdisciplinary attempt to relate intellectual issues and practitioner perspectives to the challenge of crime in a free society. Consequently, the program provides preparation for employment with a related agency and /or transfer to a college or university.

Students will be prepared to work in a variety of fields, including: public law enforcement agencies such as municipal police, CHP, probation officers, county deputy sheriffs, correctional officers, game wardens, state park rangers, and private security. Students completing the AS-T in Administration of Justice degree will be able to transfer to the California State University systems and be prepared to study in the following areas: Administration of Justice, Law Enforcement, Correctional Science, Social Science/Criminology, Forensics, and Pre- Law.

The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an 'associate degree

for transfer', a newly established variation of the associate degrees traditionally offered at a California community college. The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated 'high unit' major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

To earn this AS-T degree, students must meet the following requirements:

- completion of the following major requirements with grades of C or better;
- completion of a minimum of 60 CSU transferable semester units with a grade point average of at least 2.0; and
- Certified completion of the CSU General Education-Breadth (CSUGE) or Intersegmental General Education Transfer Curriculum (IGETC) for CSU, which requires a minimum of 39 units.

It is highly recommended that students complete courses that satisfy the U.S. History, Constitution, and American Ideals requirement as part of CSUGE or IGETC before transferring to a CSU. Students planning to transfer to a four-year institution and major in Administration of Justice should consult with a counselor regarding the transfer process and lower division requirements.

Code	Title	Units
Required Core Courses		
ADJUS 101	Introduction to Administration of Justice	3
ADJUS 103	Concepts of Criminal Law	3
List A - Select two of the following:		6
ADJUS 102	Principles and Procedures of the Justice System	3
ADJUS 104	Legal Aspects of Evidence	3
ADJUS 105	Community Relations	3
ADJUS 106	Principles of Investigation	3
ADJUS 108	Juvenile Procedures	3
CORREC 101	Introduction to Corrections	3
List B - Select two of the following (any course not used from List A):		6-8
CIT 101	Introduction to Computer Literacy	3
ENGL 102	Intermediate Composition and Critical Thinking	4
	or ENGL 102H Intermediate Composition and Critical Thinking - Honors	
MATH 102	College Algebra	4
MATH 108	Introduction to Probability and Statistics	4
MATH 115	Ideas of Mathematics	3
PHIL 103	Introduction to Logic: Argument and Evidence	3
POLIT 100	American Politics	3
PSYCH 100	General Psychology	3
	or PSYCH 100H General Psychology - Honors	

SOC 100	Introduction to Sociology	3
or SOC 100H	Introduction to Sociology - Honors	
Code	Title	Units
Major Total		18-20
General Education (CSU-GE or IGETC) Units		37-39
Elective (CSU Transferable) Units		0-3
Total Units		60

See Section on Degree, Certificate, and Transfer Information for additional information on the Associate Degrees for Transfer.

To earn an SBVC Associate Degree for Transfer (AA-T or AS-T) students must complete one of the following general education patterns:

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Critically analyze and evaluate the admissibility or exclusion of evidence based upon fourth and fifth amendment protections; evaluate and describe the various types of evidence
- Critically analyze and evaluate the proper procedures in conducting a criminal investigation involving crimes against persons, property, sex crimes, crimes against children, bombs and explosives, and vice and narcotics
- Critically analyze and describe the role and responsibilities of Forensic criminalists in conducting a criminal investigation
- Critically evaluate the challenges and strategies of the Criminal Justice System within a diverse and multicultural society
- Critically analyze and describe the development of the penal institutions in the United States; describing the goals, challenges, responsibilities and strategies of the correctional institutions
- Critically analyze and describe the development of the Juvenile Justice System in the United States; explaining the juvenile court procedures and Constitutional protections prescribed by United States Supreme Court decisions

Administration of Justice Certificate of Achievement

The Administration of Justice certificate is designed to prepare students for entry-level positions in a wide range of law enforcement services, including the courts, corrections, law enforcement, and private security.

Code	Title	Units
Required Courses		
ADJUS 101	Introduction to Administration of Justice	3
ADJUS 102	Principles and Procedures of the Justice System	3
ADJUS 103	Concepts of Criminal Law	3
ADJUS 104	Legal Aspects of Evidence	3
ADJUS 105	Community Relations	3
Select two of the following:		6
ADJUS 106	Principles of Investigation	3

ADJUS 107	Concepts of Enforcement Services	3
ADJUS 108	Juvenile Procedures	3
CORREC 101	Introduction to Corrections	3
CORREC 102	Correctional Interviewing and Counseling	3
CORREC 103	Gangs and Corrections	3
CORREC 104	Control and Supervision in Corrections	3
CORREC 105	Legal Aspects of Corrections	3
CORREC 106	Probation and Parole	3
Total Units		21

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Apply knowledge and skills required in securing and maintaining employment
- Analyze the interrelations between the courts, law enforcement, and corrections
- Demonstrate the sequence of events necessary in determining admissibility or suppression of evidence
- Demonstrate analysis of basic legal definitions of criminal law
- Develop a world view that values why law enforcement is necessary in diverse populations and societies
- Use advanced Word Processing features for business applications
- Type 60 words per minute
- Use PC-based database management system

Aeronautics

The Aeronautics Department curriculum offers students several ways to qualify for employment in the aviation industry. Students may pursue an Associate of Science degree or certificates in Airframe and Powerplant Technology. Students desiring specific ratings or licenses should consult with faculty in the Aeronautics Department and/or the Federal Aviation Administration. Students planning to transfer to a four-year institution and major in aeronautics should consult with a counselor regarding the transfer process and lower division requirements.

Contact Information

Division: Applied Technology, Transportation, and Culinary Arts

Division Phone Number: (909) 384-4451

Faculty Chair: Tarif (Terry) Halabi (thalabi@sbccd.edu), M.S.E.E.

- Aviation Maintenance Technician Associate of Science Degree (p. 70)
- Flight Operations and Management Associate of Science Degree (p. 72)
- Airframe Maintenance Technician Certificate of Achievement (p. 70)
- Aviation Maintenance Technician Certificate of Achievement (p. 71)
- Flight Operations Certificate of Achievement (p. 72)

- Powerplant Maintenance Technician Certificate of Achievement (p. 73)

AERO 015 2 Units**Nano Composite Technology****Lecture:** 18 contact hours**Lab:** 54 contact hours

This course is an introduction to Nano Composite Structures including the manufacturing, uniqueness, strength and repair methods in the aviation field and any related fields using composites technology.

Associate Degree Applicable**AERO 021 3 Units****Aviation Fundamentals****Lecture:** 54 contact hours

This course is an introduction to the basic principles of aeronautics, aircraft structure and operations including space, rocketry and aeronautical occupations.

Associate Degree Applicable**AERO 022 6 Units****Private Pilot Ground School****Lecture:** 108 contact hours

This course offers complete preparation for the Federal Aviation Administration (FAA) private pilot written examination including aerodynamics, weight and balance, airports and airspace, meteorology, using aviation services, flight information publications, federal air regulations, navigation, radio navigation aids, cross-country flight planning, physiology of flight, and airborne emergencies.

Associate Degree Applicable**AERO 024 3 Units****Aircraft Powerplants****Lecture:** 54 contact hours

This course is designed to familiarize the student with the operating principles and construction highlights of both reciprocating and jet aircraft engines including internal combustion engines, jet propulsion engines, aircraft fuels and fuel systems, electrical and ignition systems, lubricants and lubrication systems, propellers, engine instrument and control systems, engine inspection, operation and troubleshooting.

Associate Degree Applicable**AERO 025 2 Units****Flight Safety****Lecture:** 36 contact hours

This course is an in-depth study of flight safety including: organizations contributing to flight safety, Pilot and passenger responsibilities, emergency radio procedures, pilot resources, ground safety, mid-air collisions, weather and night flight hazards and precautions, emergency procedures, medical factors, human factors, and crash investigation and liability.

Associate Degree Applicable**AERO 026 3 Units****Airframe Structures****Lecture:** 54 contact hours

This course is designed to familiarize the aviator or prospective pilot with the fundamentals of aircraft design and construction including: aircraft structural components, fundamentals of aerodynamics and flight, materials and hardware, ice and rain protection, hydraulic and pneumatic systems, landing gear systems, fire protection systems, electrical systems, instrument systems, weight and balance control, and blue print reading.

Associate Degree Applicable**AERO 027 2 Units****Airport Certification and Operations****Lecture:** 36 contact hours

This course covers airport certification and operations including applicability, definitions, certificate requirements, and process, Airport Certification Manual (ACM), record keeping, personnel requirements, markings, signs, and lighting, airport emergency plan, wildlife hazard management, and unmanned aerospace vehicles (UAV)(drones) issues.

Associate Degree Applicable**AERO 034 3 Units****Civil Aviation Management and Laws****Lecture:** 54 contact hours

This course covers the history of civil aviation in the United States including: federal legislation on civil aviation, international treaties and agreements relevant to civil aviation, and regulations pertaining to the management of airports, air carriers, general aviation, international air transport, and the air cargo industry.

Associate Degree Applicable**AERO 040 4 Units****Instrument Ground School****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course examines the fundamentals of instrument flight in the Air Traffic Control (ATC) system and factors that can affect the operation including aerodynamics, navigation, flight planning, and communication. The subject matter is reinforced by flying various procedures in flight simulators. This course can be used as a method to meet the Federal Aviation Administration (FAA) requirements for the ground instruction portion of a Biennial Flight Review (BFR) as specified in Federal Aviation Regulations (FAR) 61.56.

Associate Degree Applicable**AERO 046 3 Units****Aviation Weather****Lecture:** 54 contact hours

This course covers the aspects of weather as they relate to aircraft operation and safety. Includes: Basic and hazardous weather, atmospheric winds, pressure systems as associated with weather, cloud formation, air masses and fronts, thunderstorms, turbulence and icing, fog, haze and smoke, high altitude, arctic and tropical weather, interpretation of weather reports, forecast, charts and maps.

Associate Degree Applicable**AERO 050 5 Units****General/Calculations and Basic Electricity Airframe and Powerplant Technologies****Lecture:** 90 contact hours**Corequisite:** AERO 050L

This course provides training for the General requirements of the Aviation Maintenance Technician Certificate. Areas of study include familiarization of basic hand tools, applications of mathematics, basic physics, certain Federal Aviation Regulations (FARs), basic electricity including application of Ohm's Law, electrical terms, units of measure, types of electrical circuits, reading and interpreting electrical diagrams, and electrical components familiarization. (Formerly AERO 100)

Associate Degree Applicable

AERO 050L 2 Units**General Laboratory/Calculations And Basic Electricity Airframe and Powerplant Technologies****Lab:** 108 contact hours**Corequisite:** AERO 050

This course provides training for the General requirements of the Aviation Maintenance Technician Certificate. The content includes the use of basic hand tools, applications of mathematics, basic physics, certain Federal Aviation Regulations (FARs), basic electricity including application of Ohm's Law, use of a volt/ohm meter, interpret electrical circuit diagrams, service and inspection of batteries. (Formerly AERO 100L)

Associate Degree Applicable**AERO 051 5 Units****General/Materials and Servicing Airframe and Powerplant Technologies****Lecture:** 90 contact hours**Corequisite:** AERO 051L

This course provides training for the General requirements of the Aviation Maintenance Technician Certificate. Areas of instruction include aircraft weight and balance control, basic drafting, aircraft fluid lines and fittings, aircraft hardware, materials, non-destructive testing processes, corrosion control, aircraft cleaning and ground operations and handling. (Formerly AERO 101)

Associate Degree Applicable**AERO 051L 2 Units****General Laboratory/Materials and Servicing Airframe and Powerplant Technologies****Lab:** 108 contact hours**Corequisite:** AERO 051

This course provides training for the General requirements of the Aviation Maintenance Technician Certificate. Areas of instruction include aircraft weight and balance control, basic drafting, aircraft fluid lines, fittings, aircraft hardware, materials, non-destructive testing processes, corrosion control, aircraft cleaning, and ground operations and handling. (Formerly AERO 101L)

Associate Degree Applicable**AERO 052 6 Units****Airframe Maintenance - Structures****Lecture:** 108 contact hours**Corequisite:** AERO 052L

This course provides training for the Airframe requirements of the Airframe Maintenance Technician Certificate and the Aviation Maintenance Technician Certificate. Areas of instruction include airframe structures, aircraft covering, aircraft finishing, theory of flight, assembly and rigging, structural repair, aircraft inspection, and aircraft fuel systems. (Formerly AERO 102)

Associate Degree Applicable**AERO 052L 5 Units****Airframe Maintenance Laboratory - Structures****Lab:** 270 contact hours**Corequisite:** AERO 052

This course provides training for the Airframe requirements of the Airframe Maintenance Technician Certificate and the Aviation Maintenance Technician Certificate. Areas of instruction include airframe structures, aircraft covering, aircraft finishing, theory of flight, assembly and rigging, structural repair, aircraft inspection, and aircraft fuel systems. (Formerly AERO 102L)

Associate Degree Applicable**AERO 053 6 Units****Airframe Maintenance - Systems and Components****Lecture:** 108 contact hours**Corequisite:** AERO 053L

This course provides training for the Airframe requirements of the Airframe Maintenance Technician Certificate and the Aviation Maintenance Technician Certificate. Topics of study include aircraft welding, electrical circuits, and basic aircraft systems for power, landing, brakes warning instrumentation, autopilot, cabin atmosphere control, ice and rain control, fire protection and communications. (Formerly AERO 103)

Associate Degree Applicable**AERO 053L 5 Units****Airframe Maintenance Laboratory - Systems and Components****Lab:** 270 contact hours**Corequisite:** AERO 053

This course provides training for the Airframe requirements of the Airframe Maintenance Technician Certificate and the Aviation Maintenance Technician Certificate. Topics of instruction include aircraft welding, electrical circuits, and basic aircraft systems for power, landing, brakes warning instrumentation, auto pilot, cabin atmosphere control, ice and rain control, fire protection and communications. (Formerly AERO 103L)

Associate Degree Applicable**AERO 054 6 Units****Powerplant Maintenance - Reciprocating Engine Overhaul****Lecture:** 108 contact hours**Corequisite:** AERO 054L

This course provides training for the Powerplant requirements of the Powerplant Maintenance Technician Certificate and the Aviation Maintenance Technician Certificate. Topics of study include reciprocating engine theory, overhaul, inspections, lubricating systems, indicating systems, fire protection systems, and engine fuel systems. (Formerly AERO 104)

Associate Degree Applicable**AERO 054L 5 Units****Powerplant Maintenance Laboratory - Reciprocating Engine Overhaul****Lab:** 270 contact hours**Corequisite:** AERO 054

This course provides training for the Powerplant requirements of the Powerplant Maintenance Technician Certificate and the Aviation Maintenance Technician Certificate. Topics of study include reciprocating engine theory, overhaul, inspections, lubricating systems, indicating systems, fire protection systems, and engine fuel systems. (Formerly AERO 104L)

Associate Degree Applicable**AERO 055 6 Units****Powerplant Maintenance - Accessory Overhaul****Lecture:** 108 contact hours**Corequisite:** AERO 055L

This course provides training for the Powerplant requirements of the Powerplant Maintenance Technician Certificate and the Aviation Maintenance Technician Certificate. Topics of study include electricity, ignition, fuel, fuel metering, induction, cooling, exhaust, propellers, turbine engines and auxiliary power units. (Formerly AERO 105)

Associate Degree Applicable

AERO 055L 5 Units**Powerplant Maintenance Laboratory - Accessory Overhaul****Lab:** 270 contact hours**Corequisite:** AERO 055

This course provides training for the Powerplant requirements of the Powerplant Maintenance Technician Certificate and the Aviation Maintenance Technician Certificate. Areas of instruction include electrical power generation, ignition, fuel and fuel metering, induction, cooling, exhaust, propeller systems, turbine engines and auxiliary power units. (Formerly AERO 105L)

Associate Degree Applicable**AERO 098 1-4 Units****Aeronautics Work Experience****WRKEX:** 60 contact hours

This course involves supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable**AERO 600 Noncredit****Introduction to Aviation Technology****Lecture:** 16 contact hours**Lab:** 48 contact hours

This noncredit introductory course gives students hands-on experience with airframe and powerplant aviation technology. It will focus on aviation principles, maintenance practices, and careers.

AERO 621 Noncredit**Aviation Fundamentals****Lecture:** 54 contact hours

This noncredit course is an introduction to the basic principles of aeronautics, aircraft structure and operations including space, rocketry and aeronautical occupations.

AERO 622 Noncredit**Private Pilot Ground School****Lecture:** 108 contact hours

This noncredit course offers complete preparation for the Federal Aviation Administration (FAA) private pilot written examination including aerodynamics, weight and balance, airports and airspace, meteorology, using aviation services, flight information publications, federal air regulations, navigation, radio navigation aids, cross-country flight planning, physiology of flight, and airborne emergencies.

AERO 624 Noncredit**Aircraft Powerplants****Lecture:** 54 contact hours

This course is designed to familiarize the student with the operating principles and construction highlights of both reciprocating and jet aircraft engines including: internal combustion engines, jet propulsion engines, aircraft fuels and fuel systems, electrical and ignition systems, lubricants and lubrication systems, propellers, engine instrument and control systems, engine inspection, operation and troubleshooting.

AERO 625 Noncredit**Flight Safety****Lecture:** 36 contact hours

This noncredit course is an in-depth study of flight safety including: organizations contributing to flight safety, pilot and passenger responsibilities, emergency radio procedures, pilot resources, ground safety, mid-air collisions, weather and night flight hazards and precautions, emergency procedures, medical factors, human factors, and crash investigation and liability.

AERO 626 Noncredit**Airframe Structures****Lecture:** 54 contact hours

This noncredit course is designed to familiarize the aviator or prospective pilot with the fundamentals of aircraft design and construction including: aircraft structural components, fundamentals of aerodynamics and flight, materials and hardware, ice and rain protection, hydraulic and pneumatic systems, landing gear systems, fire protection systems, electrical systems, instrument systems, weight and balance control, and blueprint reading.

AERO 640 Noncredit**Instrumental Ground School****Lecture:** 54 contact hours**Lab:** 54 contact hours

This noncredit course examines the fundamentals of instrument flight in the Air Traffic Control (ATC) system and factors that can affect the operation including aerodynamics, navigation, flight planning, and communication. The subject matter is reinforced by flying various procedures in flight simulators. This course can be used as a method to meet the Federal Aviation Administration (FAA) requirements for the ground instruction portion of a Biennial Flight Review (BFR) as specified in Federal Aviation Regulations (FAR) 61.56.

AERO 646 Noncredit**Aviation Weather****Lecture:** 54 contact hours

This noncredit course covers the aspects of weather as they relate to aircraft operation and safety. It includes basic and hazardous weather, atmospheric winds, pressure systems as associated with weather, cloud formation, air masses and fronts, thunder storms, turbulence and icing, fog, haze and smoke, high altitude, arctic and tropical weather, interpretation of weather reports, forecast, charts and maps.

AERO 650L Noncredit**General Laboratory/Calculations and Basic Electricity Airframe and Powerplant Technologies****Lab:** 45 contact hours

This noncredit course provides additional training and lab hours for the Airframe Maintenance Technician Certificate as required by the FAA. The content includes the use of basic hand tools, applications of mathematics, basic physics, certain Federal Aviation Regulations (FARs), basic electricity including application of Ohm's Law, use of a volt/ohm meter, interpret electrical circuit diagrams, service and inspection of batteries.

AERO 651L Noncredit**General Laboratory/Materials and Servicing Airframe and Powerplant Technologies****Lab:** 45 contact hours

This noncredit course provides training for the General requirements of the Aviation Maintenance Technician Certificate. Areas of instruction include aircraft weight and balance control, basic drafting, aircraft fluid lines, fittings, aircraft hardware, materials, non-destructive testing processes, corrosion control, aircraft cleaning, and ground operations and handling.

AERO 652L Noncredit**Airframe Maintenance Laboratory - Structures****Lab:** 54 contact hours

This noncredit course provides training for the Airframe requirements of the Airframe Maintenance Technician Certificate and the Aviation Maintenance Technician Certificate. Areas of instruction include airframe structures, aircraft covering, aircraft finishing, theory of flight, assembly and rigging, structural repair, aircraft inspection, and aircraft fuel systems.

AERO 653L Noncredit**Airframe Maintenance Laboratory System and Components****Lab:** 54 contact hours

This noncredit course provides additional training and lab hours for the Airframe Maintenance Technician Certificate as required by the FAA. Topics of instruction include aircraft welding, electrical circuits, and basic aircraft systems for power, landing, brakes warning instrumentation, autopilot, cabin atmosphere control, ice and rain control, fire protection and communications.

AERO 654L Noncredit**Powerplant Maintenance Laboratory - Reciprocating Engine Overhaul****Lab:** 54 contact hours

This noncredit course provides training for the Powerplant requirements of the Powerplant Maintenance Technician Certificate and the Aviation Maintenance Technician Certificate. Topics of study include reciprocating engine theory, overhaul, inspections, lubricating systems, indicating systems, fire protection systems, and engine fuel systems.

AERO 655L Noncredit**Powerplant Maintenance Laboratory - Accessory Overhaul****Lab:** 54 contact hours

This noncredit course provides training for the Powerplant requirements of the Powerplant Maintenance Technician Certificate and the Aviation Maintenance Technician Certificate. Areas of instruction include electrical power generation, ignition, fuel and fuel metering, induction, cooling, exhaust, propeller systems, turbine engines and auxiliary power units.

AERO 900 1 Unit**Lab Studies in Aviation Maintenance Technology****Lab:** 54 contact hours**Prerequisite/Corequisite:** AERO 050L and AERO 051L

This course provides additional laboratory instruction for students lacking mandated hours or projects to complete a training certificate.

Airframe Maintenance Technician Certificate of Achievement

This certificate is designed to prepare students to qualify for the Airframe Certificate issued by the Federal Aviation Administration (FAA), which enables the holder to perform 100 hours and annual inspections on aircraft ranging from small aircraft used in general aviation to jets utilized by commercial airlines. The written examinations are administered by the FAA at computer testing centers. The total program requires 1,150 hours of lecture and laboratory.

Code	Title	Units
Required Courses		
AERO 050	General/Calculations and Basic Electricity Airframe and Powerplant Technologies	5
AERO 050L	General Laboratory/Calculations And Basic Electricity Airframe and Powerplant Technologies	2
AERO 051	General/Materials and Servicing Airframe and Powerplant Technologies	5

AERO 051L	General Laboratory/Materials and Servicing Airframe and Powerplant Technologies	2
AERO 052	Airframe Maintenance - Structures	6
AERO 052L	Airframe Maintenance Laboratory - Structures	5
AERO 053	Airframe Maintenance - Systems and Components	6
AERO 053L	Airframe Maintenance Laboratory - Systems and Components	5
Total Units		36

Code	Title	Units
Recommended Courses		
AERO 015	Nano Composite Technology	2

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Familiarization with and application of general/calculations and basic electricity of aviation as required by the FAA
- Familiarization with and application of general/materials and servicing of aviation as required by the FAA
- Interpret airframe and powerplant manuals
- Perform required inspections on an aircraft
- Troubleshoot aircraft, airframe and powerplant systems
- Service aircraft, airframe and powerplant systems
- Assess the serviceability of parts
- Write descriptive discrepancy reports

Aviation Maintenance Technician Associate of Science Degree

To graduate with a specialization in Aviation Maintenance Technician, students must complete the following requirements with a grade of C or better plus the general breadth requirements for the Associate Degree (minimum total = 60 units). This degree enables the holder to perform 100 hours and annual inspections on aircraft ranging from small aircraft used in general aviation to jets utilized by commercial airlines.

Code	Title	Units
Required Courses		
AERO 050	General/Calculations and Basic Electricity Airframe and Powerplant Technologies	5
AERO 050L	General Laboratory/Calculations And Basic Electricity Airframe and Powerplant Technologies	2
AERO 051	General/Materials and Servicing Airframe and Powerplant Technologies	5
AERO 051L	General Laboratory/Materials and Servicing Airframe and Powerplant Technologies	2
AERO 052	Airframe Maintenance - Structures	6
AERO 052L	Airframe Maintenance Laboratory - Structures	5
AERO 053	Airframe Maintenance - Systems and Components	6
AERO 053L	Airframe Maintenance Laboratory - Systems and Components	5

AERO 054	Powerplant Maintenance - Reciprocating Engine Overhaul	6
AERO 054L	Powerplant Maintenance Laboratory - Reciprocating Engine Overhaul	5
AERO 055	Powerplant Maintenance - Accessory Overhaul	6
AERO 055L	Powerplant Maintenance Laboratory - Accessory Overhaul	5
Total Units		58

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Interpret airframe and powerplant manuals
- Perform required inspections on an aircraft
- Troubleshoot aircraft airframe and powerplant systems
- Service and repair aircraft airframe and powerplant systems
- Assess the serviceability of parts
- Write descriptive discrepancy reports
- Broaden their possibilities for advancement in their career fields
- Further their education at a four-year university to complete a bachelor degree

Aviation Maintenance Technician Certificate of Achievement

This certificate is designed to prepare students to qualify for the airframe and powerplant certificates issued by the Federal Aviation Administration (FAA), which enables the holder to perform 100 hours and annual inspections on aircraft ranging from small aircraft used in general aviation to jets utilized by commercial airlines. The written examinations are administered by the FAA at computer testing centers. The total program requires 1,900 hours of lecture and laboratory.

Code	Title	Units
Required Courses		
AERO 050	General/Calculations and Basic Electricity Airframe and Powerplant Technologies	5
AERO 050L	General Laboratory/Calculations And Basic Electricity Airframe and Powerplant Technologies	2
AERO 051	General/Materials and Servicing Airframe and Powerplant Technologies	5
AERO 051L	General Laboratory/Materials and Servicing Airframe and Powerplant Technologies	2
AERO 052	Airframe Maintenance - Structures	6
AERO 052L	Airframe Maintenance Laboratory - Structures	5
AERO 053	Airframe Maintenance - Systems and Components	6

AERO 053L	Airframe Maintenance Laboratory - Systems and Components	5
AERO 054	Powerplant Maintenance - Reciprocating Engine Overhaul	6
AERO 054L	Powerplant Maintenance Laboratory - Reciprocating Engine Overhaul	5
AERO 055	Powerplant Maintenance - Accessory Overhaul	6
AERO 055L	Powerplant Maintenance Laboratory - Accessory Overhaul	5
Total Units		58

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Additional Requirements to Obtain 1900 Hours for the Aviation Maintenance Technician Certificate

Additional Laboratory courses must be taken in conjunction with laboratory required courses to meet the mandatory 1900 hours of instruction to qualify for the Airframe and Powerplant written, oral and practical tests administered by (FAA):

Code	Title	Units
AERO 050L & AERO 650L	General Laboratory/Calculations And Basic Electricity Airframe and Powerplant Technologies and General Laboratory/Calculations and Basic Electricity Airframe and Powerplant Technologies	2
AERO 051L & AERO 651L	General Laboratory/Materials and Servicing Airframe and Powerplant Technologies and General Laboratory/Materials and Servicing Airframe and Powerplant Technologies	2
AERO 052L & AERO 652L	Airframe Maintenance Laboratory - Structures and Airframe Maintenance Laboratory - Structures	5
AERO 053L & AERO 653L	Airframe Maintenance Laboratory - Systems and Components and Airframe Maintenance Laboratory System and Components	5
AERO 054L & AERO 654L	Powerplant Maintenance Laboratory - Reciprocating Engine Overhaul and Powerplant Maintenance Laboratory - Reciprocating Engine Overhaul	5
AERO 055L & AERO 655L	Powerplant Maintenance Laboratory - Accessory Overhaul and Powerplant Maintenance Laboratory - Accessory Overhaul	5

Students planning to obtain FAA A&P certification with prior military or industry experience should consult with Department Chair.

Program Learning Outcomes

At the completion of this program, students will be able to:

- Familiarization with and application of general/calculations and basic electricity of aviation as required by the FAA
- Familiarization with and application of general/materials and servicing of aviation as required by the FAA

- Interpret airframe and powerplant manuals
- Perform required inspections on an aircraft
- Troubleshoot aircraft airframe and powerplant systems
- Service and repair aircraft airframe and powerplant systems
- Assess the serviceability of parts
- Write descriptive discrepancy reports

Flight Operations and Management Associate of Science Degree

To graduate with a specialization in Flight Operations and Management students must complete the following requirements with a grade of C or better plus the general breadth requirements for the Associate Degree (minimum total = 60 units). This degree is for students who are interested in a career as a commercial pilot either in general aviation, the airlines, or in the area of aviation management.

Code	Title	Units
AERO 021	Aviation Fundamentals	3
AERO 022	Private Pilot Ground School ¹	6
AERO 024	Aircraft Powerplants	3
AERO 025	Flight Safety	2
AERO 026	Airframe Structures	3
AERO 027	Airport Certification and Operations	2
AERO 034	Civil Aviation Management and Laws	3
AERO 040	Instrument Ground School	4
AERO 046	Aviation Weather	3
BUSAD 100	Introduction to Business	3
PHYSIC 101	Introductory Physics	4
Total Units		36

¹ AERO 022 may be waived if students have taken an equivalent course; students are encouraged to see the Department Chair to determine whether course is equivalent to AERO 022.

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Relate the basic principles of aircraft flight, airport layout, airplane construction, and types of airspace
- Relate the major aircraft structural components, and the aircraft systems and components and their relevance to aircraft operation
- Discuss the factors involved in aircraft flight safety
- Compare the different types of aircraft powerplants and discuss the advantages and disadvantages of each

- Decipher the different types of weather reports and forecast and determine if aircraft flight is safe
- Explain the basic principles of aircraft flight
- Outline how the different types of weather affect aircraft flight safety
- Explain the relevance of Federal Regulations and laws to aircraft flight safety
- Contrast the differences in requirements between general aviation, air carriers, and the air cargo industry
- Examine the different business aspects involved in aviation management

Flight Operations Certificate of Achievement

This certificate program in Flight Operations is designed for students interested in careers as a pilot in general aviation, commercial aviation, or military aviation. This certificate prepares students for employment or transfer to other colleges, and includes Federal Aviation Administration approved curricula in basic ground school, advanced ground school, and instrument ground school. Through the San Bernardino Valley College Flying Club students have the opportunity to gain flight experience at a nominal cost as they prepare for the private pilot, commercial pilot, or instrument pilot ratings.

Code	Title	Units
Required Courses		
AERO 021	Aviation Fundamentals	3
AERO 022	Private Pilot Ground School ¹	6
AERO 024	Aircraft Powerplants	3
AERO 025	Flight Safety	2
AERO 026	Airframe Structures	3
AERO 040	Instrument Ground School	4
AERO 046	Aviation Weather	3
Total Units		24

¹ AERO 022 may be waived if students have taken an equivalent course; students are encouraged to see the Department Chair to determine whether course is equivalent to AERO 022.

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Relate the basic principles of aircraft flight, airport layout, airplane construction, and types of airspace
- Relate the major aircraft structural components, and the aircraft systems and components and their relevance to aircraft operation
- Discuss the factors involved in aircraft flight safety
- Compare the different types of aircraft powerplants and discuss the advantages and disadvantages of each
- Decipher the different types of weather reports and forecast and determine if aircraft flight is safe

- Explain the basic principles of aircraft flight
- Outline how the different types of weather affect aircraft flight safety

Powerplant Maintenance Technician Certificate of Achievement

This certificate is designed to prepare students to qualify for the Powerplant Certificate issued by the Federal Aviation Administration (FAA), which enables the holder to perform 100 hours and annual inspections on aircraft ranging from small aircraft used in general aviation to jets utilized by commercial airlines. The written examinations are administered by the FAA at computer testing centers. The total program requires 1,150 hours of lecture and laboratory.

Code	Title	Units
Required Courses		
AERO 050	General/Calculations and Basic Electricity Airframe and Powerplant Technologies	5
AERO 050L	General Laboratory/Calculations And Basic Electricity Airframe and Powerplant Technologies	2
AERO 051	General/Materials and Servicing Airframe and Powerplant Technologies	5
AERO 051L	General Laboratory/Materials and Servicing Airframe and Powerplant Technologies	2
AERO 054	Powerplant Maintenance - Reciprocating Engine Overhaul	6
AERO 054L	Powerplant Maintenance Laboratory - Reciprocating Engine Overhaul	5
AERO 055	Powerplant Maintenance - Accessory Overhaul	6
AERO 055L	Powerplant Maintenance Laboratory - Accessory Overhaul	5
Total Units		36

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Familiarization with and application of general/calculations and basic electricity of aviation as required by the FAA
- Familiarization with and application of general/materials and servicing of aviation as required by the FAA
- Read and interpret powerplant manuals, charts and task sheets
- Perform required inspections, maintenance and repairs on aircraft powerplants
- Troubleshoot aircraft powerplant systems and components
- Overhaul aircraft powerplants
- Read and interpret powerplant overhaul manuals measure and determine serviceability of parts
- Write descriptive and concise discrepancy reports

American Sign Language (ASL)

American Sign Language is a visually perceived, gesture-based language. It is expressed through the hands, face, and is perceived through the eyes.

It is based on a naturally evolved system of articulated hand gestures and their placement relative to the body, along with non-manual markers such as facial expressions, head movements, shoulder raises, mouth morphemes, and movements of the body. ASL is a language used primarily by 2,500,000 members of the North American Deaf community.

The primary objective of the Modern Languages Department and American Sign Language instruction is to teach ASL communication at an acceptably correct level with an understanding of the Deaf culture. ASL study may assist individuals seeking employment within, or in support of, the Deaf community and may include Nursing, Human Services, Counseling, Child Development, and others. For those seeking a career as an ASL interpreter, this coursework is the first step in transferring to an interpreter education program.

Contact Information

Division: Arts and Humanities (NH - 223)

Division Phone Number: (909) 384-8633

Faculty Chairs: Davena Burns-Peters (dburns@sbccd.edu), B.E. and Nori Sogomonian (nsogomon@sbccd.edu), Ed.D.

ASL 109 4 Units

American Sign Language I

Lecture: 72 contact hours

In this course students develop communication skills in American Sign Language including the alphabet, basic vocabulary and grammar of ASL. Both receptive and expressive abilities are emphasized. Students review the characteristics of the deaf community and culture.

Associate Degree Applicable

Transfers to both UC/CSU

ASL 110 4 Units

American Sign Language II

Lecture: 72 contact hours

Prerequisite: ASL 109

The course is second in a series of four ASL courses designed for the student to develop proficiency in ASL usage. Students continue to develop basic conversational skills with emphasis on expanding vocabulary and comprehension/production skills. There are four basic categories: cultural awareness, grammatical features, vocabulary development, and conversational skills.

Associate Degree Applicable

Transfers to both UC/CSU

ASL 111 4 Units

American Sign Language III

Lecture: 72 contact hours

Prerequisite: ASL 110

Students continue to develop conversational skills in American Sign Language and expand their vocabulary and grammar of ASL. Students review primary issues in deaf culture and strengthen their understanding of deaf awareness. Emphasis is on idiomatic constructions as well as comprehension and production skills.

Associate Degree Applicable

Transfers to both UC/CSU

ASL 112 4 Units**American Sign Language IV****Lecture:** 72 contact hours**Prerequisite:** ASL 111

This course is designed to help students acquire communicative competency in American Sign Language, both comprehension and production skills within the contexts of literature and storytelling. Emphasis is on cultural awareness, grammatical features, vocabulary development, and conversational skills.

Associate Degree Applicable**Transfers to both UC/CSU**

Anthropology

Anthropology is the study of what it means to be human. It has been called the most scientific of the humanities and the most humanistic of the sciences as it takes a broad approach to the study of humanity, integrating biological, archaeological, cultural, and linguistic perspectives. The Anthropology Department offers courses in all four subfields and in selected areas including religion, art, and North American Indians.

Coursework in anthropology develops skills of critical thinking and enriches understanding of human diversity. Anthropologists often aim for their work to aid in understanding and solving real-world issues faced by humans today. Anthropology majors may find careers in teaching, cultural resource management, advocacy, marketing, or conflict resolution although anthropological insights can be useful in a vast range of occupations. Students planning to transfer to a four-year institution and major in anthropology should consult with a counselor regarding the transfer process and lower division requirements.

Contact Information

Division: Social Sciences, Human Development, and Physical Education

Division Phone Number: (909) 384-8603

Faculty Chair: Melissa King (mking@sbccd.edu), Ph.D.

Department Website (<https://www.valleycollege.edu/academic-career-programs/degrees-certificates/anthropology/>)

-
- Anthropology Associate of Arts Transfer Degree (p. 75)

ANTHRO 100 3 Units**Introduction to Archaeology****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course introduces archaeology, its methods and contributions, in an anthropological context. Topics in this course include cultural resource management, seriation, interpretation of finds, and selected case studies.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ANTH 150**ANTHRO 102 3 Units****Cultural Anthropology****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an introduction to the anthropological study of human diversity and culture. Cultural anthropologists study human organization, expression, subsistence, communication, belief, and identity, in relation to social inequalities and culture change.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ANTH 120**ANTHRO 102H 3 Units****Cultural Anthropology - Honors****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course is an introduction to the anthropological study of human diversity and culture. Cultural anthropologists study human organization, expression, subsistence, communication, belief, and identity, in relation to social inequalities and culture change. This course is intended for students in the Honors Program, but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ANTH 120**ANTHRO 103 3 Units****Anthropology of Food****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course studies food from a holistic anthropological perspective. It examines production and consumption of food around the world and across time, and it investigates the variability of the cultural meanings and ecological roles of particular food resources and practices.

Associate Degree Applicable**Transfers to both UC/CSU****ANTHRO 106 3 Units****Biological Anthropology****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course introduces concepts and methods used to study the human species in a scientific, evolutionary framework. Topics covered include evolutionary theory, genetics, the fossil record of human ancestors, comparative primatology, human variation, and interactions between biology and culture.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ANTH 110

ANTHRO 106H 3 Units**Biological Anthropology - Honors****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course introduces concepts and methods used to study the human species in a scientific, evolutionary framework. Topics covered include evolutionary theory, genetics, the fossil record of human ancestors, comparative primatology, human variation, and interactions between biology and culture. This course is intended for students in the Honors Program but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ANTH 110**ANTHRO 106L 1 Unit****Biological Anthropology Laboratory****Lab:** 54 contact hours**Prerequisite/Corequisite:** ANTHRO 106 or ANTHRO 106H

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This laboratory course is offered as a supplement to Biological Anthropology (ANTHRO 106 or ANTHRO 106H) either taken concurrently or in a subsequent term. Laboratory exercises are designed to introduce students to the scientific method and explore genetics, human variation, human and non-human primate anatomy and behavior, the primate and hominin fossil record, and other resources to investigate processes that affect human evolution.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ANTH 115L**ANTHRO 108 3 Units****North American Indians****Lecture:** 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course provides an anthropological view to the study of indigenous peoples and cultures of North America. This course encourages critical thought about anthropological scholarship on the identities and experiences of indigenous peoples and communities of North America. Topics covered include North American Indian origins, culture areas, representations of North American Indians, tribes and legislation, and key issues facing North American Indian communities today.

Associate Degree Applicable**Transfers to both UC/CSU****ANTHRO 109 3 Units****Visual Culture and Art****Lecture:** 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course explores approaches to visual culture and art in the discipline of anthropology. Included in the course is a survey of diverse visual and artistic practices, study of the relations between power and sight, and introduction to the methods of visual anthropology.

Associate Degree Applicable**Transfers to both UC/CSU****ANTHRO 110 3 Units****Magic, Witchcraft, and Religion****Lecture:** 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course introduces the study of beliefs and practices, past and present, associated with magic, witchcraft, and religion. Topics examined include ritual, symbolism, altered states of consciousness, and healing, as well as syncretism, change, and the social roles of these beliefs and practices. This course is also offered as RELIG 110.

Associate Degree Applicable**Transfers to both UC/CSU****ANTHRO 125 3 Units****Language and Culture****Lecture:** 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course provides a foundation for the study of language from an anthropological perspective. Topics studied fall into two main categories: the structure of language and the use of language in cultural contexts. Topics include language ideologies, speech communities, and the relation between culture and language.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ANTH 130**ANTHRO 222 1-3 Units****Independent Study in Anthropology****DIR:** 162 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

Students with previous coursework in anthropology may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of anthropology. Prior to registration, a written contract must be prepared jointly by the instructor and the student.

Associate Degree Applicable**Transfers to CSU only****ANTHRO 223 1-3 Units****Independent Study in Anthropology - Guided Research****DIR:** 162 contact hours**Prerequisite:** ANTHRO 222

Students with previous coursework in anthropology may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of anthropological research and analysis. Prior to registration, a written contract must be prepared jointly by the instructor and the student.

Associate Degree Applicable**Transfers to CSU only**

Anthropology Associate of Arts Transfer Degree

Anthropology is the study of what it means to be human. It has been called the most scientific of the humanities and the most humanistic of the sciences as it takes a broad approach to the study of humanity, integrating biological, archaeological, cultural, and linguistic perspectives. Anthropologists often aim for their work to aid in understanding and solving real-world issues faced by humans today. The courses within this program

are designed to provide students with applicable skills useful in a vast range of occupations.

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. To earn this Anthropology AA-T degree, students must meet the following requirements:

- completion of the following major requirements with grades of C or better;
- completion of a minimum of 60 CSU transferable semester units with a grade point average of a least 2.0; and
- certified completion of the CSU General Education-Breadth (CSUGE) or Intersegmental General Education Transfer Curriculum (IGETC) for CSU, which requires a minimum of 37-39 units.

It is highly recommended that students complete courses that satisfy the U.S. History, Constitution, and American Ideals requirement as part of CSUGE or IGETC before transferring to a CSU. Students planning to transfer to a four-year institution and major in Anthropology should consult with a counselor regarding the transfer process and lower division requirements.

Code	Title	Units
Required Courses (9 units)		
ANTHRO 100	Introduction to Archaeology	3
ANTHRO 102	Cultural Anthropology	3
	or ANTHRO 102H Cultural Anthropology - Honors	
ANTHRO 106	Biological Anthropology	3
	or ANTHRO 106H Biological Anthropology - Honors	
List A - Select one of the following: (3 units minimum)		
ANTHRO 125	Language and Culture	3
ENGL 102	Intermediate Composition and Critical Thinking	4
	or ENGL 102H Intermediate Composition and Critical Thinking - Honors	
MATH 108	Introduction to Probability and Statistics	4
PSYCH 105	Statistics for the Behavioral Sciences	4
List B - Select one to two courses: (4 units maximum)		
BIOL 260	Human Anatomy	4
GEOL 101	Introduction to Physical Geology	4
& GEOL 111	and Introduction to Physical Geology Laboratory	
GIS 130	Introduction to Geographic Information Systems (GIS)	3
PSYCH 201	Research Methods for the Behavioral Sciences	4
List C - Select one of the following (3 units maximum) or any course from List A or B not already used:		
ANTHRO 103	Anthropology of Food	3
ANTHRO 106L	Biological Anthropology Laboratory	1
ANTHRO 108	North American Indians	3
ANTHRO 109	Visual Culture and Art	3
ANTHRO 110	Magic, Witchcraft, and Religion	3
ART 108	Art of Mexico and Mesoamerica	3
COMMST 174	Intercultural Communication	3
ENGL 163	Chicano Literature	3
ENGL 165	African-American Literature	3
ENGL 280	World Literature: to 17th Century	3

ENGL 281	World Literature: 17th Century To Present	3
HIST 107	The United States and the North American Indians	3
HIST 137	Racial and Ethnic Groups in United States History	3
HIST 139	African-American History 1877 to Present	3
HIST 140	Chicano History	3
HIST 150	Introduction to Latin American History	3
HIST 170	World History to 1500	3
HIST 171	World History Since 1500	3
MUS 107	Music of the World	3
POLIT 141	Introduction to World Politics	3
	or POLIT 141H Introduction to World Politics - Honors	
RELIG 101	Introduction to World Religions	3
SOC 100	Introduction to Sociology	3
	or SOC 100H Introduction to Sociology - Honors	
SOC 141	Race and Ethnic Relations	3

Code	Title	Units
Major Total		18-21
Total Units That May Be Double Counted		19
General Education (CSU-GE or IGETC) Units		37-39
Elective (CSU Transferable) Units		19-24
Total Units		60

See Section on Degree, Certificate, and Transfer Information for additional information on the Associate Degrees for Transfer.

To earn an SBVC Associate Degree for Transfer (AA-T or AS-T) students must complete one of the following general education patterns:

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate an understanding of the conceptual framework that guides anthropology including aspects related to archaeology, culture, language and biology evaluated by written or objective assessments
- Develop an awareness of people in different parts of the world and the interdependence of a multicultural global community evaluated by written or objective assessments

Arabic

Modern Arabic is an official United Nations language that is used across 22 countries with over 300 million native speakers. From Tangier to Cairo, and Sudan to Syria, this sacred language is the key to understanding the cultural and historical diversity of the Arabic world.

The objectives of Arabic courses are level-appropriate linguistic competence and increased awareness of Pan-Arabic culture. Classroom methods incorporate critical thinking and the direct oral approach. Assignments are based on lectures, reading, presentations and individual research. Activities may include: homework, workbooks, journals,

documentaries, movies, presentations, interviews, cultural discussions, etc.

A course of study in College Arabic can be extremely valuable in certain academic, professional, and government fields. Students transferring for a Modern Language B.A. should consult a counselor regarding certain process and course requirements. Modern Language graduates enter the fields of education, emergency and health services, social work, hospitality and administrative services, and business and sales. It is a great adjunct for students of Administration of Justice/Police Science, Anthropology, Business, Child Development, History, Pharmacy Technology, and Sociology.

Contact Information

Division: Arts and Humanities (NH - 223)

Division Phone Number: (909) 384-8633

Faculty Chairs: Davena Burns-Peters (dburns@sbccd.edu), B.E. and Nori Sogomonian (nsogomon@sbccd.edu), Ed.D.

ARAB 101 5 Units

College Arabic I

Lecture: 90 contact hours

This course includes the study of essentials of pronunciation including the Arabic alphabet, symbols and sounds, vocabulary, idioms, and grammatical structures along with an introduction to the key social issues and culture of Arabic-speaking people. This course corresponds to two years of high school study.

Associate Degree Applicable

Transfers to both UC/CSU

ARAB 102 5 Units

College Arabic II

Lecture: 90 contact hours

Prerequisite: ARAB 101

In this course students continue to develop the ability to converse, read and write in Arabic. The course includes the study of essentials of pronunciation, vocabulary, idioms, and grammatical structures along with an introduction to the key social issues and culture of Arabic speaking people.

Associate Degree Applicable

Transfers to both UC/CSU

Architecture and Environmental Design

The Architecture curriculum is designed to provide students with the following understanding and skills:

1. Verbal and graphic methods of communication;
2. An understanding of the social and environmental problems in the United States and other countries;
3. Creative solutions to existing and future problems in the United States and other countries; and
4. How to implement new ideas in a reasonable amount of time.

The areas of study include how to develop a better quality of life through efficient housing, new building material development, new construction methods, new work methods, solar and wind power, efficient use of resources, and a reduction of waste in materials and time. A learning-by-doing approach is stressed in preparation for the job market or for transfer

to a university to further study in architecture, architectural engineering, city planning, or landscape architecture. Students planning to transfer to a four-year institution and major in one of these fields should consult with a counselor regarding the transfer process and lower division requirements.

Contact Information

Division: Science (PS - 148)

Division Phone Number: (909) 384-8645

Division Dean: Dmitriy Kalantarov (%20dkalantarov@sbccd.edu), Ph.D.

Department Website (<https://www.valleycollege.edu/academic-career-programs/degrees-certificates/architectural-design/>)

- Architecture and Environmental Design Associate of Science Degree (p. 80)
- 3D Modeling and Design Certificate of Achievement (p. 79)
- Building Information and 3D Modeling Certificate of Achievement (p. 80)
- Building Information Management (BIM) Certificate of Achievement (p. 81)

ARCH 015 2 Units

Survey of Design and Drafting Software Applications

Lecture: 18 contact hours

Lab: 54 contact hours

This course is an introduction to the theories and principles of industry-related software applications in the design and drafting fields. Topics of the course include dimensional graphics, three-dimensional modeling, and electronic mapping applications. Principal software applications will be explored as they relate to the fields of architecture, design, manufacturing, construction, and urban planning.

Associate Degree Applicable

ARCH 070 1 Unit

Portfolio Design

Lab: 54 contact hours

Prerequisite: ARCH 112 or ARCH 113

This course is designed to assist architecture students in the preparation of their portfolio. The design portfolio is required to transfer to most four-year/five-year Architecture programs. This course also benefits the student entering the job force in documenting their experience. (Formerly ARCH 270)

Associate Degree Applicable

ARCH 098 1-4 Units

Environmental Design Work Experience

WRKEX: 300 contact hours

Prerequisite: ARCH 111 or ARCH 112 or ARCH 145 or ARCH 145H

This course involves supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable

ARCH 110 2 Units**Introduction to Architecture****Lecture:** 36 contact hours

This course explores the professional and academic path of the architect and aspects of the architect's relation to allied professions. Lectures will include licensing, academic options and pathways, history of the profession, practice, design theory, structures, and personal goal setting. Guest speakers and an office visit will provide students a firsthand opportunity to observe multiple aspects of the profession.

Associate Degree Applicable**Transfers to both UC/CSU****ARCH 111 2 Units****Sketching and Design Visualization****Lecture:** 18 contact hours**Lab:** 54 contact hours

This introductory course in architectural visualization and drawing techniques will focus on how to communicate three-dimensional designs in a two-dimensional medium. Subjects and techniques include, orthographic projection, isometrics, basic one and two point perspectives, pralines, plan views, elevations, and line types. Emphasis on sketching and hand drafting and sketch-up media will be introduced in developing graphic skills.

Associate Degree Applicable**Transfers to both UC/CSU****ARCH 112 4 Units****Environmental Design****Lecture:** 36 contact hours**Lab:** 108 contact hours

This beginning architectural design course includes the perceptual and physical study of two and three-dimensional design theories, principles and compositional techniques used in the creation and manipulation of architectural form, space and light. Focus will be on the fundamental design skills and will progress to a three dimensional architectural design project including consideration of approach, transition and destination. Models, drawings and graphics will be utilized to study and communicate the design. (Formerly ARCH 100)

Associate Degree Applicable**Transfers to both UC/CSU****ARCH 113 4 Units****Environmental Design Communication****Lecture:** 36 contact hours**Lab:** 108 contact hours**Advisory:** ARCH 111 and ENGL 101 or ENGL 101H

This is an advanced studio course that builds on a basic understanding of design communication, strengthening complexity and design intention in two and three-dimensional design and three-dimensional visualization techniques, including freehand sketching, graphic conventions, modeling, shade/shadow, color rendering, graphic presentations, and a magazine page project based presentation. This course is intended to provide the visual communications skills needed to describe architecture and participate in the design communication process. It is project-based with projects selected by the instructor to build a student's range of expression, while focusing on a variety of visualization techniques and media. (Formerly ARCH 101)

Associate Degree Applicable**Transfers to CSU only****ARCH 130 2 Units****Computer-Aided Design (CAD) Drafting****Lecture:** 18 contact hours**Lab:** 54 contact hours

This course introduces Computer-Aided Design (CAD) as used to produce two-dimensional architectural drawings. PCs with AutoCAD will be used and instruction will focus on using a computer to draw a simple project, including the following drawing types: floor plan, site plan, elevation, and enlarged section/details. Students should have basic knowledge of computer operation and file management.

Associate Degree Applicable**Transfers to CSU only****ARCH 131 2 Units****Introduction to Building Information Modeling (BIM)****Lecture:** 18 contact hours**Lab:** 54 contact hours**Advisory:** ARCH 130

This course introduces Building Information Modeling (BIM) as used to produce a three-dimensional architectural model with detailed construction information. PCs with Autodesk Revit will be used and instruction will focus on computer modeling a simple project and extracting construction documentation. Students should have basic knowledge of computer operation and file management.

Associate Degree Applicable**Transfers to CSU only****ARCH 133 2 Units****Introduction to 3D Modeling and Design****Lecture:** 18 contact hours**Lab:** 54 contact hours

This course introduces 3-D Modeling for design visualization using Rhino software. Hands-on instruction will focus on digitally modeling designs with rectilinear and non-rectilinear geometry, including preparing files for fabrication and presentation. Students should have basic knowledge of computers and file management.

Associate Degree Applicable**Transfers to CSU only****ARCH 145 3 Units****History of Architecture: Early Design Through Gothic****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This course is a survey of Western architectural history from the early Egyptians through the Gothic period, in addition to the eastern architecture of India, Japan and China. The course includes a comparative study of architecture and architects with emphasis on the people, locations, structures, materials, and methods of construction and additional influences on the built environment.

Associate Degree Applicable**Transfers to both UC/CSU**

ARCH 145H 3 Units**History of Architecture: Early Design Through Gothic - Honors****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course is a survey of Western architectural history from the early Egyptians through the Gothic period, in addition to the eastern architecture of India, Japan and China. The course includes a comparative study of architecture and architects with emphasis on the people, locations, structures, materials, and methods of construction and additional influences on the built environment. This course is intended for students in the Honors Program, but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****ARCH 146 3 Units****History of Architecture: Renaissance Through Modern****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This is a survey course that covers the indigenous architecture in the Pre-Columbian Americas and the Western architectural history Renaissance period to modern times. This course includes a comparative study of architecture and architects with an emphasis on people, locations, structures, materials, and methods of construction.

Associate Degree Applicable**Transfers to both UC/CSU****ARCH 146H 3 Units****Architecture History: Renaissance to Modern - Honors****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This is a survey course that covers the indigenous architecture in the Pre-Columbian Americas and the Western architectural history Renaissance period to modern times. This course includes a comparative study of architecture and architects with an emphasis on people, locations, structures, materials, and methods of construction. This course is intended for students in the Honors Program, but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****ARCH 212 4 Units****Architectural Design and Theory II****Lecture:** 36 contact hours**Lab:** 108 contact hours**Prerequisite:** ARCH 112**Advisory:** ARCH 113

This course will explore architectural and environmental design relationships between various programmatic models, normative building types, and technological themes with emphasis on physical, cultural, and historic contexts. The student will develop creative design skills and problem solving techniques as they apply to the architectural and related profession. Prerequisite may be waived subject to portfolio review of recent (within 5 years) work by Architecture department. (Formerly ARCH 200)

Associate Degree Applicable**Transfers to both UC/CSU****ARCH 213 4 Units****Architectural Design II****Lecture:** 36 contact hours**Lab:** 108 contact hours**Prerequisite:** ARCH 212

Advanced architectural design processes are explored in the urban setting, with the relationships between a variety of programmatic models, normative building types, and technological themes within specific physical, cultural and historic contexts. Focus is on advanced problems solving in spatial relationships, structures, and human requirements of advanced model building, based on challenging design criteria, communication and editing a design narrative. (Formerly ARCH 201)

Associate Degree Applicable**Transfers to both UC/CSU****ARCH 231 2 Units****Advanced Building Information Modeling (BIM)****Lecture:** 9 contact hours**Lab:** 81 contact hours

This course introduces Building Information Modeling (BIM) as used to produce a 3-dimensional architectural model with detailed construction information. PCs with Autodesk Revit will be used and instruction will focus on computer modeling a simple project and extracting construction documentation. Students should have basic knowledge of computer operation and file management as well as construction.

Associate Degree Applicable**Transfers to CSU only****ARCH 233 2 Units****Advanced 3D Modeling and Design****Lecture:** 18 contact hours**Lab:** 54 contact hours**Prerequisite:** ARCH 133

This course introduces fundamental skills of coding and 3-D computational design using Rhino software with additional plug-ins. Hands-on instruction will focus on parametrically modeling and testing design variations with rectilinear and non-rectilinear geometry, including preparing files for fabrication and presentation. Students should have basic knowledge of 3-D modeling.

Associate Degree Applicable**Transfers to CSU only**

3D Modeling and Design Certificate of Achievement

This certificate is designed to prepare students for entry-level employment in the fields of architecture; civil, structural, mechanical, electrical engineering, urban planning, interior design, landscape design, manufacturing, and related fields. Computer Aided Drafting, CAD, Rhino and Grasshopper are the primary tool used to produce and present documents in these fields. Students completing this certificate will most likely find employment with a licensed architect, registered structural engineer, mechanical engineer or for local, state or federal governmental agency or urban planning or municipal utility or home improvement and remodeling specialty business.

Code	Title	Units
Required Courses		
ARCH 111	Sketching and Design Visualization	2
ARCH 112	Environmental Design	4
ARCH 130	Computer-Aided Design (CAD) Drafting	2

ARCH 133	Introduction to 3D Modeling and Design	2
ARCH 233	Advanced 3D Modeling and Design	2
Total Units		12

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

Program Learning Outcomes

At the completion of this program, students will be able to:

- Read and interpret blueprints, design documents, and project specifications to gain meaningful information
- Compare and contrast the conventional drawing types and views and explain the advantages of each
- Demonstrate the ability to mechanically construct a variety of basic drawings utilizing industry conventions of scale, scale, line, symbols, lettering and dimensioning techniques
- Demonstrate the ability to mechanically construct a variety of drawings utilizing three dimensional modeling and design techniques

Architecture and Environmental Design Associate of Science Degree

To graduate with a specialization in Architecture and Environmental Design, a student must complete the following courses in addition to the general breadth requirements for an Associate's Degree. For transfer students, these courses will provide students with the tools needed to construct a portfolio that will be required to transfer into Architecture Programs at 4-year institutions. Along with a successful portfolio, these courses should also constitute the first two years of an Architecture Program. In addition, these courses should help students interested in transferring to 4-year institutions in Environmental Design fields, and as Landscape Architecture, Interior Design and Urban Planning majors.

Code	Title	Units
Required Courses		
ARCH 110	Introduction to Architecture	2
ARCH 111	Sketching and Design Visualization	2
ARCH 112	Environmental Design	4
ARCH 113	Environmental Design Communication	4
ARCH 130	Computer-Aided Design (CAD) Drafting	2
ARCH 131	Introduction to Building Information Modeling (BIM)	2
ARCH 133	Introduction to 3D Modeling and Design	2
ARCH 145	History of Architecture: Early Design Through Gothic	3
	or ARCH 145H History of Architecture: Early Design Through Gothic - Honors	
ARCH 146	History of Architecture: Renaissance Through Modern	3
	or ARCH 146H Architecture History: Renaissance to Modern - Honors	
ARCH 212	Architectural Design and Theory II	4
ARCH 213	Architectural Design II	4
ARCH 231	Advanced Building Information Modeling (BIM)	2
ARCH 233	Advanced 3D Modeling and Design	2
ENGL 102	Intermediate Composition and Critical Thinking	4

	or ENGL 102H Intermediate Composition and Critical Thinking - Honors	
MATH 103	Plane Trigonometry	4
PHYSIC 151	General Physics for the Life Sciences I	4
Total Units		48

Code	Title	Units
Recommended Courses		
ARCH 015	Survey of Design and Drafting Software Applications	2
ARCH 070	Portfolio Design	1
COMMST 100	Elements of Public Speaking	3
	or COMMST 10 Elements of Public Speaking - Honors	
COMMST 125	Critical Thinking Through Argumentation and Debate	3
MATH 108	Introduction to Probability and Statistics	4
	or MATH 151 Precalculus	

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Express a general breadth of architectural and environmental knowledge using verbal, written and a variety of graphic techniques
- Apply design principles to the analysis or development of two and three dimensional design
- Present two and three dimensional design project solutions explaining their problem solving procedure utilizing a variety of verbal and graphic techniques
- Relate the impact of various influences to the development of architectural characteristics and styles
- Possess an awareness of relationships among allied fields

Building Information and 3D Modeling Certificate of Achievement

This certificate is designed to prepare students for entry-level employment in the fields of architecture; civil, structural, mechanical, electrical engineering, urban planning, interior design, landscape design, manufacturing, construction and related fields. Computer Aided Drafting, CAD, Rhino, Grasshopper, and REVIT are the primary tools used to produce and present documents in these fields. Students completing this certificate will most likely find employment with a licensed architect, registered structural engineer, mechanical engineer or for local, state or federal governmental agency or urban planning or municipal utility

or home improvement and remodeling specialty business, construction management firm or field office.

Code	Title	Units
Required Courses		
ARCH 111	Sketching and Design Visualization	2
ARCH 112	Environmental Design	4
ARCH 133	Introduction to 3D Modeling and Design	2
ARCH 233	Advanced 3D Modeling and Design	2
ARCH 131	Introduction to Building Information Modeling (BIM)	2
ARCH 231	Advanced Building Information Modeling (BIM)	2
ARCH 146	History of Architecture: Renaissance Through Modern	3
	or ARCH 146H Architecture History: Renaissance to Modern - Honors	
Total Units		17

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Read and interpret blueprints, design documents, and project specifications to gain meaningful information
- Compare and contrast the conventional drawing types and views and explain the advantages of each
- Demonstrate the ability to mechanically construct a variety of basic drawings utilizing industry conventions of scale, scale, line, symbols, lettering and dimensioning techniques
- Demonstrate the ability to mechanically construct a variety of drawings utilizing Building Information Management and modeling techniques
- Demonstrate the ability to mechanically construct a variety of drawings utilizing three dimensional modeling and design techniques

Building Information Management (BIM) Certificate of Achievement

This certificate is designed to prepare students for entry-level employment in the fields of architecture; civil, structural, mechanical, electrical engineering, urban planning, interior design, landscape design, manufacturing, construction management and related fields. Computer Aided Drafting, CAD, and Building Information Management (BIM) are the primary tools used to produce and present documents in these fields. Students completing this certificate will most likely find employment with a licensed architect, registered structural engineer, mechanical engineer or for local, state or federal governmental agency or urban planning or municipal utility or home improvement and remodeling specialty business or field office of a construction management firm.

Code	Title	Units
Required Courses		
ARCH 111	Sketching and Design Visualization	2
ARCH 112	Environmental Design	4
ARCH 130	Computer-Aided Design (CAD) Drafting	2

ARCH 131	Introduction to Building Information Modeling (BIM)	2
ARCH 231	Advanced Building Information Modeling (BIM)	2
Total Units		12

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

Program Learning Outcomes

At the completion of this program, students will be able to:

- Read and interpret blueprints, design documents, and project specifications to gain meaningful information
- Compare and contrast the conventional drawing types and views and explain the advantages of each
- Demonstrate the ability to mechanically construct a variety of basic drawings utilizing industry conventions of scale, scale, line, symbols, lettering and dimensioning techniques
- Demonstrate the ability to mechanically construct a variety of drawings utilizing Building Information Management and modeling techniques

Art

The study of art involves both an appreciation of the cultural heritage of art and the development of skills. Consequently, the Art Department offers courses in art history as well as studio courses in drawing, design, ceramics, painting, life drawing, computer graphics, graphic design, computer animation, web and multimedia design, digital photography, sculpture, and glassblowing. In addition to associate degrees in art and graphic design, the department offers two certificates in graphic design and web and multimedia design, designed for students seeking employment in the design, advertising, and entertainment fields. A baccalaureate degree in art qualifies students for employment in the fine arts, industry, and education. Students planning to transfer to a four-year institution and major in art should consult with a counselor regarding the transfer process and lower division requirements.

Contact Information

Division: Arts and Humanities (NH - 223)

Division Phone Number: (909) 384-8633

Department Office: Art Gallery

Faculty Chair: Mandi Batalo (mbatalo@sbccd.edu), Ed.D.

-
- Art Associate of Arts Degree (p. 86)
 - Graphic Design Associate of Arts Degree (p. 87)
 - Studio Arts Associate of Arts Transfer Degree (p. 87)
 - Graphic Design Certificate of Achievement (p. 87)
 - Web and Multimedia Design Certificate of Achievement (p. 88)

ART 098 1-4 Units**Art Work Experience****WRKEX:** 300 contact hours

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable**ART 100 3 Units****Art History: The Stone Age to the Middle Ages****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

The course is a survey of western art from the Stone Age to the Middle Ages. The course provides an overview of the art and architecture of the following periods: the Stone Age, Ancient Near East, Egypt, the Aegean, the Greek and Roman Empires, the Etruscans, the Byzantine Empire, the Medieval periods in Europe, Romanesque, and Gothic.

Associate Degree Applicable**Transfers to both UC/CSU****ART 102 3 Units****Art History: Renaissance to Present****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

The course is a survey of western art from the Renaissance through the 21st Century. Topics covered include 15th and 16th century Italian art; Renaissance and Baroque art; the Rococo movement; Romanticism; Realism; Impressionism; Cubism; Surrealism and other styles of the 19th, 20th, and 21st centuries.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ARTH 120**ART 102H 3 Units****Art History: Renaissance to Present - Honors****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

The course is a survey of western art from the Renaissance through the 21st Century. Topics covered include 15th and 16th century Italian art; Renaissance and Baroque art; the Rococo movement; Romanticism; Realism; Impressionism; Cubism; Surrealism and other styles of the 19th, 20th, and 21st centuries. This course is intended for students in the Honors Program, but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ARTH 120**ART 103 3 Units****Art Appreciation****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

The course is an introduction to two- and three-dimensional art from a multicultural perspective. Art in a historical and worldwide context, the function of art in society, art processes, and visual vocabulary are examined. Students will develop an increased appreciation of the differences and similarities among the styles, content, and expression of world art.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ARTH 100**ART 105 3 Units****History of Modern Art****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is a survey of the major stylistic movements, ideologies, and artists that comprise the Modern period in art from the 19th century through the 20th century. Traditional art forms and newer media are discussed, especially in relation to technological, cultural, political, racial and social histories.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ARTH 150**ART 107 3 Units****Art History: Africa, Oceania and the Americas****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

The course provides a survey of art from Africa, Oceania and the Americas. This includes an examination of the religious and social factors influencing art, artifacts, and architecture.

Associate Degree Applicable**Transfers to both UC/CSU****ART 108 3 Units****Art of Mexico and Mesoamerica****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

The course is a survey of Mexican and Mesoamerican art from Precolumbian times through the 21st century. Art will be evaluated and critiqued on historical content, subject matter, and aesthetics.

Associate Degree Applicable**Transfers to both UC/CSU****ART 120 3 Units****Two-Dimensional Design****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

The course is an introduction to basic principles, components, and terminology of two-dimensional design common in the visual arts. Course topics include the principles of design, elements of design, color theory, and an exploration of the creative process.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ARTS 100**ART 121 3 Units****Three-Dimensional Design****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ART 120 and ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is a study in the elements and principles of three-dimensional design. The focus is on concepts and their application with regards to spatial relationships and composition. Experimentation is in natural and synthetic materials such as but not limited to paper, clay, wood, plaster, and metal.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ARTS 101

ART 124A 3 Units**Beginning Drawing****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

The course is a progressive study of form, space, and concept employing a wide range of subject matter and traditional drawing media. Instruction focuses on perceptually based drawing, observational abilities and creative responses to traditional drawing materials and subject matter. Topics include the theory and analysis of perspective in two- and three-dimensional composition such as the various means of representing three-dimensional forms in space through aerial and linear perspective.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ARTS 110**ART 124B 3 Units****Intermediate Drawing****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 124A**Advisory:** ENGL 101 or ENGL 101H

This course is a review of essential concepts of drawing and the development of intermediate-level drawing skills. The focus of instruction will be on the development of an individual thematic approach to drawing and study of complex subject matter, advanced compositional concerns, advanced color theory, traditional and experimental drawing media and surfaces.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ARTS 205**ART 124C 3 Units****Advanced Drawing****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 124B**Advisory:** ENGL 101 or ENGL 101H

This class focuses on how to develop an original body of drawings in various subjects, media and surfaces that reflects knowledge of advanced drawing techniques with a focus on preparing their portfolio for upper division courses at the university and college level and display in the gallery environment. Typical subjects covered in this class will include developing a body of original artwork that expresses the students personal style, portfolio development for upper division coursework, gallery preparation, presentation of finished artwork with appropriate matting and framing, and writing a formal artist statement.

Associate Degree Applicable**Transfers to both UC/CSU****ART 126A 3 Units****Beginning Painting****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

The course is a progressive study of the fundamentals of painting and painting materials including techniques of composition, color theory, brushwork, and technique, as well as creative responses to materials and subject matter. Topics include the appropriate use of traditional color theory with artistic brush application on prepared surfaces.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ARTS 210**ART 126B 3 Units****Intermediate Painting****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 126A**Advisory:** ENGL 101 or ENGL 101H

This course is a review of essential concepts and skills of painting and the development of intermediate-level painting skills. Development of original concepts for painting and the study of complex subject matter, advanced compositional concerns, using alternative and experimental surfaces and media.

Associate Degree Applicable**Transfers to both UC/CSU****ART 126C 3 Units****Advanced Painting****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 126B**Advisory:** ENGL 101 or ENGL 101H

This course will focus on the development of an original body of paintings in various subjects, media and surfaces that reflects the student's knowledge of advanced painting techniques with an emphasis on preparing their portfolio for upper division courses at the university and college level and display in the gallery environment.

Associate Degree Applicable**Transfers to both UC/CSU****ART 132A 3 Units****Beginning Life Drawing****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

The course is an introduction to drawing the human figure and anatomy from observation using a wide variety of drawing media and techniques. Topics include an introduction to human anatomy, contour, proportions, gesture, and the historical and contemporary roles of figure drawing in the visual arts. Students in this course will learn both descriptive and interpretive approaches to drawing the figure. Drawings are based on a live nude model.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ARTS 200**ART 132B 3 Units****Intermediate Life Drawing****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 132A**Advisory:** ENGL 101 or ENGL 101H

This course is a review of essential concepts of figure drawing and development of intermediate-level figure drawing skills with an emphasis on accurate analysis of anatomy, essential structure and further use of traditional and non-traditional drawing materials and surfaces. The student will develop a portfolio of completed figure drawings with an emphasis on the study of advanced compositional concerns. Drawings are based on a live nude model.

Associate Degree Applicable**Transfers to both UC/CSU**

ART 132C 3 Units**Advanced Life Drawing****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 132B**Advisory:** ENGL 101 or ENGL 101H

This course is a continuation of Art 132B. In this class students will develop an original body of life drawings in various media and surfaces that reflect their knowledge of advanced life drawing techniques with a focus on preparing their portfolio for upper division courses at the university and college level and display in the gallery environment. Typical subjects covered in this class will include developing a body of original artwork that expresses the students personal style, portfolio development for upper division coursework, gallery preparation, presentation of finished artwork with appropriate matting and framing, and writing a formal artist statement. Drawings are based on a live nude model.

Associate Degree Applicable**Transfers to both UC/CSU****ART 145 3 Units****Fundamentals of Graphic Design****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This course focuses on visual communication, the design process, and creative problem solving in a digital environment. Students explore the creative potential of computer technology and design software, and learn to design, analyze, discuss, and present work in a professional manner.

Associate Degree Applicable**Transfers to both UC/CSU****ART 148 3 Units****Beginning Computer Graphic Design****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This course is an introduction to the fundamental concepts, practices and theories of digital art and design. Topics include the integration of design elements and principles, color theory, composition, typography, visual communication, professional design practices and the use of contemporary digital tools and industry-standard software.

Associate Degree Applicable**Transfers to both UC/CSU****ART 149 3 Units****Intermediate Computer Graphic Design****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 148

This intermediate level course examines the role and application of computer graphics in visual communication, with an emphasis on more complex computer skills and design problems. Career goals are explored and students develop portfolios in digital and print formats.

Associate Degree Applicable**Transfers to both UC/CSU****ART 161 3 Units****Digital Photography****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This introductory course focuses on photography as a creative medium. Emphasis in the course is on aesthetics, composition, content, technical and creative skills required to make effective images using digital cameras and computer software. Students also critically evaluate photographic images according to the principles of photographic theory. Students will supply their own camera.

Associate Degree Applicable**Transfers to both UC/CSU****ART 175A 3 Units****Beginning Sculpture****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This course is an introduction to three-dimensional sculptural principles, techniques, and concepts utilizing a wide range of materials and practices. Various sculpture methods are practiced with attention to creative self-expression and historical context.

Associate Degree Applicable**Transfers to both UC/CSU****ART 175B 3 Units****Intermediate Sculpture****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 175A**Advisory:** ENGL 101 or ENGL 101H

This course is the study of intermediate level sculpture techniques relating to three dimensional composition, spatial relationships, and imagery, with a focus on modeling techniques in clay and mixed media construction. A continued focus of attention to creative self-expression within both a historical and contemporary context is emphasized.

Associate Degree Applicable**Transfers to both UC/CSU****ART 175C 3 Units****Advanced Sculpture****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 175B**Advisory:** ENGL 101 or ENGL 101H

This course focuses on how to develop an original body of sculptural objects that reflects knowledge of advanced sculptural techniques. Students prepare their portfolio for upper division courses at the university and college level and display in the gallery environment. Typical subjects covered in this class will include developing a body of original artwork that expresses the students' personal style, portfolio development for upper division coursework, gallery preparation, and writing a formal artist statement.

Associate Degree Applicable**Transfers to both UC/CSU**

ART 180 3 Units**Beginning 3D Computer Animation****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ART 120 and ART 124A and ART 148

This course focuses on beginning techniques in 3D animation. Students are introduced to 3D design, rendering, key frame animation, and lighting.

Associate Degree Applicable**Transfers to CSU only****ART 185 3 Units****Beginning Website Design****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 148

This course focuses on the elements of website production, including eXtensible HyperText Markup Language (XHTML) and Cascading Style Sheets (CSS). The course emphasizes preparing web content and designing website layouts in Adobe DreamWeaver. Practical and theoretical understanding of problems related to digital technologies are presented.

Associate Degree Applicable**Transfers to CSU only****ART 186 3 Units****Interactive Web Design****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 185

This course focuses on designing and creating websites for multiple screen devices while highlighting the user experience. Emphasis is on design concepts, as well as an understanding of structure, web media impact and social media marketing.

Associate Degree Applicable**Transfers to CSU only****ART 212A 3 Units****Beginning Ceramics****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This course is an introduction to ceramics materials, concepts, and processes including basic design principles, creative development, hand-building, throwing, glaze techniques, firing and ceramic terminology. The course covers aesthetics and creative development of clay objects examining historical, contemporary, and personal modes of expression across cultures.

Associate Degree Applicable**Transfers to both UC/CSU****ART 212B 3 Units****Intermediate Ceramics****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 212A**Advisory:** ENGL 101 or ENGL 101H

This course builds on and extends skills and abilities students gain from the introduction course. Emphasis is placed on projects that require students to collaborate and explore a wide variety of topics. Students will use methods and fabrication techniques that are focused on production and have commercial applications.

Associate Degree Applicable**Transfers to both UC/CSU****ART 212C 3 Units****Intermediate/Advanced Ceramics****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 212B**Advisory:** ENGL 101 or ENGL 101H

This course focuses on the science of ceramic art. Students will study, classify, and understand information/data related to the history and chemistry of clay and glazes. They will learn classic methods of compounding glazes by mathematical and chemical calculation; deducing facts and basic principles essential to glaze analysis of constituent materials. Under supervision students will experiment, assess and gain knowledge that applies to the maintenance, operation, and controlled results of firing kilns.

Associate Degree Applicable**Transfers to both UC/CSU****ART 212D 3 Units****Advanced Ceramics****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 212C**Advisory:** ENGL 101 or ENGL 101H

This course examines ideas, activities, and circumstances that lead to pre-professional ends with an emphasis on developing a personal style and artistic vision. Demonstrations of advanced levels with a focus on portfolio development along with studio operations will be explored. This course is designed for the advanced student who is motivated to pursue a professional path. A written analysis of a current ceramic exhibition is required.

Associate Degree Applicable**Transfers to both UC/CSU****ART 240A 3 Units****Beginning Glassblowing****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This course is a beginning study of glass working techniques, including designing and producing vessel and sculptural forms in hot glass. Emphasis is on exploration of color, hot applications, team work, repeatable forms, sandblasting, cold working/fabrications, and non-conventional methods.

Associate Degree Applicable**Transfers to both UC/CSU****ART 240B 3 Units****Intermediate Glassblowing****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 240A**Advisory:** ENGL 101 or ENGL 101H

This course is an intermediate study of hot glassworking techniques with an emphasis on developing and refining skills based on design and form. Demonstrations of intermediate techniques include team glassblowing, use of molds and repeatable forms, geared towards acquiring competence in studio management and production.

Associate Degree Applicable**Transfers to both UC/CSU**

ART 240C 3 Units**Intermediate/Advanced Glassblowing****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 240B**Advisory:** ENGL 101 or ENGL 101H

This course is an intermediate/advanced study of glassworking techniques with an emphasis on the exploration of color design. Demonstrations of advanced color techniques will include graal, encalmo, cone work (Filigrana, Zanfirico) and murrin.

Associate Degree Applicable**Transfers to both UC/CSU****ART 240D 3 Units****Advanced Glassblowing****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 240C**Advisory:** ENGL 101 or ENGL 101H

This course is an advanced study of glassblowing techniques. This class uses glass as an integral part of the artistic vision. Students will observe demonstrations and work both individually and within groups to develop a body of work. Emphasis is on exploration, personal narrative, both traditional and non-conventional glassblowing methods, installations, etc.

Associate Degree Applicable**Transfers to both UC/CSU****ART 270A 3 Units****Beginning Design in Glass****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This course is a study of beginning glass-working techniques. Topics include producing functional, decorative, and sculptural forms in kiln-fired glass; composition in two dimensions using fusion/lamination of colored glass elements; and lampworked beads.

Associate Degree Applicable**Transfers to both UC/CSU****ART 270B 3 Units****Intermediate Design in Glass****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 270A**Advisory:** ENGL 101 or ENGL 101H

This course is a study of intermediate glass-working techniques. Topics include designing and producing increasingly complex projects, techniques in fused glass, kiln controls, forming lost wax molds, and increasing complex soldering and lampworking.

Associate Degree Applicable**Transfers to both UC/CSU****ART 270C 3 Units****Intermediate/Advanced Design in Glass****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 270B**Advisory:** ENGL 101 or ENGL 101H

This course is a study of intermediate/advanced glass-working techniques. Topics include designing and producing increasingly complex projects, using different compatible materials, experimental techniques, monitoring live slumping of glass and cold-working glass.

Associate Degree Applicable**Transfers to both UC/CSU****ART 270D 3 Units****Advanced Design in Glass****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 270C**Advisory:** ENGL 101 or ENGL 101H

This course is a study of advanced glass-working techniques. Topics include advanced mold making, casting glass, communication of creative ideas, demonstration of critical thinking skills, establishing theme and applying appropriate finishing techniques.

Associate Degree Applicable**Transfers to both UC/CSU**

Art Associate of Arts Degree

To graduate with a specialization in Art, students must complete the following required courses plus the general breadth requirements for the Associate Degree (total = 60 units). The art courses chosen should reflect the individual student's interests.

Code	Title	Units
Required Courses		
ART 100	Art History: The Stone Age to the Middle Ages	3
ART 120	Two-Dimensional Design	3
ART 124A	Beginning Drawing	3
ART 148	Beginning Computer Graphic Design	3
ART 161	Digital Photography	3
ART 126A	Beginning Painting	3
or ART 132A	Beginning Life Drawing	
Select one of the following Art History courses:		3
ART 102	Art History: Renaissance to Present	3
or ART 102H	Art History: Renaissance to Present - Honors	
ART 105	History of Modern Art	3
ART 107	Art History: Africa, Oceania and the Americas	3
ART 108	Art of Mexico and Mesoamerica	3
Select one of the following Design courses:		3
ART 121	Three-Dimensional Design	3
ART 175A	Beginning Sculpture	3
ART 212A	Beginning Ceramics	3
Total Units		24

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Will integrate drawing and design skills into their aesthetic sensibility
- Demonstrate an understanding of the evolution of art history

- Demonstrate skill in the use of basic tools, techniques, and processes to work from concept to finished product. This includes knowledge of basic materials and technical procedures in 2D and 3D media

Graphic Design Associate of Arts Degree

To graduate with a specialization in Graphic Design, students must complete the following required courses plus the general breadth requirements for the Associate Degree (total =60 units). The art courses chosen should reflect the individual student's interests.

Code	Title	Units
Required Courses		
ART 100	Art History: The Stone Age to the Middle Ages	3
ART 120	Two-Dimensional Design	3
ART 124A	Beginning Drawing	3
ART 145	Fundamentals of Graphic Design	3
ART 148	Beginning Computer Graphic Design	3
ART 161	Digital Photography	3
Select one of the following Art History courses:		
ART 102	Art History: Renaissance to Present	3
or ART 102H	Art History: Renaissance to Present - Honors	
ART 105	History of Modern Art	3
ART 107	Art History: Africa, Oceania and the Americas	3
ART 108	Art of Mexico and Mesoamerica	3
Total Units		21

Code	Title	Units
Recommended Courses		
ART 121	Three-Dimensional Design	3
ART 126A	Beginning Painting	3
ART 132A	Beginning Life Drawing	3
ART 149	Intermediate Computer Graphic Design	3
ART 180	Beginning 3D Computer Animation	3
ART 185	Beginning Website Design	3
BUSAD 100	Introduction to Business	3

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Integrate drawing and design skills into their aesthetic sensibility
- Have an understanding of the evolution of art history
- Demonstrate knowledge and skills in the use of basic concepts, tools and techniques of digital media to produce art works concept to finished product

- Have the skills to understand and apply technical and design standards for print media
- Assemble a portfolio that demonstrates preparation for work as an entry-level production artist or graphic designer

Graphic Design Certificate of Achievement

This certificate is designed to prepare students for entry-level work using a variety of print, electronic, and film media to create designs that meet clients' commercial needs.

Code	Title	Units
Required Courses		
ENGL 101	Freshman Composition	4
or ENGL 101H	Freshman Composition-Honors	
ART 120	Two-Dimensional Design	3
ART 145	Fundamentals of Graphic Design	3
ART 148	Beginning Computer Graphic Design	3
ART 149	Intermediate Computer Graphic Design	3
ART 161	Digital Photography	3
ART 185	Beginning Website Design	3
or BUSAD 100	Introduction to Business	
Select one of the following Art History courses:		
ART 100	Art History: The Stone Age to the Middle Ages	3
ART 102	Art History: Renaissance to Present	3
or ART 102H	Art History: Renaissance to Present - Honors	
ART 105	History of Modern Art	3
ART 107	Art History: Africa, Oceania and the Americas	3
ART 108	Art of Mexico and Mesoamerica	3
Total Units		25

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Integrate design skills into their aesthetic sensibility
- Have an understanding of the evolution of art history
- Demonstrate knowledge and skills in the use of basic concepts, tools and techniques of digital media to produce art works concept to finished product
- Have the skills to understand and apply technical and design standards for print media
- Assemble a portfolio that demonstrates preparation for work as an entry-level production artist or graphic designer

Studio Arts Associate of Arts Transfer Degree

The Associate of Arts for Transfer (AA-T) in Studio Arts develops a well-rounded artist. Students who pursue this degree will have guaranteed admission to a California State University (CSU) campus upon successful completion of the specified program requirements. This degree provides

students with transfer preparation and pre-professional training. Students should consult with a counselor to determine whether this degree is the best option for their transfer goals.

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

To earn a Studio Arts AA-T degree, students must complete the following Associate Degree for Transfer requirements:

- completion of the following major requirements with grades of C or better;
- completion of a minimum of 60 CSU transferable semester units with a grade point average of at least 2.0; and
- certified completion of the CSU General Education-Breadth (CSU-GE) or Intersegmental General Education Transfer Curriculum (IGETC) for CSU, which requires a minimum of 37-39 units.

It is highly recommended that students complete courses that satisfy the U.S. History, Constitution, and American Ideals requirement as part of CSU-GE or IGETC before transferring to a CSU.

Students planning to transfer to a baccalaureate institution and major in Studio Arts should consult with a counselor regarding the transfer process and lower division requirements.

Code	Title	Units
Required Courses (12 units)		
ART 102	Art History: Renaissance to Present	3
or ART 102H	Art History: Renaissance to Present - Honors	
ART 120	Two-Dimensional Design	3
ART 121	Three-Dimensional Design	3
ART 124A	Beginning Drawing	3
List A: Select one course (3 units)		
ART 100	Art History: The Stone Age to the Middle Ages	3
ART 105	History of Modern Art	3
ART 107	Art History: Africa, Oceania and the Americas	3
List B: Select three courses (9 units)		
ART 132A	Beginning Life Drawing	3
or ART 124B	Intermediate Drawing	
ART 126A	Beginning Painting	3
ART 145	Fundamentals of Graphic Design	3
ART 161	Digital Photography	3
ART 175A	Beginning Sculpture	3
ART 180	Beginning 3D Computer Animation	3
ART 185	Beginning Website Design	3
ART 212A	Beginning Ceramics	3
ART 240A	Beginning Glassblowing	3
Code	Title	Units
Major Total		24
Total Units That May Be Double Counted		6
General Education (CSU-GE or IGETC) Units		37-39
Elective (CSU Transferable) Units		3-5
Total Units		60

See *Section on Degree, Certificate, and Transfer Information for additional information on the Associate Degrees for Transfer.*

To earn an SBVC Associate Degree for Transfer (AA-T or AS-T) students must complete one of the following general education patterns:

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Articulate ideas utilizing art terminology for critical discussion
- Demonstrate proficient technical and creative skills with a variety of art materials
- Effectively develop concepts into physical form
- Describe and discuss art in its aesthetic, cultural and historical context

Web and Multimedia Design Certificate of Achievement

This certificate is designed to prepare students for entry-level work in a variety of occupations related to web site design, development, creation, and maintenance.

Code	Title	Units
Required Courses		
ENGL 101	Freshman Composition	4
or ENGL 101H	Freshman Composition-Honors	
ART 120	Two-Dimensional Design	3
ART 148	Beginning Computer Graphic Design	3
ART 161	Digital Photography	3
ART 185	Beginning Website Design	3
ART 186	Interactive Web Design	3
ART 180	Beginning 3D Computer Animation	3
or BUSAD 100	Introduction to Business	
Select one of the following Art History courses:		3
ART 100	Art History: The Stone Age to the Middle Ages	3
ART 102	Art History: Renaissance to Present	3
or ART 102H	Art History: Renaissance to Present - Honors	
ART 105	History of Modern Art	3
ART 107	Art History: Africa, Oceania and the Americas	3
ART 108	Art of Mexico and Mesoamerica	3
Total Units		25
<i>Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.</i>		

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Integrate design skills into their aesthetic sensibility
- Have an understanding of the evolution of art history

- Demonstrate knowledge and skills in the use of basic concepts, tools and techniques of digital media to produce art works concept to finished product
- Demonstrate the knowledge and skill to apply technical standards in design, typography and animation on the web
- Assemble a portfolio that demonstrates preparation for work as an entry-level web designer

Astronomy

Astronomy is the study of the vast universe around us. We start with the earth and sweep outward past the moon to the planets of the solar system and our sun, one of the billions of stars in our galaxy. On our journey through the universe, we explore an exciting realm populated by black holes, quasars, red giants, white dwarfs, and more. Astronomy is taught in a modern planetarium, which accurately simulates the nighttime sky, showing the positions and motions of the stars and planets. The real sky can be viewed through the sixteen-inch reflector telescope in the N. A. Richardson Astronomical Observatory. Students planning to transfer to a four-year institution and major in astronomy should consult with a counselor regarding the transfer process and lower division requirements.

Contact Information

Division: Science (PS - 148)

Division Phone Number: (909) 384-8645

Faculty Chair: Anna Tolstova (%20atolstov@sbccd.edu), M.S.

- Astronomy Associate of Science Degree (p. 89)

ASTRON 120 3 Units

Introduction to Astronomy

Lecture: 54 contact hours

Advisory: MATH 095 or MATH 096 and ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This is an introduction to astronomy, the ultimate adventure. Our very big universe can be described by a small set of knowable rules through a logical method called science, where the excitement of an evolving and sometimes violent universe of stars and galaxies is explored. Topics include the night sky, motions of the Sun, the Moon, and the planets, light, properties and life cycles of stars with a detailed look at our Sun, galaxies, and the origin of the universe.

Associate Degree Applicable

Transfers to both UC/CSU

ASTRON 125 1 Unit

Astronomy Laboratory

Lab: 54 contact hours

Prerequisite/Corequisite: ASTRON 120

This course is the companion course to ASTRON 120 Introduction to Astronomy. Laboratory work provides a hands-on enrichment and deeper understanding of topics discussed in the astronomy lecture. Topics include use of star maps, identification of constellations, determination of orbits, rotation rate, and mass of celestial objects using astronomical methods of observation and analysis. Students will also perform 3-D modeling of the solar system and constellations, study the nature of light, lenses and telescopes, make some direct observations with telescopes, and utilize astronomical software.

Associate Degree Applicable

Transfers to both UC/CSU

ASTRON 222 1-3 Units

Independent Study in Astronomy

DIR: 54 contact hours

Prerequisite: ASTRON 120

Advisory: ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

Students with previous course work in Astronomy may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of Astronomy. Prior to registration, a written contract must be prepared jointly by the instructor and the student.

Associate Degree Applicable

Transfers to CSU only

Astronomy Associate of Science Degree

To graduate with a specialization in Astronomy, students must complete the following required courses plus the general breadth requirements for the Associate Degree (minimum 60 semester units).

Code	Title	Units
Required Courses		
ASTRON 120 & ASTRON 125	Introduction to Astronomy and Astronomy Laboratory	4
MATH 250	Single Variable Calculus I	4
MATH 251	Single Variable Calculus II	4
MATH 252	Multivariable Calculus	5
PHYSIC 202	Physics I	4
Total Units		21

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Define physics and astronomical concepts, including the major structures, events, and components that make up the Universe and led to the formation of our current celestial systems
- Identify how the various principles of physics and astronomy describe the properties of stars, planets, galaxies, and their motion
- Demonstrate standard laboratory techniques commonly acquired in lower-division coursework

Automotive Collision

The Collision Department offers courses designed to provide the skills and knowledge required for immediate employment as well as for students with a personal interest in collision.

Contact Information

Division: Applied Technology, Transportation, and Culinary Arts (T - 108)

Division Phone Number: (909) 384-4451

Faculty Chair: Kenny Melancon (bmelancon@sbccd.edu), A.S.

- Advanced Automotive Collision Repair and Refinishing Associate of Science Degree (p. 90)
- Basic Automotive Collision Repair and Refinishing Associate of Science Degree (p. 92)
- Advanced Automotive Collision Repair and Refinishing Certificate of Achievement (p. 91)
- Automotive Interiors Certificate of Achievement (p. 91)
- Automotive Interiors Certificate of Completion (p. 91)
- Basic Automotive Collision Repair and Refinishing Certificate of Achievement (p. 92)
- Street Rod Construction Certificate of Achievement (p. 92)
- Street Rod Construction Certificate of Completion (p. 92)

See *Automotive Technology Section* for additional Automotive Collision Courses

AUTOIN 010 4 Units

Basic Auto Upholstery

Lecture: 36 contact hours

Lab: 108 contact hours

This course offers students basic theory and practical experience in creating custom automotive interiors. Safe work practices and the use of tools to develop, cut, sew and fit are emphasized.

Associate Degree Applicable

AUTOIN 012 4 Units

Advanced Custom Auto Interiors

Lecture: 36 contact hours

Lab: 108 contact hours

This course offers advanced level instruction on theory and installation of custom and hot rod automotive interiors. Safe work practices and the use of tools to design, cut, sew and fit complex interiors are emphasized.

Associate Degree Applicable

AUTOIN 610 Noncredit

Basic Auto Upholstery

Lecture: 36 contact hours

Lab: 108 contact hours

This noncredit course offers students basic theory and practical experience in creating custom automotive interiors. Safe work practices and the use of tools to develop, cut, sew and fit are emphasized.

AUTOIN 612 Noncredit

Advanced Custom Auto Interiors

Lecture: 36 contact hours

Lab: 108 contact hours

This noncredit course offers advanced level instruction on theory and installation of custom and hot rod automotive interiors. Safe work practices and the use of tools to design, cut, sew and fit complex interiors are emphasized.

AUTORS 010 4 Units

Basic Vehicle Restoration

Lecture: 36 contact hours

Lab: 108 contact hours

Advisory: AUTOST 010 and AUTO 022

The course includes basic vehicle restoration theory and practical experience as well as safe work practices, disassembly, cleaning, body repair, welding and assembly.

Associate Degree Applicable

AUTORS 610 Noncredit

Basic Vehicle Restoration

Lecture: 36 contact hours

Lab: 108 contact hours

The noncredit course includes basic vehicle restoration theory and practical experience as well as safe work practices, disassembly, cleaning, body repair, welding and assembly.

AUTOST 010 4 Units

Beginning Street Rod Construction

Lecture: 54 contact hours

Lab: 54 contact hours

Advisory: AUTOST 010 and AUTO 022

This course covers theory and practical experience in building a street rod vehicle. Topics include shop safety, design and construction of frame and chassis systems and components, body repair, paint preparation, refinishing, and welding.

Associate Degree Applicable

AUTOST 610 Noncredit

Beginning Street Rod Construction

Lecture: 54 contact hours

Lab: 54 contact hours

This noncredit course covers theory and practical experience in building a street rod vehicle. Topics include shop safety, design and construction of frame and chassis systems and components, body repair, paint preparation, refinishing, and welding.

Advanced Automotive Collision Repair and Refinishing Associate of Science Degree

This degree is designed to prepare students for entry-level work as an auto collision repair technician and/or painter apprentice beyond the Basic Automotive Collision Repair and Refinishing Certificate. To graduate with a specialization in Advanced Automotive Collision Repair and Refinishing, students must complete the following courses plus the general breadth requirements for the associate of science degree (minimum total = 60 units).

Code	Title	Units
Required Courses		
AUTO 020	Non-Structural Body Repair	6
AUTO 022	Non-Structural Collision Repair	6
AUTO 024	Structural Analysis and Damage Repair	6
AUTO 026	Auto Collision Refinishing	6
AUTO 030	Mechanical Technology for the Collision Specialist	5
AUTORS 010	Basic Vehicle Restoration	4
	or AUTOST 010 Beginning Street Rod Construction	
Total Units		33

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Estimate damage and make an appraisal
- Obtain and recognize damage sustained by each of the three sections of the vehicle
- Use common resources to identify the damage sustained by the vehicle
- Measure and evaluate structural damage
- Identify and analyze types of damage to a vehicle
- Determine whether or not a vehicle is a total loss or a repairable vehicle
- Interpret computer-assisted and manually written estimates; verify the information is current

Advanced Automotive Collision Repair and Refinishing Certificate of Achievement

This certificate is designed to prepare students for entry-level work as an auto collision repair technician and/or painter apprentice beyond the Basic Automotive Collision Repair and Refinishing Certificate and to prepare students for the Automotive Service Excellence (ASE) certification test.

Code	Title	Units
Required Courses		
AUTO 020	Non-Structural Body Repair	6
AUTO 022	Non-Structural Collision Repair	6
AUTO 024	Structural Analysis and Damage Repair	6
AUTO 026	Auto Collision Refinishing	6
AUTO 030	Mechanical Technology for the Collision Specialist	5
AUTORS 010	Basic Vehicle Restoration	4
	or AUTOST 010 Beginning Street Rod Construction	
Total Units		33

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Repair doors, glasses, and leaks
- Diagnose and repair vehicle damage on full frame and uni-body vehicles
- Execute multiple refinishing techniques
- Repair urethane plastics

- Measure and evaluate structural damage
- Estimate a damage vehicle and make an appraisal

Automotive Interiors Certificate of Achievement

This certificate is designed to prepare students for entry-level work/employment as an auto interiors technician.

Code	Title	Units
Required Courses		
AUTO 020	Non-Structural Body Repair	6
AUTOIN 010	Basic Auto Upholstery	4
AUTOIN 012	Advanced Custom Auto Interiors	4
AUTOST 010	Beginning Street Rod Construction	4
Total Units		18

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Identify automotive interior component integrity
- Identify and utilize materials, tools and equipment essential to the automotive interior sector
- Dismantle/remove/uninstall and install automotive interior components
- Restore and/or customize automotive interior components

Automotive Interiors Certificate of Completion

This noncredit certificate is designed to prepare students for entry-level work/employment as an auto interiors technician.

Code	Title	Units
Required Courses		
AUTO 620	Non-Structural Body Repair	128-144
AUTOIN 610	Basic Auto Upholstery	128-144
AUTOIN 612	Advanced Custom Auto Interiors	128-144
AUTOST 610	Beginning Street Rod Construction	96-108
Total Hours		480-540

Program Learning Outcomes

At the completion of this program, students will be able to:

- Identify automotive interior component integrity
- Identify and utilize materials, tools and equipment essential to the automotive interior sector
- Dismantle/remove/uninstall and install automotive interior components
- Restore and/or customize automotive interior components

Basic Automotive Collision Repair and Refinishing Associate of Science Degree

This degree prepares students for entry-level work as an automotive collision repair technician, structural repair technician, or painter apprentice. Upon completion of this degree, students can work in areas, such as automotive dealerships, auto collision repair facilities, frame repair, or as a parts counter clerk. To graduate with a specialization in Basic Automotive Collision Repair and Refinishing, students must complete all requirements for the certificate with a grade of C or better plus the general breadth requirements for the Associate of Science Degree (minimum total = 60 units).

Code	Title	Units
Required Courses		
AUTO 020	Non-Structural Body Repair ¹	6
AUTO 022	Non-Structural Collision Repair	6
AUTO 024	Structural Analysis and Damage Repair	6
AUTO 026	Auto Collision Refinishing	6
Total Units		24

¹ AUTO 020 may be waived through the Articulation 2+2 program with prior agreement with the auto collision and refinishing instructor.

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Obtain and recognize damage sustained by each of the three sections of the vehicle
- Use common resources to identify the damage sustained by the vehicle
- Measure and evaluate structural damage
- Identify and analyze types of damage to a vehicle

Basic Automotive Collision Repair and Refinishing Certificate of Achievement

This certificate is designed to prepare students for entry-level work as an auto collision repair and painter apprentice, or in related areas of an automotive dealership or shop, such as chassis, front end, or frame repair, and parts counter clerk.

Code	Title	Units
Required Courses		
AUTO 020	Non-Structural Body Repair ¹	6

AUTO 022	Non-Structural Collision Repair	6
AUTO 024	Structural Analysis and Damage Repair	6
AUTO 026	Auto Collision Refinishing	6
Total Units		24

¹ AUTO 020 may be waived through the Articulation 2+2+2 program with prior agreement with the auto collision and refinishing instructor.

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Obtain and recognize damage sustained by each of the three sections of the vehicle
- Use common resources to identify the damage sustained by the vehicle
- Measure and evaluate structural damage
- Identify and analyze types of damage to a vehicle

Street Rod Construction Certificate of Achievement

This certificate is designed to prepare students for entry level work as a street rod builder apprentice or related areas of the auto related industry.

Code	Title	Units
Required Courses		
AUTOST 010	Beginning Street Rod Construction	4
AUTORS 010	Basic Vehicle Restoration	4
AUTO 020	Non-Structural Body Repair	6
Total Units		14

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

Program Learning Outcomes

At the completion of this program, students will be able to:

- Obtain and recognize damage sustained by each of the three sections of the vehicle
- Use common resources to identify the damage sustained by the vehicle
- Measure and evaluate structural damage
- Identify and analyze types of damage to a vehicle

Street Rod Construction Certificate of Completion

This noncredit certificate is designed to prepare students for entry level work as a street rod builder apprentice or related areas of the auto related industry.

Code	Title	Units
Required Courses		
AUTOST 610	Beginning Street Rod Construction	96-108
AUTORS 610	Basic Vehicle Restoration	128-144

AUTO 620	Non-Structural Body Repair	128-144
Total Hours		352-396

Program Learning Outcomes

At the completion of this program, students will be able to:

- Estimate damage on a street rod and make a repair plan
- Use common resources to identify the damage sustained by the vehicle
- Measure and evaluate structural and sheet metal damage
- Determine whether or not a vehicle is a total loss or a repairable vehicle
- Restore damaged sheet metal to original shape

Automotive Technology

The Automotive Technology Department offers courses designed to provide the skills and knowledge required for immediate employment as well as for students with a personal interest in automotive technology. The course of study in automotive technology may lead to an Associate of Science Degree or a vocational certificate.

Contact Information

Division: Applied Technology, Transportation, and Culinary Arts (T - 108)

Division Phone Number: (909) 384-4451

Faculty Chair: Kenny Melancon (bmelancon@sbccd.edu), A.S.

-
- Automatic and Manual Transmission Associate of Science Degree (p. 95)
 - Automotive Technician Associate of Science Degree (p. 96)
 - Engine Performance Associate of Science Degree (p. 97)
 - Wheel Alignment and Brakes Associate of Science Degree (p. 98)
 - Automatic and Manual Transmission Certificate of Achievement (p. 96)
 - Automotive Technician Certificate of Achievement (p. 97)
 - Engine Performance Certificate of Achievement (p. 98)
 - Preventative Maintenance Technician Certificate of Achievement (p. 98)
 - Wheel Alignment and Brakes Certificate of Achievement (p. 99)

AUTO 010 4 Units

Introduction to Hybrid and Electric Vehicle Technology

Lecture: 54 contact hours

Lab: 54 contact hours

This course explores the use of hybrid and electric battery power for vehicle transportation. Topics will include safety when using high voltage, maintenance, drivability, inverter, AC/DC power transfer and battery technology, physics of battery storage and hybrid generation systems. Electric vehicle applications and their integrated systems from many manufacturers will be discussed.

Associate Degree Applicable

AUTO 020 6 Units

Non-Structural Body Repair

Lecture: 90 contact hours

Lab: 54 contact hours

This course covers theory and practical experience in automotive collision damage repair and shop safety with a focus on automotive construction, regulations, oxyacetylene and Metal Inert Gas (MIG) welding, surface preparation, basic spray painting, and detailing. This course may be used in preparation for the Automotive Service Excellence (ASE) National Test B-3.

Associate Degree Applicable

AUTO 022 6 Units

Non-Structural Collision Repair

Lecture: 90 contact hours

Lab: 54 contact hours

This course covers theory and practical experience in automotive collision damage repair and shop safety with a focus on laws and regulations, refinishing techniques, Metal Inert Gas (MIG) welding and steering, suspension and vehicle alignment, and Hybrid and electric vehicle safety procedures. This course may be used in preparation for the Automotive Service Excellence (ASE) National B3 Test.

Associate Degree Applicable

AUTO 024 6 Units

Structural Analysis and Damage Repair

Lecture: 90 contact hours

Lab: 54 contact hours

Advisory: AUTOST 010 and AUTO 022

This course covers theory and practical experience in auto collision repair and shop safety, with a focus on Metal Inert Gas (MIG) welding, panel replacement, theory and practical experience in minor uni-body frame measuring and repair, basic hybrid body repair, and hybrid and electric vehicle safety procedures. This course may be used in preparation for the Automotive Service Excellence (ASE) National B4 Test.

Associate Degree Applicable

AUTO 026 6 Units

Auto Collision Refinishing

Lecture: 90 contact hours

Lab: 54 contact hours

Advisory: AUTOST 010 and AUTO 022

This course covers theory and practical experience in automotive collision repair and refinishing, shop safety practices, personal safety, and health protection as outlined by Environmental Protection Agency (EPA) and South Coast Air Quality Management District (SCAQMD). Topics include Sheet Molded Compound (SMC) panel replacement; heat reshaping plastic parts; electrical and electronic systems; single-, two-, and three-stage refinishing systems; spot repairing/blending; polishing; detailing; estimating; and custom painting. This course may be used in preparation for the Automotive Service Excellence (ASE) National Test B2.

Associate Degree Applicable

AUTO 030 5 Units

Mechanical Technology for the Collision Specialist

Lecture: 72 contact hours

Lab: 54 contact hours

This course is an intense overview of the mechanical aspects of a vehicle as it pertains to Collision industry. Subjects covered are A/C, Electrical, SRS (Safety Restraint Systems), front end geometry and hybrid and electrical vehicle safety.

Associate Degree Applicable

AUTO 050 4 Units**Automotive Brakes****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course is based on National Automotive Technicians Education Foundation (NATEF) standards and is designed for students and current technicians to gain knowledge and skills in automotive brake (standard and antilock) systems. Topics include, but are not limited to, disc, drum, hydraulics, power boosters, and traction control with emphasis on diagnosing, troubleshooting, repairing, replacing, and adjusting. This course may be used in preparation for the Automotive Service Excellence (ASE) National Test A-5.

Associate Degree Applicable**AUTO 051 4 Units****Advanced Automotive Brakes****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** AUTO 050

This course is based on National Automotive Technicians Education Foundation (NATEF) standards and is designed for students and current technicians to gain advanced knowledge and skills in the theory and practical work in the repair of automotive brake systems. Topics include safety, machinery, procedures for troubleshooting and reconditioning brake systems, advanced study of disc, drum, hydraulics, and power boosters systems with emphasis on antilock brakes, traction control, and machining.

Associate Degree Applicable**AUTO 052 4 Units****Automotive Suspension and Steering****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course is based on National Automotive Technicians Education Foundation (NATEF) standards and is designed for students and current technicians to gain knowledge and skills in automotive chassis and suspension systems. Topics include, but are not limited to, suspension types, basic geometry, alignment angles, and two- and four-wheel alignment using both computerized and mechanical methods. Emphasis is on diagnosing, troubleshooting, repairing, replacing, and adjusting. This course may be used in preparation for the Automotive Service Excellence (ASE) National Test A-4.

Associate Degree Applicable**AUTO 053 4 Units****Advanced Automotive Suspension and Steering****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** AUTO 052

This course is designed for students and current technicians to gain advanced knowledge and skills in automotive chassis and suspension systems. Topics include, but are not limited to, suspension design, advanced geometry, alignment angles, and four-wheel alignment using computerized methods. Emphasis is on diagnosing, troubleshooting, repairing, replacing, and adjusting.

Associate Degree Applicable**AUTO 056 4 Units****Automotive Heating and Air Conditioning****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course is an in-depth study of the design and operation of contemporary, domestic and import vehicle air conditioning/heating systems. Air conditioning and heating related parts will be disassembled, inspected and a determination made of the serviceability of existing parts. Emphasis is placed on problem diagnosis of and repair procedures for these systems. This course also offers an introduction to Automatic A/C and Comfort Control Systems, and recovery and recycling of refrigerants.

Associate Degree Applicable**AUTO 064 4 Units****Auto/Truck Electrical Systems****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course covers basic electrical theory, use of meters, test equipment, wiring diagrams, diagnosis and repair/replacement of major electrical components of automobiles and trucks. Emphasis is placed on diagnosis of starting systems, charging systems, and electrical circuits such as lights and batteries.

Associate Degree Applicable**AUTO 065 5 Units****Electrical Systems Diagnosis and Repair****Lecture:** 72 contact hours**Lab:** 54 contact hours

This course provides students with the knowledge necessary to diagnose and repair automotive electrical malfunctions. Topics include lighting systems, electrical instruments and accessories, electrical door components, air bags, wiring diagrams, and alarm systems. Emphasis is placed on problem diagnosis of and repair procedures for these systems.

Associate Degree Applicable**AUTO 066 4 Units****ASE Alternative A-6, A-8, L-1 Prep Or Certificate****Lecture:** 54 contact hours**Lab:** 54 contact hours

Automotive Service Excellence (ASE) alternative course is designed for students wishing to meet the Bureau of Automotive Repair (BAR) requirements to become a Smog Technician in lieu of ASE certificates or as a preparation for ASE testing. Subject areas include reviewing of A-6 Electrical and Electronics, A-8 Engine Performance, and L-1 Advanced Engine Performance. Students wishing alternative certificate will be asked to pay for testing services for each test; State certificate expires at the end of five years.

Associate Degree Applicable**AUTO 067 4 Units****Engine and Emission Control Fundamentals****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course provides students with the information and skills necessary to complete a smog inspection and perform repairs in the basic and advanced inspection areas according to the Bureau of Automotive Repair (BAR) guidelines. The course includes engine and emission controls (Level 1), smog check (Level 2) training in inspection procedures, and Hybrid and electric vehicle safety procedures. Upon satisfactory completion of the course, students receive a state certificate for both Level 1 and Level 2.

Associate Degree Applicable

AUTO 068 5 Units**Engine Performance - Ignition Systems****Lecture:** 72 contact hours**Lab:** 54 contact hours

This course provides an in-depth study of the design and operation of domestic and import ignition systems. Major areas of study include point type, electronic, and computer control ignition systems. Emphasis is placed on the correct diagnosis of and repair procedures for these systems. The use of current diagnostic test equipment used in today's industry and strategies necessary to determine needed repairs are covered.

Associate Degree Applicable**AUTO 069 5 Units****Engine Performance - Fuel and Exhaust Systems****Lecture:** 72 contact hours**Lab:** 54 contact hours

This course is an in-depth study of the design and operation of fuel management systems including domestic and import feedback carburetor, fuel injection and computer control fuel management systems. This course covers the diagnosis and repair/replacement of major components: all sensors, injectors, fuel pumps, and interpretation of computer related malfunctions. The use of current diagnostic test equipment used in today's industry and strategies necessary to determine needed repairs are covered.

Associate Degree Applicable**AUTO 075 4 Units****Automatic Transmissions Rear Wheel Drive****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course covers theory and practical work on rear wheel drive automatic transmissions in automobile and light truck applications. The course offers training to prepare for the Automotive Service Excellence (ASE) A2 certification test.

Associate Degree Applicable**AUTO 076 4 Units****Automatic Transaxles Front Wheel Drive****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course covers theory and practical work on front wheel drive automatic transaxles in automobile applications. The course offers training to prepare for the Automotive Service Excellence (ASE) A2 certification test.

Associate Degree Applicable**AUTO 077 4 Units****Manual Transmissions and Transaxles****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course covers theory and practical work on front wheel drive manual transaxles and rear wheel drive manual transmissions in automobile and light truck applications including transfer cases, axle assemblies, and clutches.

Associate Degree Applicable**AUTO 084 4 Units****General Automotive Technology****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course covers general theory, principles, and service procedures relating to an introduction to automotive systems and maintenance with emphasis on component identification, basic functions, minor maintenance, and service.

Associate Degree Applicable**AUTO 090 6 Units****Engine Repair****Lecture:** 54 contact hours**Lab:** 162 contact hours

This course covers theory and practical work in the repair and rebuilding of automotive engines, removal, disassembly, inspection, reconditioning and reassembling of engines, rebuilding of components using automotive machine shop equipment and failure analysis of components. This course may be used in preparation for the Automotive Service Excellence (ASE) National Test A-1.

Associate Degree Applicable**AUTO 098 1-4 Units****Automotive Technology Work Experience Experience****WRKEX:** 300 contact hours

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable**AUTO 620 Noncredit****Non-Structural Body Repair****Lecture:** 90 contact hours**Lab:** 54 contact hours

This noncredit course covers theory and practical experience in automotive collision damage repair and shop safety with a focus on automotive construction, regulations, oxyacetylene and Metal Inert Gas (MIG) welding, surface preparation, basic spray painting, and detailing. This course may be used in preparation for the Automotive Service Excellence (ASE) National Test B-3.

Automatic and Manual Transmission Associate of Science Degree

This degree prepares students to gain entry-level employment in maintenance and repair of automotive and hybrid vehicle transmissions. Transmission technicians work with some of the most advanced technology in the auto service industry, including computer command control on electronic gear trains, couplings, hydraulic pumps and other transmission components. To graduate with a specialization in Automatic and Manual Transmissions, students must complete all requirements for the certificate with a grade of C or better plus the general breadth requirements for the Associate of Science Degree (minimum total = 60 units).

Code	Title	Units
Required Courses		
AUTO 064	Auto/Truck Electrical Systems	4
or HMDT 064	Auto/Truck Electrical Systems	
AUTO 075	Automatic Transmissions Rear Wheel Drive	4
AUTO 077	Manual Transmissions and Transaxles	4
AUTO 084	General Automotive Technology	4
AUTO 090	Engine Repair	6
Total Units		22

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Read and interpret automotive service manuals
- Write accurate repair orders, requests, reports and estimates
- Diagnose and repair automatic transmissions
- Diagnose and repair automatic transaxles
- Diagnose and repair manual transmissions and drive train
- Diagnose and repair engines
- Diagnose and repair electrical systems

Automatic and Manual Transmission Certificate of Achievement

This certificate prepares students to gain entry-level employment in maintenance and repair of automotive and hybrid vehicle transmissions. Transmission technicians work with some of the most advanced technology in the auto service industry, including computer command control on electronic gear trains, couplings, hydraulic pumps and other transmission components.

Code	Title	Units
Required Courses		
AUTO 064	Auto/Truck Electrical Systems	4
or HMDT 064	Auto/Truck Electrical Systems	
AUTO 075	Automatic Transmissions Rear Wheel Drive	4
AUTO 076	Automatic Transaxles Front Wheel Drive	4
AUTO 077	Manual Transmissions and Transaxles	4
AUTO 084	General Automotive Technology	4
AUTO 090	Engine Repair	6
Students must complete one of the following or assess into MATH 096 or higher.		3-4
MATH 962	Arithmetic and Prealgebra	5
TECALC 087	Technical Calculations	4
Total Units		26-31

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Read and interpret automotive service manuals
- Write accurate repair orders, requests, reports and estimates
- Diagnose and repair automatic transmissions
- Diagnose and repair automatic transaxles
- Diagnose and repair manual transmissions and drive train

- Diagnose and repair engines
- Diagnose and repair electrical systems

Automotive Technician Associate of Science Degree

The Automotive Technology curriculum is designed to concentrate on technically related courses in the repair of today's high-tech computerized automobile. Upon completion of the program, the degree holder will be able to seek employment as an entry level automobile repair technician in a dealership or the aftermarket service area, and can move into advanced automotive opportunities such as service advising and manufacturer corporate positions. The program is part of the National Automotive Technician Education Foundation (NATEF) division of Automotive Service Excellence (ASE) certified.

Code	Title	Units
Required Courses		
AUTO 010	Introduction to Hybrid and Electric Vehicle Technology	4
AUTO 050	Automotive Brakes	4
AUTO 052	Automotive Suspension and Steering	4
AUTO 056	Automotive Heating and Air Conditioning	4
AUTO 064	Auto/Truck Electrical Systems	4
or HMDT 064	Auto/Truck Electrical Systems	
AUTO 065	Electrical Systems Diagnosis and Repair	5
AUTO 068	Engine Performance - Ignition Systems	5
AUTO 069	Engine Performance - Fuel and Exhaust Systems	5
AUTO 075	Automatic Transmissions Rear Wheel Drive	4
AUTO 077	Manual Transmissions and Transaxles	4
AUTO 084	General Automotive Technology	4
AUTO 090	Engine Repair	6
Total Units		53

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Read and interpret automotive service manuals
- Write accurate repair orders, requests, reports and estimates
- Diagnose and repair automotive brake systems
- Diagnose and repair automotive suspension systems
- Diagnose and repair automotive electrical systems
- Diagnose and repair automotive emissions and engine performance
- Diagnose and repair automotive drive train systems
- Diagnose and repair automotive engines

- Diagnose and repair automotive heating and aircondition systems
- Perform general maintenance to the automobile
- Use acquired knowledge related to modern hybrid and electric vehicles and perform general maintenance and service
- Demonstrate how to perform basic maintenance related to hybrid and electric vehicles

Automotive Technician Certificate of Achievement

This certificate is designed to prepare students for entry-level work as automotive technicians working in areas such as general automotive and hybrid repair and service.

Code	Title	Units
Required Courses		
AUTO 010	Introduction to Hybrid and Electric Vehicle Technology	4
AUTO 050	Automotive Brakes	4
AUTO 052	Automotive Suspension and Steering	4
AUTO 056	Automotive Heating and Air Conditioning	4
AUTO 064	Auto/Truck Electrical Systems	4
or HMDT 064	Auto/Truck Electrical Systems	
AUTO 065	Electrical Systems Diagnosis and Repair	5
AUTO 068	Engine Performance - Ignition Systems	5
AUTO 069	Engine Performance - Fuel and Exhaust Systems	5
AUTO 075	Automatic Transmissions Rear Wheel Drive	4
AUTO 077	Manual Transmissions and Transaxles	4
AUTO 084	General Automotive Technology	4
AUTO 090	Engine Repair	6
Students must complete one of the following or assess into MATH 096 or higher:		
MATH 962	Arithmetic and Prealgebra	5
TECALC 087	Technical Calculations	4
Total Units		53-58

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Read and interpret automotive service manuals
- Write accurate repair orders, requests, reports and estimates
- Diagnose and repair automotive brake systems
- Diagnose and repair automotive suspension systems
- Diagnose and repair automotive electrical systems
- Diagnose and repair automotive emissions and engine performance
- Diagnose and repair automotive drive train systems
- Diagnose and repair automotive engines
- Diagnose and repair automotive heating and air condition systems
- Diagnose and repair general maintenance to the automobile

- Demonstrate ability to manipulate and solve a variety of applied technical problems using formula, conversion charts, and analysis with or without a calculator
- Demonstrate how to perform basic maintenance related to hybrid and electric vehicles

Engine Performance Associate of Science Degree

This degree is designed to prepare students for entry-level work as an engine performance specialist, diagnostic technician, or a state certified Smog check and repair technician. Students will become familiar with computer systems, hybrid and electrical systems, basic engine diagnosis, emissions repair, and the Smog certification test. To graduate with a specialization in Engine Performance, students must complete all requirements for the certificate with a grade of C or better plus the general breadth requirements for the Associate of Science Degree (minimum total = 60 units).

Code	Title	Units
Required Courses		
AUTO 010	Introduction to Hybrid and Electric Vehicle Technology	4
AUTO 064	Auto/Truck Electrical Systems	4
or HMDT 064	Auto/Truck Electrical Systems	
AUTO 066	ASE Alternative A-6, A-8, L-1 Prep Or Certificate	4
AUTO 067	Engine and Emission Control Fundamentals	4
AUTO 068	Engine Performance - Ignition Systems	5
AUTO 069	Engine Performance - Fuel and Exhaust Systems	5
Total Units		26

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Interpret automotive service manuals
- Write accurate repair orders, requests, reports and estimates
- Diagnose and repair engine performance systems
- Diagnose and repair automotive electrical systems
- Diagnose and repair emission systems
- Diagnose and repair ignition systems
- Diagnose and repair fuel systems
- Prepare students for A.S.E. tests A-6; A-8 and L-1
- Demonstrate how to perform basic maintenance related to hybrid and electric vehicles

Engine Performance Certificate of Achievement

This certificate is designed to prepare students for entry level work as an engine performance specialist, diagnostic technician, or a state certified Smog check and repair technician. Students will become familiar with computer systems, hybrid and electrical systems, basic engine diagnosis, emissions repair, and the Smog certification test.

Code	Title	Units
Required Courses		
AUTO 010	Introduction to Hybrid and Electric Vehicle Technology	4
AUTO 064	Auto/Truck Electrical Systems	4
or HMDT 064	Auto/Truck Electrical Systems	
AUTO 066	ASE Alternative A-6, A-8, L-1 Prep Or Certificate	4
AUTO 067	Engine and Emission Control Fundamentals	4
AUTO 068	Engine Performance - Ignition Systems	5
AUTO 069	Engine Performance - Fuel and Exhaust Systems	5
Students must complete one of the following or assess into MATH 096 or higher.		
MATH 962	Arithmetic and Prealgebra	5
TECALC 087	Technical Calculations	4
Total Units		26-31

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Diagnose and repair engine performance related repairs to automobiles
- Diagnose and repair automotive electrical systems
- Diagnose and repair emission systems
- Diagnose and repair ignition systems
- Diagnose and repair fuel systems
- Prepare students for A.S.E. tests A-6; A-8 and L-1
- Demonstrate how to perform basic maintenance related to hybrid and electric vehicles

Preventative Maintenance Technician Certificate of Achievement

This certificate is designed to prepare students for employment as technicians performing entry-level preventative maintenance and minor repairs. Typical duties include new car preparation, vehicle inspections and assisting master technicians.

Code	Title	Units
Required Courses		
AUTO 050	Automotive Brakes	4
AUTO 052	Automotive Suspension and Steering	4
AUTO 064	Auto/Truck Electrical Systems	4
or HMDT 064	Auto/Truck Electrical Systems	

AUTO 065	Electrical Systems Diagnosis and Repair	5
AUTO 084	General Automotive Technology	4
Students must complete one of the following or assess into MATH 096 or higher.		3-4
MATH 962	Arithmetic and Prealgebra	5
TECALC 087	Technical Calculations	4
Total Units		21-26

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Read and interpret automotive service manuals
- Write accurate repair orders, request, reports and estimates
- Identify automotive system components
- Diagnose and repair brake systems
- Diagnose and repair suspension systems
- Diagnose and repair vehicle electrical systems
- Manipulate and solve a variety of applied technical problems using formula, conversion charts, and analysis with or without a calculator

Wheel Alignment and Brakes Associate of Science Degree

The degree prepares students for entry-level work in front wheel and four-wheel alignment and brake repair. The technician can move into advanced automotive opportunities such as service advising and manufacturer corporate positions. To graduate with a specialization in Wheel Alignment and Brakes, students must complete all requirements for the certificate with a grade of C or better plus the general breadth requirements for the Associate of Science Degree (minimum total = 60 units).

Code	Title	Units
Required Courses		
AUTO 050	Automotive Brakes	4
AUTO 051	Advanced Automotive Brakes	4
AUTO 052	Automotive Suspension and Steering	4
AUTO 053	Advanced Automotive Suspension and Steering	4
AUTO 064	Auto/Truck Electrical Systems	4
or HMDT 064	Auto/Truck Electrical Systems	
AUTO 084	General Automotive Technology	4
Total Units		24

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Read and interpret automotive service manuals
- Write accurate repair orders, requests, reports and estimates
- Diagnose and repair automotive brakes
- Diagnose and repair automotive suspension systems
- Diagnose and repair electrical systems

Wheel Alignment and Brakes Certificate of Achievement

This certificate is designed to prepare students for entry-level work as an automotive technician working in the area of wheel alignment and brake repair.

Code	Title	Units
Required Courses		
AUTO 050	Automotive Brakes	4
AUTO 051	Advanced Automotive Brakes	4
AUTO 052	Automotive Suspension and Steering	4
AUTO 053	Advanced Automotive Suspension and Steering	4
AUTO 064	Auto/Truck Electrical Systems	4
or HMDT 064	Auto/Truck Electrical Systems	
AUTO 084	General Automotive Technology	4
Students must complete one of the following or assess into MATH 096 or higher:		
MATH 962	Arithmetic and Prealgebra	5
TECALC 087	Technical Calculations	4
Total Units		24-29

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Read and interpret automotive service manuals
- Write accurate repair orders, requests, reports and estimates
- Diagnose and repair automotive brake
- Diagnose and repair automotive suspension systems
- Diagnose and repair electrical systems

Biology

The courses offered in the Biology Department are designed to meet the demands of science and non-science majors. For non-majors, the department's goal is to educate students so they can make informed choices about key environmental and personal issues. Public awakening to environmental issues emphasizes the increasing need to appreciate various life forms, their interactions with each other, and the human impact on our finite resources. This public is increasingly asked to make decisions on issues concerning the environment and to make choices about personal habits in their daily lives that effect the earth and future generations.

For majors, the courses provide a strong background in the biological sciences for students transferring to four-year institutions who are interested in careers such as teaching, biological research, or the health sciences. Students planning to transfer to a four-year institution and major in biology or a related field should consult with a counselor regarding the transfer process and lower division requirements.

Contact Information

Division: Science (PS - 148)

Division Phone Number: (909) 384-8645

Faculty Chairs: Lorrie Burnham (lburnham@sbccd.edu), M.S. and Tatiana Vasquez (%20tvasquez@sbccd.edu), M.S.

Science Courses for Biology Majors

Students may be eligible to enroll in introductory courses depending on their results of the SBVC assessment process. Contact a Counselor to plan your transfer to a University and to discuss graduation requirements towards an AS-T or AS Biology degree. Counselors experienced with STEM fields are available in the Physical Sciences (PS) Building. Consult the Science Division or visit the Biology Department website for more information.

Code	Title	Units
Chemistry		
CHEM 101	Introductory Chemistry	4-5
or CHEM 105	Introduction to General, Organic And Biochemistry	
CHEM 150	General Chemistry I	5
CHEM 151	General Chemistry II	5

Note: CHEM 150 must be taken concurrently or previously before entering into BIOL 205.

Code	Title	Units
Biology		
BIOL 205	Cell and Molecular Biology	4
BIOL 206	Organismal Biology	4
BIOL 207	Evolutionary Ecology	4

Note: BIOL 206 and BIOL 207 may be taken out of sequence as long as BIOL 205 was taken with a passing grade. BIOL 207 is only offered in the Spring semester.

Code	Title	Units
Physics		
PHYSIC 151	General Physics for the Life Sciences I	4
PHYSIC 152	General Physics for the Life Sciences II	4

Note: PHYSIC 202 and PHYSIC 203 may be taken in lieu of PHYSIC 151 and PHYSIC 152. Consult a counselor to identify transfer programs requiring the 200 series.

To waive CHEM 101, students must:

- Complete credit-by-examination form along with other College policies and conditions provided by the Admissions and Records Office (AD/SS 100) and the Science Division (PS 148).
- Complete and pass a Chemistry examination.

Consult a STEM Counselor for additional information: <http://www.sbvstem.org/stem-counseling.php>

- Biology Associate of Science Degree (p. 102)
- Biology Associate of Science Transfer Degree (p. 102)

Note: The Biology Associate of Science Transfer Degree is intended for students who wish to transfer to a CSU.

BIOL 100 4 Units

General Biology

Lecture: 54 contact hours

Lab: 54 contact hours

Advisory: ENGL 101 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This is an introductory course for non-majors emphasizing the scientific method in investigating the origins, physiology, ecological roles, and comparative characteristics of living organisms.

Associate Degree Applicable

Transfers to both UC/CSU

BIOL 102 3 Units

Human Biology

Lecture: 54 contact hours

Prerequisite: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This is an introductory course that introduces biological principles with an emphasis on the human body. Topics include cell biology, histology, major body systems, genetics and heredity, human interaction with the environment, and major human diseases.

Associate Degree Applicable

Transfers to both UC/CSU

BIOL 104 3 Units

Human Ecology

Lecture: 54 contact hours

Prerequisite: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

The course presents the ecological consequences of human resource use and population growth. Emphasis is placed on earth's life support systems and current environmental problems threatening human health and species survival.

Associate Degree Applicable

Transfers to both UC/CSU

BIOL 109 4 Units

History of Life

Lecture: 54 contact hours

Lab: 54 contact hours

Advisory: ENGL 101 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This is an introductory course exploring the history of life on earth. The role of natural selection and evidence from geology, biogeography, and paleontology will be combined with fossils and recent organisms to interpret the clues of life's history on earth.

Associate Degree Applicable

Transfers to both UC/CSU

BIOL 109H 4 Units

History of Life - Honors

Lecture: 54 contact hours

Lab: 54 contact hours

Advisory: ENGL 101 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This is an introductory course exploring the history of life on earth. The role of natural selection and evidence from geology, biogeography, and paleontology will be combined with fossils and recent organisms to interpret the clues of life's history on earth. This course is intended for students in the Honors Program but is open to all students who desire more challenging coursework.

Associate Degree Applicable

Transfers to both UC/CSU

BIOL 140 2 Units

Biology of Sexually Transmitted Diseases

Lecture: 36 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is an examination of the social, economic, psychological, medical and legal issues surrounding sexually transmitted diseases. The topics include the pathogenesis, diagnosis and treatment of prominent sexually transmitted diseases including the impact of current biotechnology on vaccine development, treatment and diagnostics. The historical and changing attitudes and measures toward the control of sexually transmitted diseases will be reviewed.

Associate Degree Applicable

Transfers to both UC/CSU

BIOL 141 3 Units

Genetics

Lecture: 54 contact hours

Prerequisite: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is a general introduction to the fundamentals of human heredity. Topics include patterns of inheritance, the structure of DNA and its function, the role mutations play in genetic diseases and cancer, the interaction between genes and the environment, and recent advances in biotechnology and its impact on society.

Associate Degree Applicable

Transfers to both UC/CSU

BIOL 155 4 Units

Introductory Anatomy and Physiology

Lecture: 54 contact hours

Lab: 54 contact hours

Advisory: ENGL 101 or ENGL 101H as determined by the SBVC assessment process and MATH 096 or eligibility for MATH 095 as determined by the SBVC assessment process.

This course is a one-semester introduction to human anatomy and physiology. The course is intended to meet the prerequisite for students entering the Psychiatric Technician program or other professional programs that accept a lecture/lab course in human anatomy and physiology.

Associate Degree Applicable

Transfers to CSU only

BIOL 205 4 Units**Cell and Molecular Biology****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite/Corequisite:** CHEM 150 or CHEM 150H**Prerequisite:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process and MATH 095 or eligibility for MATH 102 as determined by the SBVC assessment process.**Advisory:** ENGL 101 or ENGL 101H or eligibility for ENGL 102 OR ENGL 102H as determined by process.

This course is an introduction to cellular and molecular aspects of biology emphasizing principles of scientific process, evolution by natural selection, prokaryotic and eukaryotic cell structure and function, classic and modern genetics, and concepts that integrate cellular with organismal activities. Experimental design concepts and application are emphasized in the laboratory. This is a first semester of a three-semester sequence in introductory biology for the pre-professional, biology major, or others interested in an in-depth study of biology. (Formerly BIOL 201)

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** BIOL 190/135S**BIOL 206 4 Units****Organismal Biology****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** BIOL 205 and CHEM 150 or CHEM 150H and MATH 095 or eligibility for MATH 102 as determined by the SBVC assessment process.**Advisory:** ENGL 101 or ENGL 101H or eligibility for ENGL 102 or ENGL 102H as determined by the SBVC assessment process.

This course is an introduction to the diversity of organisms, their structure, function, and adaptations to the environment. The course requires participation in field trips. This course is part of a three-semester sequence in introductory biology for the pre-professional, biology major, or others interested in an in-depth study of biology.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** BIOL 140/130S/135S**BIOL 207 4 Units****Evolutionary Ecology****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** BIOL 205 and MATH 095 or eligibility for MATH 102 as determined by the SBVC assessment process and CHEM 150 or CHEM 150H.**Advisory:** ENGL 101 or ENGL 101H or eligibility for ENGL 102 or ENGL 102H as determined by the SBVC assessment process.

This course is an introduction to the principles of evolution and the ecological processes governing organisms and populations. The course is intended for the pre-professional or biology major. The course requires participation in and completion of a field project and participation in weekend field trips. This course is part of a three-semester sequence in introductory biology for the pre-professional, biology major, or others interested in an in-depth study of biology.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** BIOL 130S/135S**BIOL 222 1-3 Units****Independent Study in Biology****DIR:** 54 contact hours

Students with previous course work in biology may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of Biology. Prior to registration, a contract must be prepared. See instructor for details.

Associate Degree Applicable**Transfers to CSU only****BIOL 250 4 Units****Human Anatomy and Physiology I****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.**Advisory:** BIOL 100

This is the first semester of a two-semester sequence that introduces students to the basic concepts and principles of human anatomy and physiology. This course provides a foundation for pre-allied professional majors or others interested in the advanced study of human biology. Topics include inorganic and organic chemistry, body orientation and organization, cytology, histology, fluid and electrolyte balances, and the following systems: nervous, skeletal, muscular, nervous, digestive system, and metabolism. Course includes dissections of preserved specimens.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** BIOL 115 BS**BIOL 251 4 Units****Human Anatomy and Physiology II****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** BIOL 250 and CHEM 101 or CHEM 105**Advisory:** BIOL 100

This is the second semester of a two-semester sequence that introduces students to the basic concepts and principles of human anatomy and physiology. This course provides a foundation for pre-professional majors or others interested in the advanced study of human biology. Topics include fluid and electrolyte balance and the following body system: integumentary, cardiovascular, lymphatic, respiratory, urinary, endocrine, and reproductive. The course includes dissections of preserved specimens.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** BIOL 115 BS**BIOL 260 4 Units****Human Anatomy****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** MATH 095 or MATH 096**Advisory:** BIOL 100 and eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This is a comprehensive lecture/laboratory course in human anatomy. It is organized to explore the body both regionally and systemically. The course studies gross anatomy with an extensive dissection of the cat and other significant organs. Relevant comparisons to human systems and structures is emphasized in the laboratory portion of the course. Histological and cellular anatomy are included as they apply to various structures and systems.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** BIOL 110B

BIOL 261 4 Units**Human Physiology****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** BIOL 260 and CHEM 105 or CHEM 101**Advisory:** BIOL 100

This course is the second semester of a two-semester sequence. It builds on an understanding of structure to explain the dynamic functions of the human body to a cellular level. Topics include physiology of the following systems: muscular, skeletal, nervous, endocrine, cardiovascular, respiratory, digestive, urinary, and reproductive. Homeostatic mechanisms and the interrelationships of body organ systems are emphasized and enhanced with clinical illustrations.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** BIOL 120B**BIOL 270 5 Units****Microbiology****Lecture:** 54 contact hours**Lab:** 108 contact hours**Prerequisite:** BIOL 205 or CHEM 101**Advisory:** BIOL 100 and ENGL 101 or ENGL 101H

This course is a formal introduction to the fundamental principles of microbiology and immunology. Attention is given to the morphology, control, metabolism and genetics of microorganisms. Emphasis is placed on the pathogenesis of and immunity to infectious diseases.

Associate Degree Applicable**Transfers to both UC/CSU**

Biology Associate of Science Degree

The Associate of Science degree in Biology is intended to provide breadth in the aspects of biology that investigate the living world including cellular physiology, genetics, ecology, and evolutionary biology. Majors in Biology prepare for a wide variety of occupations in education, government, medicine, research, and biotechnology. This degree prepares students to transfer to four-year universities to pursue a Bachelor's degree. At the four-year institutions, students may choose to specialize in one particular field of Biology. To graduate with the A.S degree in Biology, students must complete the following required courses plus the general breadth requirements for the Associate's Degree (minimum total = 60 units).

Code	Title	Units
Required Courses		
BIOL 205	Cell and Molecular Biology	4
BIOL 206	Organismal Biology	4
BIOL 207	Evolutionary Ecology	4
CHEM 150	General Chemistry I	5
CHEM 151	General Chemistry II	5
MATH 250	Single Variable Calculus I	4
MATH 251	Single Variable Calculus II	4
Total Units		30

Code	Title	Units
Recommended Courses		
CHEM 212	Organic Chemistry I	4
CHEM 213	Organic Chemistry II	4

PHYSIC 151	General Physics for the Life Sciences I	4
PHYSIC 152	General Physics for the Life Sciences II	4

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Master basic cellular, organismal, and environmental concepts and apply them to other scientific studies, voting decisions, personal habits, and lifestyle choices
- Transfer to an accredited university as a junior with a major in Biology or a related subject
- Use the principles and concepts of Biology to make a positive impact on your life, your career, and your world
- Communicate your knowledge of biological concepts to enhance the understanding of others
- Demonstrate a proficiency in standard biological laboratory techniques commonly acquired in lower-division coursework

Biology Associate of Science Transfer Degree

The Associate in Science in Biology for Transfer (AS-T) is intended for students who plan to transfer and complete a Bachelor's degree in Biology, or a similar major at a CSU campus. It serves the diverse needs of students who wish to obtain a broad and an in-depth understanding of the field. The Biology Department offers comprehensive and integrative studies in each of the introductory courses of Biology. Courses in Biology prepare students interested in careers in cell biology, genetics, physiology, developmental biology, biotechnology, zoology, botany, microbiology, evolution, ecology, behavior, environmental studies, and the health sciences. The objective of this degree is to delineate a successful career path for our community college students entering the Biology program and to provide opportunities that explore the Biology major. Upon successful completion of the AS-T in Biology, students may be able to enter majors for any of these Biology subfields. Students should consult with a counselor to determine whether this degree is the best option for their transfer goals.

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

To earn a Biology AS-T degree, students must meet the following requirements:

- completion of the following major requirements with grades of C or better;

- completion of 60 CSU transferable semester units with a grade point average of at least 2.0; and
- certified completion of the CSU General Education-Breadth (CSU-GE) for STEM or Intersegmental General Education Transfer Curriculum (IGETC-CSU) for STEM which requires a minimum of 31-33 units.

It is highly recommended that students complete courses that satisfy the U.S. History, Constitution, and American Ideals requirement as part of CSU-GE or IGETC before transferring to a CSU.

Students planning to transfer to a four-year institution and major in Biology should consult with a STEM counselor or general counselor regarding the transfer process and lower division requirements. Completion of CSU GE-Breadth for STEM or (IGETC-CSU) for STEM is required in addition to the major requirements.

Code	Title	Units
Required Core Courses		
BIOL 205	Cell and Molecular Biology	4
BIOL 206	Organismal Biology	4
BIOL 207	Evolutionary Ecology	4
List A		
CHEM 150	General Chemistry I	5
CHEM 151	General Chemistry II	5
MATH 250	Single Variable Calculus I	4
PHYSIC 151	General Physics for the Life Sciences I	4
PHYSIC 152	General Physics for the Life Sciences II	4
Code	Title	Units
Major Total		34
Total Units That May Be Double Counted		9-10
General Education (CSU-GE or IGETC for STEM)		31-33
Elective (CSU Transferable) Units		0-3
Total Units		60

Use of CSU GE-Breadth for STEM or IGETC for STEM is presumed.

See Section on Degree, Certificate, and Transfer Information for additional information on the Associate Degrees for Transfer.

To earn an SBVC Associate Degree for Transfer (AA-T or AS-T) students must complete one of the following general education patterns:

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- In writing, evaluate a claim or research to determine whether it has a basis in non-science, pseudoscience, or science
- In a written scientific report for a metabolic experiment, introduce the testable hypothesis, articulate the procedures applied, report the appropriate statistical analyses, interpret the results, and discuss uncontrolled variables
- From a primary scientific article identify a research question, and write a 2-4 page proposal in scientific format introducing research

question, background information, and methodologies that test the study question

- In writing, demonstrate knowledge of organismal biology by relating key evolutionary characteristics of an organism (prokaryote, protist, animal or plant) to the environmental selection pressures encountered at the time of their evolution
- Demonstrate knowledge of organismal biodiversity by identifying a group of organisms (from lab or field collections) using a combination of taxonomic keys and anatomical observations and organizing them into an appropriate taxonomic classification scheme and reporting the results in a written report
- In writing, demonstrate knowledge of evolutionary theory by evaluating and justifying whether a claim or statement is biologically valid under the principles of evolution
- Design and execute an experimental or observational field project. Prepare a scientific written report that includes a working hypothesis, clear description of methodology, narrative of the statistical analyses, and interpretation of the results in relationship to the working hypothesis including a discussion of uncontrolled variables

Business Administration

The Business Administration Department offers courses in the fundamentals of business organization and management as well as in marketing and business law.

For non-business majors, these courses offer a general view of the world of business and finance. For business majors, these courses provide a solid foundation in preparation for transfer to a four-year institution. Students planning to transfer to a four-year institution and major in business administration or a related field should consult with a counselor regarding the transfer process and lower division requirements.

Contact Information

Division: Mathematics, Business, and Computer Technology (B - 127)

Division Phone Number: (909) 384-8520

Faculty Chair: Michael Assumma (massumma@sbccd.edu), M.B.A.

- Business Administration Associate of Arts Degree (p. 106)
- Business Administration Associate of Science Transfer Degree (p. 106)
- Business Administration Certificate of Achievement (p. 107)
- Entrepreneurship - General Certificate of Achievement (p. 107)
- Entrepreneurship - Real Estate Certificate of Achievement (p. 108)
- Entrepreneurship - Tax Certificate of Achievement (p. 108)
- Leadership Certificate of Achievement (p. 108)
- Retail Management Certificate of Achievement (p. 109)

BUSAD 039 3 Units

Strategies for Successful Employment

Lecture: 54 contact hours

Advisory: CIT 010

This course is designed to help students develop the skills needed to successfully seek employment, including job search strategies, career paths, cover letter and resume writing, mock interviews, job applications, and positive workplace attitudes.

Associate Degree Applicable

BUSAD 050 3 Units**Business Math****Lecture:** 54 contact hours**Advisory:** MATH 962

This course covers fundamental mathematical calculations and their application to business problems. Topics include payroll, pricing, interest and discount, commission, taxes, and other pertinent uses of mathematics in the field of business.

Associate Degree Applicable**BUSAD 098 1-4 Units****Business Administration Work Experience****WRKEX:** 300 contact hours

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable**BUSAD 100 3 Units****Introduction to Business****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course will introduce students to the fundamental concepts of business in a changing world. It includes an overview of such areas as economic systems, management, marketing, accounting, finance, ethics, ownership, organization of business, the legal aspects and regulation of business, as well as globalization.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** BUS 110**BUSAD 103 3 Units****Marketing Principles****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course covers the basic principles and methods of marketing as practiced by all successfully managed business firms. This course is management-oriented, covering demand analysis, forecasting, product development, price determination, distribution channels, material handling, advertising and personal selling.

Associate Degree Applicable**Transfers to CSU only****BUSAD 105 3 Units****Small Business Management/Entrepreneurship****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course is designed for business majors and non-business majors who desire a greater knowledge of the fundamentals specifically related to the opening and operation of a small business. The course is designed to provide a working knowledge of the pitfalls associated with small business operations and how to recognize, prevent and solve problems.

Associate Degree Applicable**Transfers to CSU only****BUSAD 106 3 Units****Principles of Selling****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course covers the problems of analyzing the sales talk, making an adequate approach, meeting objectives, excuses and techniques of closing the sale, and the psychology involved in selling services, goods, ideas and one's own personality.

Associate Degree Applicable**Transfers to CSU only****BUSAD 108 3 Units****Personal Finance, Investments and Estate Planning****Lecture:** 54 contact hours

This course is an integrated approach to personal finance focusing on practical financial decision making as well as the social, psychological, and physiological contexts in which those decisions are made. The student will examine the preparation for managing one's personal finances, including financial planning, income and expense management, investment analysis, retirement planning, consumerism, long-term care, estate planning, credit management, home ownership, death and taxes.

Associate Degree Applicable**Transfers to CSU only****BUSAD 110 3 Units****Human Resource Management****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course is a survey of the objectives, functions and practices in the management of employee relations, and the impact of employee relations on the effective achievement of the organization's goals.

Associate Degree Applicable**Transfers to CSU only****BUSAD 112 3 Units****Principles of Retailing****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course will cover the role of retailing in serving the needs of the community. The topics will include analysis of consumer needs, store locations, financial requirements and legal processes of starting a retail operation, planning for store layout, merchandise mix, vendor negotiation, pricing, displaying, advertising, selling and controlling of merchandise.

Associate Degree Applicable**Transfers to CSU only****BUSAD 120 3 Units****Business Management/Leadership****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course is designed for business majors and examines the primary dimensions of the management process including planning, organizing, decision-making and controlling organizational activity. Development of effective management and leadership skills through hands-on simulation exercises.

Associate Degree Applicable**Transfers to CSU only**

BUSAD 127 3 Units**Business Communication****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course is a study of the principles and role of business communication and the need for communication skills in a global marketplace. Emphasis is placed on written communications, including business letters, proposals, resumes and other business documents. A considerable amount of time is devoted to planning, organizing, outlining, grammar and writing style.

Associate Degree Applicable**Transfers to CSU only****C-ID:** BUS 115**BUSAD 151 3 Units****Human Relations****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course provides a basic understanding of human interactions in the workplace, focusing on the roles of the individual, the group, and the organization as a whole.

Associate Degree Applicable**Transfers to CSU only****BUSAD 210 3 Units****Business Law****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course explores the legal environment in which business operates. It includes an introduction to law and legal reasoning, ethics, torts, strict and products liability, criminal law and contracts. Special emphasis is placed on acquiring a working knowledge of the rules for contracting in general and the modifications applicable under the Uniform Commercial Code for the sale of goods.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** BUSAD 125**BUSAD 211 3 Units****The Legal Environment of Business****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course includes a broad overview of the legal environment of business. Areas of employment regulation, consumer protection, environmental law, land-use control, sole proprietorships, partnerships, corporations, antitrust, securities regulation, comparative and international law are studied.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** BUS 120**BUSAD 222 1-3 Units****Independent Study in Business Administration****DIR:** 54 contact hours

Students with previous course work in Business Administration may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of Business Administration. Prior to registration, a written contract must be prepared jointly by the instructor and the student. See instructor for details.

Associate Degree Applicable**Transfers to CSU only****BUSAD 601 Noncredit****Finding and Landing a Job****Lecture:** 8 contact hours**Lab:** 16 contact hours

This course provides basic job searching and job application skills for individuals who have not been employed before or have been out of the workforce for an extended period of time. Topics include matching skills and interests to available jobs, prospecting for a job, creating a resume and cover letter, applying for a job, and interviewing. This course is recommended for individuals are looking for a job with no prior or limited prior work experience and individuals who have been out of the workforce for a significant period of time.

BUSAD 602 Noncredit**Working in a Business Office****Lecture:** 12 contact hours**Lab:** 24 contact hours

This course provides a basic working knowledge of business office procedures and tasks. Topics include effective business writing, business documents, and filing. This course is recommended for individuals who wish to seek an entry-level position as an office clerk.

BUSAD 604 Noncredit**Preparing to Be an Entrepreneur****Lecture:** 6 contact hours

This noncredit course is designed to help students discover and develop the personal attributes needed to become or to improve being a successful entrepreneur. The core of the course focuses on what it takes to become a true entrepreneur. The student will begin to understand the competencies required to be an entrepreneur through case studies, creative problem solving, and exercises aimed at self-development. Students will learn the responsibilities, the benefits and the pitfalls that await an entrepreneur.

BUSAD 605 Noncredit**Creating the Business Concept****Lecture:** 10 contact hours

This noncredit course provides a basic understanding of how to create each component of a Business Plan, including the SWOT Analysis (Strengths, Weaknesses, Opportunities, & Threats). The student will examine the industry that incorporates their business and will look at potential forces that may impact its success. They will examine the customer base and competition and discuss how to produce revenue and growth and will examine the financial situation, with a projection of the company's financial future.

BUSAD 606 Noncredit**Building the Business****Lecture:** 6 contact hours

This noncredit course teaches students the steps to take after the business plan is developed. It will give students the skills to find consulting and financial resources for their business in the Inland Empire, while teaching how social media and technology are critical to today's business culture.

BUSAD 607 Noncredit**Finding Customers/Marketing****Lecture:** 10 contact hours

This noncredit course teaches students the concepts of marketing, building a customer base and a customer service program. This course provides a basic understanding of how to create a marketing plan, strategy and implementation.

BUSAD 608 Noncredit**Finance, Taxes and Human Resources****Lecture:** 10 contact hours

This noncredit course provides a basic understanding of small business finance, taxes, and human resources. It also covers government regulations, payroll, and practices for hiring and keeping the best employees.

BUSAD 609 Noncredit**Management and Operations****Lecture:** 6 contact hours

This noncredit course provides a small business owner with the information needed to be an excellent manager and how to run their business efficiently. Students will learn how to negotiate contracts with customers and vendors. Students will also learn management techniques on how to motivate employees.

Business Administration Associate of Arts Degree

To graduate with a specialization in Business Administration students must complete the following required courses plus the general breadth requirements for the Associate Degree (total =60 units).

Code	Title	Units
Required Courses		
ACCT 200	Financial Accounting	4
ACCT 201	Managerial Accounting	4
ECON 208	Business and Economic Statistics	4
or MATH 108	Introduction to Probability and Statistics	
BUSAD 100	Introduction to Business	3
BUSAD 103	Marketing Principles	3
BUSAD 210	Business Law	3
or BUSAD 211	The Legal Environment of Business	
CIT 101	Introduction to Computer Literacy	3
ECON 200	Principles of Macroeconomics	3
or ECON 200H	Principles of Macroeconomics - Honors	
ECON 201	Principles of Microeconomics	3
or ECON 201H	Principles of Microeconomics - Honors	
Total Units		30

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate mastery of accounting procedures and practices
- Evaluate the global economy and its impact on the U.S economy

- Demonstrate an understanding of and familiarity with the world of business and its related terminology
- Analyze theories, principles, and policies of the United States economic system
- Critically assess the relationship between the individual, business, and the global economy
- Apply the methods of effective business communication
- Describe the legal aspects of business operation
- Consider the ethical and social responsibility issues affecting the current business environment

Business Administration Associate of Science Transfer Degree

The Associate in Science for Transfer (AS-T) in Business Administration provides opportunities for students through the Student Transfer Achievement Reform Act (SB 1440). The law states that students will have guaranteed admission to a California State University (CSU) campus upon successful completion of the specified program requirements. This degree is designed to provide students with the common core of lower division courses required to transfer and pursue a baccalaureate degree in Business Administration. This includes business degrees with options such as accounting, finance, human resources management, international business, management, operations management, and marketing.

The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an 'associate degree for transfer', a newly established variation of the associate degrees traditionally offered at a California community college. The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated 'high unit' major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

To earn this AS-T degree, students must complete the following Associate Degree for Transfer requirements:

- 60 semester or 90 quarter CSU-transferable units
- the California State University-General Education Breadth pattern (CSU GE-Breadth); OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.
- a minimum of 18 semester or 27 quarter units in the major or area of emphasis as determined by the community college district
- obtainment of a minimum grade point average (GPA) of 2.0
- earn a grade of C or better in all courses required for the major or area of emphasis

Students planning to transfer to a four-year institution and major in Business Administration should consult with a counselor regarding the transfer process and lower division requirements.

Code	Title	Units
Required Courses		
ACCT 200	Financial Accounting	4
ACCT 201	Managerial Accounting	4
ECON 200	Principles of Macroeconomics	3
or ECON 200H	Principles of Macroeconomics - Honors	
ECON 201	Principles of Microeconomics	3
or ECON 201H	Principles of Microeconomics - Honors	
BUSAD 210	Business Law	3
or BUSAD 211	The Legal Environment of Business	
List A - Select one		4
ECON 208	Business and Economic Statistics	4
MATH 108	Introduction to Probability and Statistics	4
MATH 141	Business Calculus	4
List B - Select two of the following (any course not used from List A): 6-8		
BUSAD 100	Introduction to Business	3
CIT 101	Introduction to Computer Literacy	3
MATH 102	College Algebra	4
Code	Title	Units
Major Total		27-28
Total Units That May Be Double Counted		9
General Education (CSU-GE or IGETC) Units		37-39
Elective (CSU Transferable) Units		0-5
Total Units		60

CSUSB requires MATH 102 for their program. ECON 200 or ECON 200H, ECON 201 or ECON 201H, and ECON 208 or MATH 108 may be double counted for CSUGE or IGETC.

See Section on Degree, Certificate, and Transfer Information for additional information on the Associate Degrees for Transfer.

To earn an SBVC Associate Degree for Transfer (AA-T or AS-T) students must complete one of the following general education patterns:

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate understanding of accounting procedures and practices
- Evaluate the global economy and its impact on the U.S economy
- Demonstrate an understanding of and familiarity with the world of business and its related terminology
- Analyze theories, principles, and policies of the United States economic system
- Critically assess the relationship between the individual, business, and the global economy
- Apply the methods of effective business communication

- Describe the legal aspects of business operation
- Consider the ethical and social responsibility issues affecting the current business environment

Business Administration Certificate of Achievement

This certificate is designed to prepare students for entry-level work in the business field by providing the fundamentals of business organization and management as well as in marketing and business law.

Code	Title	Units
Required Courses		
ACCT 010	Bookkeeping	3-4
or ACCT 200	Financial Accounting	
BUSAD 050	Business Math	3
BUSAD 100	Introduction to Business	3
BUSAD 103	Marketing Principles	3
BUSAD 108	Personal Finance, Investments and Estate Planning	3
BUSAD 127	Business Communication	3
CIT 101	Introduction to Computer Literacy	3
COMMST 100	Elements of Public Speaking	3
or COMMST 100H	Elements of Public Speaking - Honors	
Total Units		24-25

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Understand the general nature structure, resources and operations of business organizations
- Demonstrate the ability to explain an organization's basic accounting, finance, management, marketing and legal functions
- Express business ideas and information effectively in both oral and written forms

Entrepreneurship - General Certificate of Achievement

The Entrepreneurship - General certificate provides students with an understanding of small business planning, financial management, and integrated business topics on entrepreneurship and small business management. Upon completion of this program students will be able to examine small business marketing opportunities, identify innovative small business strategies, evaluate financial management decisions, and address the challenges and opportunities specific to small business management and entrepreneurship.

Code	Title	Units
Required Courses		
BUSAD 050	Business Math	3
BUSAD 103	Marketing Principles	3

BUSAD 105	Small Business Management/Entrepreneurship	3
BUSAD 106	Principles of Selling	3
BUSAD 110	Human Resource Management	3
BUSAD 120	Business Management/Leadership	3
Total Units		18

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Design and develop a comprehensive business plan to start a small business
- Design and develop a comprehensive small business marketing plan by using appropriate marketing strategies
- Compile and prepare accurate financial information for tax compliance and informed business decisions

Entrepreneurship - Real Estate Certificate of Achievement

This certificate is designed for students who are interested in studying to become their own real estate broker, real estate manager or work in the field of property management. The certificate program provides students with an overview of the different areas of the real estate market and will help guide the student to be an independent broker/agent, to run your own real estate practice, or property management company.

Code	Title	Units
Required Courses		
BUSAD 103	Marketing Principles	3
BUSAD 105	Small Business Management/Entrepreneurship	3
BUSAD 106	Principles of Selling	3
REALST 062	Real Estate Practice	3
REALST 063	Real Estate Loan Processing Fundamentals	3
REALST 100	Real Estate Principles	3
Total Units		18

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Create and start new ventures within their selected field of real estate
- Know how to manage and grow new ventures
- Demonstrate knowledge of current information, theories and models, and techniques and practices in all of the major business disciplines including the general areas of Accounting and Finance, Information Technologies, Management, Marketing, and Quantitative Analysis

Entrepreneurship - Tax Certificate of Achievement

This certificate is designed for students who are interested in studying taxation for their own professional practice or a venture in family business as well as for those who are interested in developing tax skills, creative thinking and innovative approaches as a career builder in working for small or large corporations. The certificate program provides students with an overview of the different areas of taxation and provides them with the skills and knowledge they need to identify and resolve many tax issues.

Code	Title	Units
Required Courses		
ACCT 010	Bookkeeping	3
ACCT 030	Federal and State Individual Income Taxation	4
ACCT 047	Computerized Accounting	3
ACCT 090	Payroll Accounting	3
BUSAD 103	Marketing Principles	3
BUSAD 105	Small Business Management/Entrepreneurship	3
BUSAD 106	Principles of Selling	3
Total Units		22

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Analyze and problem solve within their tax preparation/bookkeeping venture
- Create and start new ventures associated to tax preparation.
- Manage and grow their tax preparation/bookkeeping venture
- Demonstrate knowledge of current information, theories and models, and techniques and practices in all of the major business disciplines including the general areas of Accounting and Finance, Information Technologies, Management, Marketing, and Quantitative Analysis

Leadership Certificate of Achievement

The certificate in Leadership provides students with a foundation and understanding of basic business philosophies, skills and techniques that are required to become productively employed in assisting in the management of a business enterprise. This program is designed for students who wish to prepare for a career in the administration of modern organizations. It surveys the functional operations of business organizations, giving special consideration to the management of human resources, law, ethics, marketing, accounting practices, and economics.

Code	Title	Units
Required Courses		
ACCT 200	Financial Accounting	4
BUSAD 110	Human Resource Management	3
BUSAD 120	Business Management/Leadership	3
BUSAD 127	Business Communication	3

BUSAD 151	Human Relations	3
BUSAD 210	Business Law	3
CIT 101	Introduction to Computer Literacy	3
Total Units		22

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Gain an understanding of current management/leadership practices and problems related to human behavior in organizations. They will understand the theories related to actual business practices and diagnose the organizational context and its critical importance. Analysis and discussions will encompass planning, organizing, controlling, decision making, communication, motivation, leadership, human resource development, information systems, and social responsibility
- Develop a comprehensive set of practical skills and tools to rely on through leadership practice. Such skills and tools include time management, meeting management and agenda setting, group dynamics and team building
- Communicate effectively (utilizing written and spoken word, non-verbal language, electronic tools, and listening skills) in order to develop relationships, manage conflicts, and work across differences
- Develop an understanding of change processes, and be able to think critically about obstacles to change
- Understand how ethics, morals, and values relate to their leadership dilemmas
- Develop a range of leadership skills and abilities such as effectively leading change, resolving conflict and motivating others

Retail Management Certificate of Achievement

This certificate is designed to prepare students for entry-level work in the retail management field. Beginning as a clerk or cashier, the student can advance to assistant manager, manager, and upper management. There is no required sequence of courses, but it is recommended that students structure their schedule to move through three general levels of training and experiences. In the foundational courses the students gain exposure to foundational courses in writing, speaking, math applications, and computer literacy. The intermediate course offerings cover specific business and management content. Lastly, the advanced course offerings include the retail specific courses and human relations topics.

Code	Title	Units
Foundational Courses		
BUSAD 050	Business Math	3
BUSAD 127	Business Communication	3
CIT 101	Introduction to Computer Literacy	3
Intermediate Courses		
BUSAD 103	Marketing Principles	3
BUSAD 120	Business Management/Leadership	3
Advanced Courses		

BUSAD 110	Human Resource Management	3
BUSAD 112	Principles of Retailing	3
BUSAD 151	Human Relations	3
Total Units		24

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Interpret and use oral instructions to complete assigned tasks; speak clearly and produce written documents for a diverse group of customers, coworkers and managers utilizing current business terminology
- Employ workforce readiness skills, including problem solving, organizational planning and time management
- Use an understanding of basic business principles and organizational priorities to make decisions about work being performed
- Understand the retail cycle and its implementation, which includes customer analysis, sourcing and product design, product development, merchandising and display

Chemistry

The Chemistry program is designed to meet the diverse needs of students served by the community college:

1. Students majoring in chemistry or related sciences,
2. Students majoring in one of the health sciences, and
3. Students fulfilling the general education science requirement.

Courses in the Chemistry Department are taught with a strong emphasis on the laboratory. In the advanced classes, students receive hands-on experience with a wide variety of instruments. Students planning to transfer to a four-year institution and major in chemistry or biochemistry should consult with a counselor regarding the transfer process and lower division requirements because additional courses may be required at some institutions.

Contact Information

Division: Science (PS - 148)

Division Phone Number: (909) 384-8645

Faculty Chair: Jessy Lemieux (%20jlemieux@sbccd.edu), Ph.D. and Sheri Lillard (%20slillard@sbccd.edu), Ph.D.

-
- Chemistry Associate of Science Degree (p. 111)
 - Chemistry Associate of Science Transfer Degree (p. 111)

CHEM 101 4 Units**Introductory Chemistry****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite/Corequisite:** ENGL 101 or ENGL 101H or READ 100 and MATH 102 or eligibility for MATH 151 or higher as determined by the SBVC assessment process.

This comprehensive course provides a foundation for the concepts of chemistry. Some of the areas studied include the physical and chemical properties of common elements and compounds, the metric system, measurements and conversions, atomic structure, the periodic table, chemical equations and calculations, gases, solutions, ionization, and an introduction to organic and biochemistry.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** CHEM 101**CHEM 104 4 Units****Introduction to Organic Chemistry and Biochemistry****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** CHEM 101

This course is an introduction to the bonding, naming, structure, and chemical and biomolecular properties for different classes of organic compounds and biomolecules, with a focus on their cellular, medicinal and industrial importance.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** CHEM 102**CHEM 105 5 Units****Introduction to General, Organic And Biochemistry****Lecture:** 54 contact hours**Lab:** 108 contact hours**Prerequisite/Corequisite:** ENGL 101 or ENGL 101H or READ 100 and MATH 102 or eligibility for MATH 151 or higher as determined by the SBVC assessment process.

This course provides a foundation for the concepts of general, organic, and biochemistry for students who wish to pursue allied health fields such as nursing. Some of the areas studied include the physical and chemical properties of common elements and compounds, the metric system, measurements and conversions, atomic structure, the periodic table, chemical equations and calculations, gases, solutions, electrolytes as well as an introduction to the bonding, naming, structure, and chemical and biological properties for different classes of organic compounds and biomolecules, with a focus on their cellular, medicinal and commercial importance.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** CHEM 102**CHEM 150 5 Units****General Chemistry I****Lecture:** 54 contact hours**Lab:** 108 contact hours**Prerequisite:** CHEM 101 or CHEM 105 and MATH 096 or eligibility for MATH 095 as determined by the SBVC assessment process.

General Chemistry I is an introduction to college level chemistry with an emphasis on the mole concept, thermochemistry, atomic and molecular structure, the relationships of intramolecular and intermolecular forces to chemical and physical properties, the periodic chart, organic chemistry, and solids, liquids and gases.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** CHEM 110/120S**CHEM 151 5 Units****General Chemistry II****Lecture:** 54 contact hours**Lab:** 108 contact hours**Prerequisite:** CHEM 150 and MATH 102 or SBVC assessment higher than MATH 102.

General Chemistry II is the second half of a two-part sequence in chemistry with an emphasis on thermodynamics, chemical equilibrium, chemical kinetics, nuclear and electrochemistry. This course prepares students for future courses and careers in chemistry, physics, biology, health sciences, and the earth sciences.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** CHEM 120S**CHEM 205 5 Units****Quantitative Chemical Analysis****Lecture:** 54 contact hours**Lab:** 108 contact hours**Prerequisite:** CHEM 151

This course explores the principles, calculations, and applications of volumetric, gravimetric, and instrumental analysis as well as provides practical experience in standardizing reagents and determining the composition of various mixtures pertaining to the chemical laboratory setting. It is designed for second year Chemistry and Biology majors and students pursuing professional careers.

Associate Degree Applicable**Transfers to both UC/CSU****CHEM 212 4 Units****Organic Chemistry I****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite/Corequisite:** CHEM 151

The first semester of organic chemistry examines carbon compounds including aliphatic, aromatic, and heterocyclic series, and modern theoretical concepts are studied. Students identify properties, synthesis, and reactions of functional groups. Mechanisms are examined in detail. Laboratory includes preparation, identification and the study of properties of organic compounds.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** CHEM 150/160S

CHEM 213 4 Units**Organic Chemistry II****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** CHEM 212

The second semester of organic chemistry continues the study of carbon compounds including aliphatic, aromatic and heterocyclic series, theoretical concepts, instrumentation, mechanisms, synthesis and functional groups. Laboratory includes preparation and study of properties, and extensive identification of organic compounds.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** CHEM 160S

Chemistry Associate of Science Degree

Students planning to transfer to a four-year institution and major in chemistry or biochemistry should consult with a counselor regarding the transfer process and lower division requirements because additional courses may be required at some institutions.

To graduate with a specialization in Chemistry, students must complete the following required courses plus the general breadth requirements for the Associate's Degree. The A.S. in Chemistry is designed to prepare students who wish to pursue a Bachelor's Degree from a four-year institution. At the four-year institution, students may choose to specialize in one particular aspect of chemistry, such as Environmental Chemistry, Organic Chemistry, Atmospheric Chemistry, or Physical Chemistry.

Code	Title	Units
Required Courses		
CHEM 150	General Chemistry I	5
CHEM 151	General Chemistry II	5
CHEM 212	Organic Chemistry I	4
CHEM 213	Organic Chemistry II	4
MATH 250	Single Variable Calculus I	4
MATH 251	Single Variable Calculus II	4
Total Units		26

Code	Title	Units
Recommended Courses ¹		
PHYSIC 202	Physics I	4
or PHYSIC 151	General Physics for the Life Sciences I	
PHYSIC 203	Physics II	4
or PHYSIC 152	General Physics for the Life Sciences II	
CHEM 205	Quantitative Chemical Analysis	5

¹ *These courses are typically prerequisites for third year chemistry majors. Students are encouraged to complete the recommended courses to prevent the postponement of continued coursework in this major.*

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate proficiency on chemistry topics from national American Chemical Society (ACS) exams. Achieve a score that is one-half of one standard deviation below the national average (or higher) on the General Chemistry or Organic Chemistry versions, administered in CHEM 151 and CHEM 213, respectively
- Demonstrate skill in standard laboratory techniques commonly acquired in lower division coursework

Chemistry Associate of Science Transfer Degree

The Associate in Science in Chemistry for Transfer (AS-T) is intended for students who plan to transfer and complete a Bachelor's degree in Chemistry, or a similar major at a CSU campus. It serves the diverse needs of students who wish to obtain a broad and an in-depth understanding of the field. The Chemistry Department offers comprehensive and integrative studies in each of the introductory courses of Chemistry. The AS-T in Chemistry is designed to prepare students who wish to pursue a Bachelor's Degree from a four-year institution. At the four-year institution, students may choose to specialize in one particular aspect of chemistry, such as Environmental Chemistry, Organic Chemistry, Atmospheric Chemistry, or Physical Chemistry. The objective of this degree is to delineate a successful career path for our community college students entering the Chemistry program and to provide opportunities that explore the Chemistry major.

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

To earn a Chemistry AS-T degree, students must meet the following requirements:

- completion of the following major requirements with grades of C or better;
- completion of 60 CSU transferable semester units with a grade point average of at least 2.0; and
- certified completion of the CSU General Education-Breadth (CSUGE) for STEM or Intersegmental General Education Transfer Curriculum (IGETC-CSU) for STEM which requires a minimum of 31-33 units.

It is highly recommended that students complete courses that satisfy the U.S. History, Constitution, and American Ideals requirement as part of CSUGE or IGETC before transferring to a CSU.

Students planning to transfer to a four-year institution and major in Chemistry should consult with a STEM counselor or general counselor regarding the transfer process and lower division requirements. Completion of CSU GE-Breadth for STEM or (IGETC-CSU) for STEM is required in addition to the major requirements.

Code	Title	Units
Required Courses		
CHEM 150	General Chemistry I	5
CHEM 151	General Chemistry II	5
CHEM 212	Organic Chemistry I	4
CHEM 213	Organic Chemistry II	4
PHYSIC 202	Physics I	4
PHYSIC 203	Physics II	4
MATH 250	Single Variable Calculus I	4
MATH 251	Single Variable Calculus II	4

Code	Title	Units
Major Total		34
Total Units That May Be Double Counted		7
General Education (CSU-GE for STEM or IGETC for STEM) Units ¹		31-33
Elective (CSU Transferable) Units		0-2
Total Units		60

¹ This AS-T presumes completion of IGETC for STEM or CSU-GE Breadth for STEM, allowing for completion of 6 units of non-STEM GE work after transfer.

See Section on Degree, Certificate, and Transfer Information for additional information on the Associate Degrees for Transfer.

To earn an SBVC Associate Degree for Transfer (AA-T or AS-T) students must complete one of the following general education patterns:

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate proficiency on chemistry topics from national American Chemical Society (ACS) exams. Achieve a score that is one-half of one standard deviation below the national average (or higher) on the General Chemistry or Organic Chemistry versions, administered in CHEM 151 and CHEM 213, respectively
- Demonstrate skill in standard laboratory techniques commonly acquired in lower division coursework

Child Development

The Child Development Department has both an academic and vocational orientation. The academic program leads students along a path toward an Associate of Arts degree that articulates with higher education and transfers into continued study suitable for a baccalaureate degree. Students planning to transfer to a four-year institution and major in child development or a related field should consult with a counselor regarding the transfer process and lower division requirements.

The vocational program, which interfaces with the academic program, prepares students for immediate employment. Certificates offered by the Child Development Department prepare students for work and to qualify in Child Development Permits through the California Commission on Teaching Credentialing and to work with specific age groups: Infant

and School Age. The Family Child Care Provider Certificate provides a curriculum to prepare students to establish quality family childcare centers in their homes.

General Education Courses and Electives

The Child Development Department advises scheduling an appointment with a counselor to create an education plan to include the general breadth requirements and elective units.

Contact Information

Division: Social Sciences, Human Development, and Physical Education (NH - 345)

Division Phone Number: (909) 384-8603

Faculty Chairs: Kellie Barnett (kbarnett@sbccd.edu), M.S., and Denise Knight (dknight@sbccd.edu), M.A.

-
- Child Development - Early Intervention and Inclusion Associate of Arts Degree (p. 117)
 - Child Development Associate of Arts Degree (p. 122)
 - Early Childhood Education Associate of Science Transfer Degree (p. 122)
 - Child Development - Associate Teacher Certificate of Achievement (p. 116)
 - Child Development - Early Intervention and Inclusion Certificate of Achievement (p. 117)
 - Child Development - Family Child Care Provider Certificate of Achievement (p. 118)
 - Child Development - Infant and Toddler Certificate of Achievement (p. 118)
 - Child Development - Master Teacher Certificate of Achievement (p. 118)
 - Child Development - School Age Certificate of Achievement (p. 119)
 - Child Development - Site Supervisor Certificate of Achievement (p. 120)
 - Child Development - Teacher Certificate of Achievement (p. 121)

CD 060 3 Units

Understanding School-Age Children

Lecture: 54 contact hours

Advisory: READ 015

This course is designed to prepare students to work with children ages five years through adolescence, by focusing on the development of children in this age group. This course includes the study of developmental theories and the practical implications of those theories. This course incorporates licensing regulations as required by Title 22 licensed facilities.

Associate Degree Applicable

CD 061 3 Units

Activities for School-Age Children

Lecture: 54 contact hours

Advisory: READ 015

This course is a survey of programs and activities planning for school-age children including both before-and after-school activities for groups and individuals.

Associate Degree Applicable

CD 075 3 Units**Family Child Care Practices****Lecture:** 54 contact hours**Advisory:** READ 015

This course is designed to meet the specific needs of the family child care provider. The emphasis is on learning licensing regulations, good business practices, age appropriate curriculum, healthy environments, positive guidance, and basic child development. Other topics include creating partnerships with parents, maintaining health and safety and working with children from diverse backgrounds including children with special needs and disabilities.

Associate Degree Applicable**CD 098 1-4 Units****Child Development Work Experience****WRKEX:** 300 contact hours

This course involves supervised training, in the form of on-the-job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. Students work 5-20 hours per week to earn units using the following formula: For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable**CD 100 3 Units****Introduction to Child Development****Lecture:** 54 contact hours**Advisory:** READ 015

This course is an introduction to and overview of the field of child development, designed to familiarize students with the broad aspects of the profession, philosophies, theories and principles of caring for children in a variety of settings.

Associate Degree Applicable**Transfers to CSU only****CD 101 3 Units****Parent-Child Interaction****Lecture:** 54 contact hours**Advisory:** READ 015

This course includes general concepts, goals and strategies of parenting through the life span in varying life circumstances and diverse family types. Establishing and maintaining close emotional relationships through bonding, attachment, and effective communication techniques with children at all developmental stages is emphasized. Effective guidance skills, shaping and modifying children's behavior are explored.

Associate Degree Applicable**Transfers to CSU only****CD 105 3 Units****Child Growth and Development****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This introductory course examines the major physical, psychosocial, and cognitive/language developmental milestones for children, both typical and atypical, from conception through adolescence. There is an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** CDEV 100**CD 105H 3 Units****Child Growth and Development - Honors****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This introductory course examines the major physical, psychosocial, and cognitive/language developmental milestones for children, both typical and atypical, from conception through adolescence. There is an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages. This course is intended for students in the Honors Program but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** CDEV 100**CD 108 3 Units****Early Childhood Development****Lecture:** 54 contact hours**Advisory:** READ 015

This course covers the development of children from two years to eight years old. Specifically, this course explores prominent theories related to early childhood development, typical and atypical development of children from two to eight years, contextual influences, and methods of studying the development of young children.

Associate Degree Applicable**Transfers to both UC/CSU****CD 111 3 Units****Observation and Assessment in Child Development****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite/Corequisite:** CD 105 or CD 105H**Advisory:** READ 015

This course focuses on the appropriate use of a variety of assessment and observation strategies to document child development and behavior. Child observations are conducted and analyzed.

Associate Degree Applicable**Transfers to CSU only****C-ID:** ECE 200**CD 113 3 Units****Principles and Practices of Teaching Young Children****Lecture:** 54 contact hours**Advisory:** READ 015

This course is an examination of underlying theoretical principles of developmentally appropriate practices applied to programs and environments, emphasizing the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative and intellectual development of all young children. This course includes a review of historical roots of early childhood programs and the evolution of the professional practices promoting advocacy, ethics and professional identity.

Associate Degree Applicable**Transfers to CSU only****C-ID:** ECE 120

CD 114 3 Units**Introduction to Curriculum****Lecture:** 54 contact hours**Prerequisite:** CD 105 or CD 105H**Advisory:** READ 015

This course presents an overview of knowledge and skills related to providing appropriate curriculum and environments for young children from birth to age six. Students will examine a teacher's role in supporting development and engagement for all young children. This course provides strategies for developmentally-appropriate practice based on observation and assessment across the curriculum.

Associate Degree Applicable**Transfers to CSU only****C-ID:** ECE 130**CD 115 3 Units****Health, Safety and Nutrition****Lecture:** 54 contact hours**Advisory:** READ 015

This course is an introduction to the laws, regulations, standards, policies, procedures and early childhood curriculum related to child health, safety and nutrition. The key components that ensure physical health, mental health and safety for both children and staff will be identified along with the importance of collaboration with families and health professionals. There is a focus on integrating concepts into everyday planning and program development for all children.

Associate Degree Applicable**Transfers to CSU only****C-ID:** ECE 220**CD 126 3 Units****Child, Family, and the Community****Lecture:** 54 contact hours**Advisory:** READ 015

This course examines the developing child in a societal context which focuses on the interrelationships of family, school, and community and emphasizes historical and socio-cultural factors. The processes of socialization and identity development will be highlighted.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** CDEV 110**CD 127 3 Units****Guidance of Children****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This course presents a developmental approach to the guidance and discipline of children. Effective guidance theories and methods are presented for teachers and professionals working with children, including children with special needs. Effective communication methods for early childhood educators working with children and their parents will be emphasized.

Associate Degree Applicable**Transfers to CSU only****CD 130 3 Units****Creative Music and Movement for Children****Lecture:** 54 contact hours**Advisory:** READ 015

This course explores the importance of music and movement in the development of children ages two through eight. Because children's physical and motor maturation influences all other aspects of development this course focuses on planning for motor skill progression through creative and teacher-guided movement. There is equal emphasis on developmentally appropriate musical activities and on rhythmic experiences with musical instruments and creative props.

Associate Degree Applicable**Transfers to CSU only****CD 133 3 Units****Creative Science and Math Activities for Children****Lecture:** 54 contact hours**Advisory:** READ 015

This course focuses on planning and implementing creative and developmentally appropriate science and math activities for young children. Content includes: life science, physical science, and earth science; creation of scientific environment in the classroom; scientific concepts and the science process skills (observing, comparing, measuring, classifying and predicting); the basic math concepts (classifying, ordering, seriation, patterning, number sense, simple reasoning and counting); and how to create a math environment.

Associate Degree Applicable**Transfers to CSU only****CD 134 3 Units****Language, Listening and Literature for Children****Lecture:** 54 contact hours**Advisory:** READ 015

This course emphasizes the process of language acquisition in children and techniques and experiences which promote language development and listening skills. It includes the examination of children's literature; teaching strategies for reading picture books to children; presenting poetry; flannel board activities; puppetry and storytelling in the classroom for children ages two through eight.

Associate Degree Applicable**Transfers to CSU only****CD 136 3 Units****Creative Art Experiences for Children****Lecture:** 54 contact hours**Advisory:** READ 015

This course focuses on establishing an environment for young children that cultivates and nourishes creativity and their aesthetic sense. It includes the principles of creative development; instructional strategies; materials, tools and equipment in an art program; and developmentally appropriate activities and experiences which underscore the emotional, social, physical, and cognitive needs of children from two through eight years of age.

Associate Degree Applicable**Transfers to CSU only**

CD 137 3 Units**Play and Materials for Children****Lecture:** 54 contact hours**Advisory:** READ 015

This course introduces the theories and pedagogies of play and inquiry based learning and development. A focus of the course is on how play, inquiry, pedagogy, assessment and planning are purposefully and holistically integrated across a range of learning contexts. Child centered approaches are examined with a focus on using environments and resources to plan and support learning and development.

Associate Degree Applicable**Transfers to CSU only****CD 138 3 Units****Teaching in a Diverse Society****Lecture:** 54 contact hours**Advisory:** READ 015

This course is an examination of the development of social identities in diverse societies including theoretical and practical implications affecting children, families, programs, teaching, education and schooling. Culturally relevant and linguistically appropriate anti-bias approaches supporting all children, from birth through age 8, in becoming competent members of a diverse society will be examined. This course involves self-examination and reflection of related issues in order to better inform teaching practices and program development.

Associate Degree Applicable**Transfers to CSU only****C-ID:** ECE 230**CD 185 3 Units****Infant/Toddler Growth and Development****Lecture:** 54 contact hours**Advisory:** READ 015

This course explores the physical, social-emotional, cognitive, and language development of children from birth to age three. It fulfills the California licensing requirements for infant center personnel and includes infant/toddler interactions and curriculum.

Associate Degree Applicable**Transfers to CSU only****CD 186 3 Units****Infant and Toddler Curriculum****Lecture:** 54 contact hours**Advisory:** READ 015

This course is a survey of program and curriculum planning for infants and toddlers child care and education settings, including early intervention and inclusive programs, emphasizing curriculum and principles and practices of quality care and developmentally appropriate practices specific to infants, toddlers and two-year-old children, birth to three years.

Associate Degree Applicable**Transfers to CSU only****CD 205 4 Units****Child Development Practicum / Field Experience****Lecture:** 36 contact hours**Lab:** 108 contact hours**Prerequisite:** CD 105 or CD 105H and CD 113 and CD 114 and CD 126**Advisory:** READ 015

In this supervised field work course, students practice and demonstrate developmentally appropriate early childhood planning and teaching competencies under the supervision of ECE/CD faculty and mentor teachers. Students utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning, and assessment, and knowledge of curriculum content areas are emphasized. Student teachers design, implement and evaluate experiences that promote positive development for all young children.

Associate Degree Applicable**Transfers to CSU only****C-ID:** ECE 210**CD 210 4 Units****Infant and Toddler Practicum****Lecture:** 36 contact hours**Lab:** 108 contact hours**Prerequisite:** CD 185 and CD 105 or CD 105H**Advisory:** READ 015

This supervised field experience course guides students in applying learned theory into classroom practice and promotes the development of teaching competencies with infants and toddlers at the SBVC Child Development Infant Center or with an approved mentor teacher. The emphasis is on developing appropriate individual programs for infants and toddlers, as well as professional ethics and cooperative relationships with staff, parents and children.

Associate Degree Applicable**Transfers to CSU only****CD 215 4 Units****Early Intervention and Inclusion Internship****Lecture:** 36 contact hours**Lab:** 108 contact hours**Prerequisite:** CD 105 or CD 105H**Corequisite:** CD 245|**Advisory:** READ 015

This course provides a supervised internship as an assistant in an early intervention or inclusion setting with children from birth through eight years. It explores the unique development and guidance of infants, toddlers and young children with disabilities and other special needs. Adaptation of curriculum, natural environments, identification and assessment are discussed.

Associate Degree Applicable**Transfers to CSU only**

CD 244 3 Units**Children with Special Needs****Lecture:** 54 contact hours**Prerequisite:** CD 105 or CD 105H**Advisory:** READ 015

This course introduces the physical, social, emotional and intellectual characteristics of children with disabilities and other special needs. It covers teaching strategies that are sensitive to children with special needs and their families, as well as the legal requirements of educating children with disabilities or other special needs.

Associate Degree Applicable**Transfers to CSU only****CD 245 3 Units****Early Intervention and Inclusion****Lecture:** 54 contact hours**Prerequisite:** CD 105 or CD 105H**Corequisite:** CD 215|**Advisory:** READ 015

This course focuses on theories, research and practical teaching strategies in early intervention and early childhood special education. Students learn intervention techniques and strategies to work with children with disabilities and other special needs.

Associate Degree Applicable**Transfers to CSU only****CD 270 3 Units****Adult Supervision and Mentoring in Early Care and Education****Lecture:** 54 contact hours**Prerequisite:** CD 105 or CD 105H**Advisory:** READ 015

This course presents methods and principles for supervising student teachers, volunteers, staff, and other adults in early care and education settings. The roles and development of early childhood professionals as mentors and leaders is emphasized.

Associate Degree Applicable**Transfers to CSU only****CD 271 3 Units****Administration I: Programs in Early Childhood Education****Lecture:** 54 contact hours**Prerequisite:** CD 105 or CD 105H and CD 126**Advisory:** READ 015

This course is an introduction to the administration of early childhood programs. It covers program types, budget, management, regulations, laws, development and implementation of policies and procedures. This course also examines the administrative tools, philosophies, and techniques needed to organize, open, and operate an early care and education program.

Associate Degree Applicable**Transfers to CSU only****CD 272 3 Units****Administration II: Personnel and Leadership in Early Childhood Education****Lecture:** 54 contact hours**Prerequisite:** CD 105 or CD 105H and CD 126**Advisory:** CD 271 and READ 015

This course provides effective strategies for personnel management and leadership in early care and education settings. It includes legal and ethical responsibilities, supervision techniques, professional development, and reflective practices for a diverse and inclusive early care and education program.

Associate Degree Applicable**Transfers to CSU only**

Child Development - Associate Teacher Certificate of Achievement

The Associate Teacher Certificate is designed to be the first step toward obtaining entry-level employment in the field of Early Childhood Education in a preschool or child care setting. The Associate Teacher Certificate requires 19 CD units which includes four units of practicum/ supervised experience with young children.

This Certificate meets the unit and course requirements towards the California Title 5 requirements for the Child Development Associate Teacher Permit. Applications may be obtained through the California Commission on Teacher Credentialing Office or the Child Development Training Consortium (CDTC). After students take CD 205, more days of experience are needed to meet the 50 days of experience requirement for the CD Associate Teacher Permit. Child Development Work Experience, CD 098, may be taken to help meet the 50 day requirement.

Code	Title	Units
Required Courses		
CD 105	Child Growth and Development	3
or CD 105H	Child Growth and Development - Honors	
CD 113	Principles and Practices of Teaching Young Children	3
CD 114	Introduction to Curriculum	3
CD 126	Child, Family, and the Community	3
Select One Course from the Following:		
CD 101	Parent-Child Interaction	3
CD 127	Guidance of Children	3
Required Course for Experience Working with Children		
CD 205	Child Development Practicum / Field Experience	4
Recommended Course to Meet 50 Day Requirement for the Associate Teacher Permit		
CD 098	Child Development Work Experience	1-4
Total Units		19

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Develop a personal philosophy that reflects an understanding of:
 - typical and atypical child development in all developmental domains,
 - developmentally appropriate practices in CD programs
 - ethical standards and professional behaviors when working with children and families and
 - indicators of high quality early childhood programs
- Identify the processes and activities that support developmentally appropriate play and learning for children
- Identify resources that promote supportive relationships and partnerships between programs, teachers, families and their communities

- Develop positive guidance and interaction strategies that support young children's learning and self-confidence
- Write developmentally appropriate curriculum plans

Child Development - Early Intervention and Inclusion Associate of Arts Degree

To graduate with a specialization in Child Development-Early Childhood Intervention and Inclusion, students must complete the following required courses plus the general breadth requirements for the Associate Degree (minimum 60 semester units). This degree prepares individuals to work as early childhood paraprofessionals with expertise in special education and early intervention. The Child Development courses meet the State's competencies for early childhood intervention/early childhood special education paraprofessionals.

Code	Title	Units
Required Courses		
CD 105 or CD 105H	Child Growth and Development Child Growth and Development - Honors	3
CD 111	Observation and Assessment in Child Development	3
CD 126	Child, Family, and the Community	3
CD 127	Guidance of Children	3
CD 185	Infant/Toddler Growth and Development	3
CD 186	Infant and Toddler Curriculum	3
CD 244	Children with Special Needs	3
CD 245	Early Intervention and Inclusion	3
Required Courses for Experience Working with Children (8 units)		
CD 215	Early Intervention and Inclusion Internship	4
CD 205 or CD 210	Child Development Practicum / Field Experience Infant and Toddler Practicum	4
Total Units		32

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Differentiate characteristics of typical and atypical development and understand developmental milestones in all domains
- Recognize, understand, interact with and include children with a variety of disabilities and special needs in early childhood settings
- Develop, create, and modify curriculum and individualized education plans to work with children with special needs and disabilities
- Recognize and apply laws and regulations related to working with children and families with disabilities and special needs

- Identify and assess resources for children and families with special needs and disabilities and advocate for the needs of all children and families
- Write and speak clearly to communicate with other professionals, parents and colleagues

Child Development - Early Intervention and Inclusion Certificate of Achievement

The Early Intervention and Inclusion Certificate prepares individuals to work as early childhood paraprofessionals with expertise in special education and early intervention. The program's perspective is culturally sensitive and family-focused which emphasizes the value of individual differences in young children. This certificate meets the State's competencies for early childhood intervention/early childhood special education paraprofessionals.

This Certificate meets California Title 5 requirements for the Child Development Associate Teacher Permit. Upon completion of all the courses contact the California Commission on Teacher Credentialing Office for an application.

Code	Title	Units
Required Courses		
CD 105 or CD 105H	Child Growth and Development Child Growth and Development - Honors	3
CD 111	Observation and Assessment in Child Development	3
CD 126	Child, Family, and the Community	3
CD 127	Guidance of Children	3
CD 185	Infant/Toddler Growth and Development	3
CD 186	Infant and Toddler Curriculum	3
CD 244	Children with Special Needs	3
CD 245	Early Intervention and Inclusion	3
Required Experience Working with Children		
CD 215	Early Intervention and Inclusion Internship	4
CD 205 or CD 210	Child Development Practicum / Field Experience Infant and Toddler Practicum	4
Total Units		32

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Recognize, understand, interact with and include children with a variety of disabilities and special needs in early childhood settings
- Develop, create, and modify curriculum and individualized education plans to work with children with special needs and disabilities
- Decognize and apply laws and regulations related to working with children and families with disabilities and special needs
- Find and assess resources for children and families with special needs and disabilities and advocate for the needs of all children and families

Child Development - Family Child Care Provider Certificate of Achievement

The Family Child Care Provider Certificate prepares students for working in family child care or home child care programs. The Family Child Care Certificate requires 25 CD units which includes practicum experience with children.

This Certificate meets the unit and course requirements towards the California Title 5 requirements for the Child Development Associate Teacher Permit. Applications may be obtained through the California Commission on Teacher Credentialing Office or the Child Development Training Consortium (CDTC). After students take CD 205, more days of experience are needed to meet the 50 days of experience requirement for the CD Associate Teacher Permit. Child Development Work Experience, CD 098, may be taken to help meet the 50 day requirement.

Code	Title	Units
Required Courses		
CD 075	Family Child Care Practices	3
CD 105	Child Growth and Development	3
or CD 105H	Child Growth and Development - Honors	
CD 113	Principles and Practices of Teaching Young Children	3
CD 114	Introduction to Curriculum	3
CD 115	Health, Safety and Nutrition	3
CD 126	Child, Family, and the Community	3
Select One Course from the Following:		
CD 061	Activities for School-Age Children	3
or CD 186	Infant and Toddler Curriculum	
CD 186	Infant and Toddler Curriculum	3
Practicum Experience Working with Children		
CD 205	Child Development Practicum / Field Experience	4
Recommended Course to Meet the 50 Day Requirement for the Associate Teacher Permit		
CD 098	Child Development Work Experience	1-4
Total Units		25

Code	Title	Units
Recommended Course		
BUSAD 105	Small Business Management/Entrepreneurship	3

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Recognize licensing regulations, requirements, policies and procedures necessary to run a quality family child care business
- Develop a comprehensive business plan, record keeping system, and contract and policy statements necessary to a family child care business

- Develop a developmentally appropriate, safe and healthy environment and curriculum with activities for children at a variety of ages and stages in a family child care home
- Develop methods to strengthen partnerships with families and obtain community resources for family and children in family child care homes

Child Development - Infant and Toddler Certificate of Achievement

The Infant/Toddler Certificate is designed to be the first step toward obtaining entry-level employment specializing in infant/toddler care. Students will be prepared to work with infants/toddlers (0-36 months) enabling the student to assist a teacher in a public infant/toddler program or teach infants/toddlers in a private child care setting. The Infant/Toddler Certificate requires 25 CD units, which includes four units of CD Practicum/Field Work experience with infants/toddlers.

Code	Title	Units
Required Courses		
CD 105	Child Growth and Development	3
or CD 105H	Child Growth and Development - Honors	
CD 111	Observation and Assessment in Child Development	3
CD 126	Child, Family, and the Community	3
CD 127	Guidance of Children	3
CD 185	Infant/Toddler Growth and Development	3
CD 186	Infant and Toddler Curriculum	3
CD 244	Children with Special Needs	3
Experience Working with Children from Ages Birth-24 Months		
CD 205	Child Development Practicum / Field Experience	4
or CD 210	Infant and Toddler Practicum	
Total Units		25

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Identify and assess patterns of typical and atypical development for infants and toddlers
- Observe and assess components of infant and toddler environments and compare with high quality components, health and safety & licensing regulations, foundations and guidelines
- Observe and assess development of infants and toddlers and plan and create individual curriculum to meet the unique needs of each child
- Develop strategies to form partnerships with parents and identify local resources for families of infants and toddlers
- Create a developmentally appropriate philosophy for working with infants and toddlers in groups based on best practices and current research

Child Development - Master Teacher Certificate of Achievement

The Master Teacher Certificate is designed to prepare students to supervise, mentor and assist other teachers and aides in a preschool or child care and education setting. The Master Teacher Certificate requires 37 CD units which includes six specialization units and 4 units of CD Practicum/ Field Work experience with children preschool-12 years of age plus a minimum of 16 general education units. General Education units need to come from each of the following categories and meet Valley College GE requirements: English, Social and Behavioral Sciences, Humanities and Math or Science.

This Certificate meets the course and unit requirement for the Master Teacher Permit through the California Commission on Teacher Credentialing. Please note that students must also meet the experience requirement of 350 days of 3+ hours per day within 4 years.

Code	Title	Units
Required Courses		
CD 105 or CD 105H	Child Growth and Development Child Growth and Development - Honors	3
CD 111	Observation and Assessment in Child Development	3
CD 113	Principles and Practices of Teaching Young Children	3
CD 114	Introduction to Curriculum	3
CD 115	Health, Safety and Nutrition	3
CD 126	Child, Family, and the Community	3
CD 127	Guidance of Children	3
CD 138	Teaching in a Diverse Society	3
CD 270	Adult Supervision and Mentoring in Early Care and Education	3
Required Child Development Specialization Courses- Select 6 units from one specialization below:		6
Creative Curriculum Specialization:		
CD 130	Creative Music and Movement for Children	3
CD 133	Creative Science and Math Activities for Children	3
CD 134	Language, Listening and Literature for Children	3
CD 136	Creative Art Experiences for Children	3
CD 137	Play and Materials for Children	3
Guidance Specialization:		
CD 101	Parent-Child Interaction	3
CD 127	Guidance of Children	3
Infant/Toddler Specialization:		
CD 185	Infant/Toddler Growth and Development	3
CD 186	Infant and Toddler Curriculum	3
School-Age Specialization:		
CD 060	Understanding School-Age Children	3
CD 061	Activities for School-Age Children	3
Special Needs Specialization:		
CD 244	Children with Special Needs	6
CD 245	Early Intervention and Inclusion	3
Experience Working with Children: Select One		
CD 205	Child Development Practicum / Field Experience	4
CD 210	Infant and Toddler Practicum	4

General Education Requirements: Select one to two courses from each of the general education categories below to meet the requirements for the Master Teacher Permit (16 units minimum)

Arts and Humanities: (3-5 units)		
ASL 109	American Sign Language I	4
ART 103	Art Appreciation	3
MUS 100	Music Appreciation	3
SPAN 101	College Spanish I	5
or SPAN 101H College Spanish I - Honors		
English Language Communication: (4 units)		
ENGL 101	Freshman Composition	4
or ENGL 101H Freshman Composition-Honors		
Natural Science or Mathematics: (4-5 units)		
BIOL 100	General Biology	4
MATH 095	Intermediate Algebra	4-5
or MATH 096 Elementary and Intermediate Algebra		
MATH 108	Introduction to Probability and Statistics	4
or PSYCH 105 Statistics for the Behavioral Sciences		
Social and Behavioral Sciences: (3 units)		
PSYCH 100	General Psychology	3
or PSYCH 100H General Psychology - Honors		
SOC 100	Introduction to Sociology	3
or SOC 100H Introduction to Sociology - Honors		
SOC 130	Family Sociology	3
Select One General Education Elective Course: (2-3 units)		
Total Units		53-57

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Develop and integrate a personal philosophy into classroom practices that reflects an understanding of typical child development, health safety and nutrition, developmentally, culturally and linguistically appropriate practices, ethical and professional practices and high quality standards
- Use the observation, planning and implementation cycle to create, implement and evaluate environments, individualized curriculum and activities that support developmentally, culturally and linguistically appropriate, inclusive, play and learning for children
- Develop strategies to respect the diversity of children and families and then empower families, and use resources that promote supportive relationships and partnerships between programs, teachers, families and their communities
- Apply effective positive guidance and interaction strategies that support young children's learning, self-confidence and identity
- Develop a specialization in Child Development using 6 units of a content area in a specific area
- Develop an understanding of adult development and learning including adult developmental stages and learning styles

Child Development - School Age Certificate of Achievement

The School-Age Certificate is designed to be the first step toward entry level employment specializing in the care of children from 6-12 years. It prepares students for working in before and after-school programs or child care facilities that serve older children.

This Certificate meets the course and unit requirements for the Child Development Associate Teacher Permit with a School-Age Emphasis and the Child Development Associate Teacher Permit through the California Commission on Teacher Credentialing. Applications can be obtained through the California Commission on Teacher Credentialing Office. More days of experience are needed to meet the 50 days of experience requirement for the CD Associate Teacher Permit. Child Development Work Experience, CD 098, may be taken to help meet the 50 day requirement.

Code	Title	Units
Required Courses		
CD 060	Understanding School-Age Children	3
CD 061	Activities for School-Age Children	3
CD 105 or CD 105H	Child Growth and Development Child Growth and Development - Honors	3
CD 113	Principles and Practices of Teaching Young Children	3
CD 114	Introduction to Curriculum	3
CD 126	Child, Family, and the Community	3
CD 127	Guidance of Children	3
CD 138	Teaching in a Diverse Society	3
Experience Observing and Interacting with Children Age 6-12 Years		
CD 111	Observation and Assessment in Child Development	3
Recommended Course to Meet the 50 Day Requirement for the Associate Teacher Permit		
CD 098	Child Development Work Experience	1-4
Total Units		27

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Observe and assess the development of school-age children to understand typical and atypical development and learning and to create appropriate environments and curriculum
- Create developmentally appropriate curriculum and written activity plans for school-age children using all developmental domains, multiple intelligences, and a variety of learning modalities
- Develop a school-age before and after school program philosophy based good practice, health and safety, state regulations, and the developmental needs of school age children

Child Development - Site Supervisor Certificate of Achievement

The Site Supervisor Certificate is designed to prepare students with the knowledge and skills necessary to be qualified as a preschool or child care center site supervisor.

Students completing a Site Supervisor Certificate meet the academic requirements for the CD Site Supervisor Permit. Please note that the field experience requirement for the Site Supervisor Permit requires 350 days of 3+ hours per day within four years including at least 100 days of supervising adults. With this Certificate, and CD Permit, students qualify to be Child Development Center Directors in private Title 22 Programs as long as they also have two years of teaching experience in a licensed center.

Code	Title	Units
Required Courses		
CD 105 or CD 105H	Child Growth and Development Child Growth and Development - Honors	3
CD 111	Observation and Assessment in Child Development	3
CD 113	Principles and Practices of Teaching Young Children	3
CD 114	Introduction to Curriculum	3
CD 115	Health, Safety and Nutrition	3
CD 126	Child, Family, and the Community	3
CD 138	Teaching in a Diverse Society	3
CD 270	Adult Supervision and Mentoring in Early Care and Education	3
CD 271	Administration I: Programs in Early Childhood Education	3
CD 272	Administration II: Personnel and Leadership in Early Childhood Education	3
Select two of the following:		6
CD 130	Creative Music and Movement for Children	3
CD 133	Creative Science and Math Activities for Children	3
CD 134	Language, Listening and Literature for Children	3
CD 136	Creative Art Experiences for Children	3
Select one of the following:		3
CD 060	Understanding School-Age Children	3
CD 061	Activities for School-Age Children	3
CD 100	Introduction to Child Development	3
CD 127	Guidance of Children	3
CD 185	Infant/Toddler Growth and Development	3
CD 186	Infant and Toddler Curriculum	3
CD 244	Children with Special Needs	3
Experience Working with Children: Select One		
CD 205	Child Development Practicum / Field Experience	4
CD 210	Infant and Toddler Practicum	4
General Education Requirements: Select one to two courses from each of the general education categories below to meet the requirements for the Site Supervisor Permit (16 units minimum)		
Arts and Humanities: (3-5 units)		
ASL 109	American Sign Language I	4
ART 103	Art Appreciation	3
MUS 100	Music Appreciation	3
SPAN 101	College Spanish I	5
or SPAN 101H	College Spanish I - Honors	
English Language Communication: (4 units)		
ENGL 101	Freshman Composition	4
or ENGL 101H	Freshman Composition-Honors	
Natural Science or Mathematics: (4-5 units)		

BIOL 100	General Biology	4
MATH 095	Intermediate Algebra	4-5
or MATH 096	Elementary and Intermediate Algebra	
MATH 108	Introduction to Probability and Statistics	4
or PSYCH 105	Statistics for the Behavioral Sciences	
Social and Behavioral Sciences: (3 units)		
PSYCH 100	General Psychology	3
or PSYCH 100H	General Psychology - Honors	
SOC 100	Introduction to Sociology	3
or SOC 100H	Introduction to Sociology - Honors	
SOC 130	Family Sociology	3
Select one General Education Elective Course (2-3 units)		
Total Units		59-63

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Develop and integrate a personal philosophy into classroom practices that reflects an understanding of typical child development, health, safety and nutrition, developmentally, culturally and linguistically appropriate practices and high quality standards
- Use the observation, planning and implementation cycle to create, implement and evaluate environments, individualized curriculum and activities that support developmentally, culturally and linguistically appropriate, inclusive, play and learning for children
- Develop strategies to respect the diversity of children and families and then empower families, and use resources that promote supportive relationships and partnerships between programs, teachers, families and their communities
- Apply effective positive guidance and interaction strategies that support young children's learning, self-confidence and identity
- Develop an understanding of adult development and learning including adult developmental stages and learning styles
- Apply administration skills related to various types of early care and education programs

Child Development - Teacher Certificate of Achievement

The Teacher Certificate is designed for individuals working with children in a preschool or child care setting. The certificate focuses on developing age-appropriate curriculum for the classroom and observation/assessment of children. The Teacher Certificate requires 31 CD units which includes 4 units of CD Practicum/ Field Work with young children plus 16 general education units as specified.

This Certificate meets the course and unit requirement for the Teacher Permit through the California Commission on Teacher Credentialing. Please note that students must also meet the experience requirements of 175 days of 3+ hours per day within 4 years.

Code	Title	Units
Required Courses		
CD 105	Child Growth and Development	3
or CD 105H	Child Growth and Development - Honors	
CD 111	Observation and Assessment in Child Development	3
CD 113	Principles and Practices of Teaching Young Children	3
CD 114	Introduction to Curriculum	3
CD 115	Health, Safety and Nutrition	3
CD 126	Child, Family, and the Community	3
CD 138	Teaching in a Diverse Society	3
Select two Curriculum Courses:		
CD 130	Creative Music and Movement for Children	3
CD 133	Creative Science and Math Activities for Children	3
CD 134	Language, Listening and Literature for Children	3
CD 136	Creative Art Experiences for Children	3
CD 137	Play and Materials for Children	3
Required CD Practicum/Field Work Experience with Children		
CD 205	Child Development Practicum / Field Experience	4
Recommended Courses		
CD 185	Infant/Toddler Growth and Development	3
CD 244	Children with Special Needs	3
General Education Requirements: Select one to two courses from each of the general education categories below to meet the requirements for the Teacher Permit (16 units minimum)		
Arts and Humanities: (3-5 units)		
ASL 109	American Sign Language I	4
ART 103	Art Appreciation	3
MUS 100	Music Appreciation	3
SPAN 101	College Spanish I	5
or SPAN 101H	College Spanish I - Honors	
English Language Communication: (4 units)		
ENGL 101	Freshman Composition	4
or ENGL 101H	Freshman Composition-Honors	
Natural Science or Mathematics: (4-5 units)		
BIOL 100	General Biology	4
MATH 095	Intermediate Algebra	4-5
or MATH 096	Elementary and Intermediate Algebra	
MATH 108	Introduction to Probability and Statistics	4
or PSYCH 105	Statistics for the Behavioral Sciences	
Social and Behavioral Sciences: (3 units)		
ANTHRO 102	Cultural Anthropology	3
or ANTHRO 102H	Cultural Anthropology - Honors	
PSYCH 100	General Psychology	3
or PSYCH 100H	General Psychology - Honors	
SOC 100	Introduction to Sociology	3
or SOC 100H	Introduction to Sociology - Honors	
SOC 130	Family Sociology	3
Select One General Education Elective Course: (2-3 units)		
Total Units		47-51

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Develop and integrate a personal philosophy into classroom practices that reflects an understanding of typical and atypical child development, healthy, safe and nutritious practices, developmentally, culturally and linguistically appropriate practices and ethical standards and professional behaviors when working with children and families
- Use observation, planning and implementation cycle to create, implement and evaluate environments, individualized curriculum and activities that support developmentally, culturally and linguistically appropriate, inclusive, play and learning for children
- Develop strategies to respect the diversity of children and families and then empower families, and use resources that promote supportive relationships and partnerships between programs, teachers, families and their communities
- Apply effective positive guidance and interaction strategies that support young children's learning, self-confidence and identity
- Write comprehensive developmentally appropriate curriculum plans in a variety of curriculum areas

Child Development Associate of Arts Degree

This degree contains the core eight courses needed for transfer and the necessary course work to be a qualified early childhood educator. To graduate with a specialization in Child Development, students must complete the following required courses plus the general breadth requirements for the Associate Degree (minimum 60 semester units).

Students completing the degree will qualify for the unit and course requirements necessary to apply for the California State Child Development Teacher Permit.

Code	Title	Units
Required Courses		
CD 105 or CD 105H	Child Growth and Development Child Growth and Development - Honors	3
CD 111	Observation and Assessment in Child Development	3
CD 113	Principles and Practices of Teaching Young Children	3
CD 114	Introduction to Curriculum	3
CD 115	Health, Safety and Nutrition	3
CD 126	Child, Family, and the Community	3
CD 138	Teaching in a Diverse Society	3
Select one of the following:		3
CD 100	Introduction to Child Development	3
CD 108	Early Childhood Development	3
CD 127	Guidance of Children	3
CD 130	Creative Music and Movement for Children	3
CD 133	Creative Science and Math Activities for Children	3
CD 134	Language, Listening and Literature for Children	3

CD 136	Creative Art Experiences for Children	3
CD 185	Infant/Toddler Growth and Development	3
CD 186	Infant and Toddler Curriculum	3
CD 244	Children with Special Needs	3
Required Course for Supervised Field Experience with Children		
CD 205	Child Development Practicum / Field Experience	4
Total Units		28

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Integrate a personal philosophy into classroom practices that reflects an understanding of:
 - typical and atypical child development in all developmental domains,
 - healthy, safe and nutritious practices in CD programs,
 - developmentally, culturally and linguistically appropriate practices in CD programs
 - ethical standards and professional behaviors when working with children and families and
 - indicators of high quality early childhood programs
- Use observation, planning and implementation cycle to create, implement and evaluate environments, individualized curriculum and activities that support developmentally, culturally and linguistically appropriate, inclusive, play and learning for children
- Demonstrate strategies to respect the diversity of children and families and then empower families, and use resources that promote supportive relationships and partnerships between programs, teachers, families and their communities
- Apply effective positive guidance and interaction strategies that support young children's learning, self-confidence and identity

Early Childhood Education Associate of Science Transfer Degree

The Associate in Science in Early Childhood Education for Transfer is designed to provide the lower division major courses to transfer to a California State University and earn a Bachelor's degree in Child Development, Human Development or Early Childhood Education. This program focuses on the theories and developmentally appropriate inclusive practices for educating children from birth to age eight. Study in the major includes coverage of child development and socialization, observation and assessment, curriculum development, culturally and linguistically appropriate teaching, as well as excellent health, safety, and nutrition practices in early care and education. This degree prepares students for teaching in early care and education settings as well as transfer.

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

To earn this Early Childhood Education AS-T degree, students must meet the following requirements:

- completion of the following major requirements with grades of C or better;
- Completion of a minimum of 60 CSU transferrable semester units with a grade point average of at least 2.0; and
- certified completion of the CSU General Education-Breadth (CSUGE) or Intersegmental General Education Transfer Curriculum (IGETC) for CSU, which requires a minimum of 37-39 units.

It is highly recommended that students complete courses that satisfy the U.S. History, Constitution, and American Ideals requirement as part of CSUGE or IGETC before transferring to a CSU.

Students planning on transferring to a four-year institution and major in Early Childhood Education should consult with a counselor regarding the transfer process and lower division requirements.

Code	Title	Units
Required Courses		
CD 105 or CD 105H	Child Growth and Development ¹ Child Growth and Development - Honors	3
CD 111	Observation and Assessment in Child Development	3
CD 113	Principles and Practices of Teaching Young Children	3
CD 114	Introduction to Curriculum	3
CD 115	Health, Safety and Nutrition	3
CD 126	Child, Family, and the Community	3
CD 138	Teaching in a Diverse Society	3
CD 205	Child Development Practicum / Field Experience	4
Code	Title	Units
Major Total		25
Total Units That May Be Double Counted		6
General Education (CSU-GE or IGETC) Units		37-39
Elective (CSU Transferable) Units		2-4
Total Units		60

See Section on Degree, Certificate, and Transfer Information for additional information on the Associate Degrees for Transfer.

To earn an SBVC Associate Degree for Transfer (AA-T or AS-T) students must complete one of the following general education patterns:

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Integrate understanding of the needs, the characteristics and multiple influences on development of children birth to age eight as related to high quality care and education of young children
- Design, implement and evaluate environments and activities that support positive, developmental play and learning outcomes for all young children
- Apply effective guidance and interaction strategies that support all children's social learning, identity and self-confidence
- Develop strategies that promote partnerships between programs, teachers, families and their communities
- Apply ethical standards and professional behaviors that demonstrate understanding and knowledge, deepening the commitment to the Early Care and Education profession

Chinese

Contact Information

Division: Arts and Humanities

Division Phone Number: (909) 384-8633

Faculty Chairs: Davena Burns-Peters (dburns@sbccd.edu), B.E. and Nori Sogomonian (nsogomon@sbccd.edu), Ed.D.

CHIN 101 5 Units

College Mandarin Chinese I

Lecture: 90 contact hours

In this course students develop four major linguistic skills: listening comprehension, speaking, reading and writing in Mandarin Chinese at the beginning level. The course includes the study of essentials of pronunciation, vocabulary and grammatical patterns along with an introduction to the Chinese culture and the geography of the Chinese speaking world.

Associate Degree Applicable

Transfers to both UC/CSU

CHIN 102 5 Units

College Mandarin Chinese II

Lecture: 90 contact hours

Prerequisite: CHIN 101

In this course students develop four major linguistic skills: listening comprehension, speaking, reading and writing in Mandarin Chinese at the beginning level. The course includes the study of essentials of pronunciation, vocabulary and grammatical patterns along with an introduction to the Chinese culture and the geography of the Chinese speaking world.

Associate Degree Applicable

Transfers to both UC/CSU

Communication Studies

Courses offered by the Department of Communication Studies are designed to foster practical communication skills. The emphasis is the development of the skills and techniques essential for effective public and interpersonal communication - a prerequisite for both occupational and personal success. Students planning to transfer to a four-year institution and major in Communication Studies should consult with a counselor regarding the transfer process and lower division requirements.

Contact Information

Division: Arts and Humanities

Division Phone Number: (909) 384-8633

Faculty Chair: Susan Mattson (%20smattson@sbccd.edu), M.A.

- Communication Studies Associate of Arts Transfer Degree (p. 125)

COMMST 100 3 Units

Elements of Public Speaking

Lecture: 54 contact hours

Advisory: READ 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course focuses on training in the application of the concepts, principles, and skills of effective public speaking. Concepts such as structure, adapting messages to culturally diverse audiences, research principles, and critical evaluation of evidence and arguments are explored. Delivery, listening, and feedback skills are also discussed and practiced in a variety of presentations.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: COMM 110

COMMST 100H 3 Units

Elements of Public Speaking - Honors

Lecture: 54 contact hours

Advisory: READ 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course focuses on training in the application of the concepts, principles, and skills of effective public speaking. Concepts such as structure, adapting messages to culturally diverse audiences, research principles, and critical evaluation of evidence and arguments are explored. Delivery, listening, and feedback skills are also discussed and practiced in a variety of presentations. This course is intended for students in the Honors Program, but is open to all students who desire more challenging course work.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: COMM 110

COMMST 111 3 Units

Interpersonal Communication

Lecture: 54 contact hours

Advisory: READ 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

Interpersonal communication examines the dynamics of the communication process within the context of interpersonal relationships (those with friends, families, romantic partners, and co-workers). Influences of self-concept, perception, listening, verbal and non-verbal communication, and emotional expression are explored. Principles of relationship development, communication climate, self-disclosure, and conflict management are also discussed. Rhetorical principles are also practiced, and faculty supervised/evaluated in a variety of ways.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: COMM 130

COMMST 125 3 Units

Critical Thinking Through Argumentation and Debate

Lecture: 54 contact hours

Advisory: COMMST 100 or COMMST 100H and READ 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process. This course is designed to provide an oral approach to critical thinking skills which includes individual and group debates. It also provides instruction in language, argument structure, types of reasoning, evaluation of evidence, fallacies in reasoning, and case development strategies.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: COMM 120

COMMST 135 3 Units

Mass Media and Society

Lecture: 54 contact hours

Advisory: READ 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course explores the history, effects, and role of the mass media in the U.S. The major forms of mass communication are studied (television, radio, film, newspapers and magazines). There is also a focus on critical analysis of media messages, effects of media on individual and society, and theories of communication. Students move beyond being consumers of media to analysts of media.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: JOUR 100

COMMST 140 3 Units

Small Group Communication

Lecture: 54 contact hours

Advisory: READ 015 or eligibility for ENGL 101 or 101H as determined by the SBVC assessment process.

This course explores discussion principles, communication skills, conflict management, participation practices, and leadership within small groups in a variety of contexts. Group formation, verbal and non-verbal communication, listening, and decision-making procedures are also examined. Emphasis is on group participation, group discussion, and group projects/presentations.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: COMM 140

COMMST 174 3 Units

Intercultural Communication

Lecture: 54 contact hours

Advisory: READ 015 or eligibility for ENGL 101 or ENGL 101H as determined through the SBVC assessment process.

This course focuses on the communication behaviors and values common to all cultures and ethnic groups and on the differences that insulate and divide people. Students will examine influences on the communication process, including aspects such as stereotyping, perception, prejudice, values and expectations. Students will learn to overcome the communication problems that can result when members of other cultures communicate by evaluating their own intercultural communication patterns and learning skills to increase their effectiveness. Students will also acquire a greater appreciation for others.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: COMM 150

COMMST 176 3 Units**Gender Differences in Communication****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for ENGL 101 or ENGL 101H as determined through the SBVC assessment process.

This course explores the gender differences evident in communication. Students will examine the theories concerning gender differences, issues of gender in a variety of contexts (families, relationships, the workplace, the media, school), and the differences in the communication patterns resulting from gender.

Associate Degree Applicable**Transfers to both UC/CSU**

Communication Studies Associate of Arts Transfer Degree

The Associate in Arts for Transfer (AA-T) in Communication Studies encourages student to examine and evaluate human communication across and within various contexts for the purpose of increasing communication competence.

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

To earn a Communication Studies AA-T degree, students must meet the following requirements:

- completion of the following major requirements with grades of C or better;
- completion of a minimum of 60 CSU transferable semester units with a grade point average of at least 2.0; and
- certified completion of the CSU General Education-Breadth (CSU GE) or Intersegmental General Education Transfer Curriculum (IGETC) for CSU, which requires a minimum of 37-39 units.

It is highly recommended that students complete courses that satisfy the U.S. History, Constitution, and American Ideals requirement as part of CSUGE or IGETC before transferring to a CSU. Students planning to transfer to a four-year institution and major in Communication Studies should consult with a counselor regarding the transfer process and lower division requirements.

Code	Title	Units
Required Core Course		
COMMST 100	Elements of Public Speaking	3
	or COMMST 10 Elements of Public Speaking - Honors	
List A - Select two of the following:		6
COMMST 111	Interpersonal Communication	3
COMMST 125	Critical Thinking Through Argumentation and Debate	3
COMMST 140	Small Group Communication	3
List B - Select two of the following (or any course not used from List A):		6-7
COMMST 135	Mass Media and Society	3
COMMST 174	Intercultural Communication	3
ENGL 102	Intermediate Composition and Critical Thinking	4

or ENGL 102H Intermediate Composition and Critical Thinking - Honors

List C - Select one of the following or any course not used from List A or B:

COMMST 176	Gender Differences in Communication	3
ENGL 151	Freshman Composition and Literature	3
PSYCH 100	General Psychology	3
	or PSYCH 100H General Psychology - Honors	
SOC 100	Introduction to Sociology	3
	or SOC 100H Introduction to Sociology - Honors	

Code	Title	Units
Major Total		18-19
General Education (CSU-GE or IGETC) Units		37-39
Elective (CSU Transferable) Units		16-18
Total Units		60

See Section on Degree, Certificate, and Transfer Information for additional information on the Associate Degrees for Transfer.

To earn an SBVC Associate Degree for Transfer (AA-T or AS-T) students must complete one of the following general education patterns:

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate their understanding of various forms of human communication evaluated by written or oral assessments
- Assess situations and identify the appropriate communication skills to utilize according to the context they are in, which will be evaluated by written or objective assessments

Computer Information Technology

The Computer Information Technology (CIT) Department provides a program of study for students who are preparing for employment in Information Technology or are preparing to transfer to a 4-year institution in Information Technology/Information Systems. The CIT Department offers a complete introduction to computers and software, specific training in selected software packages, and advanced courses dealing with networks, specialized programming techniques, and management of Information Technology.

Contact Information

Division: Mathematics, Business, and Computer Technology (B - 127)

Division Phone Number: (909) 384-8520

Faculty Chair: Reginald Metu (rmetu@sbccd.edu), Ed.D.

- CIT - Management Information Systems Associate of Science Degree (p. 131)
- CIT - Office Technology Associate of Arts Degree (p. 132)

- Information Systems and Technology Associate of Science Degree (p. 134)
- Administrative Assistant Certificate of Achievement (p. 130)
- Android Application Security Support Specialist Certificate of Achievement (p. 131)
- Cisco Certified Network Associate Certificate of Career Preparation (p. 131)
- CIT - Management Information Systems Certificate of Achievement (p. 132)
- Computer Network Support Specialist Certificate of Achievement (p. 133)
- Computer Support Specialist Certificate of Achievement (p. 133)
- Digital Forensics Certificate of Achievement (p. 134)
- Information Security and Cyber Defense Certificate of Achievement (p. 134)
- iOS Application Security Support Specialist Certificate of Achievement (p. 135)
- Medical Coding and Billing Certificate of Achievement (p. 135)
- Office Technology Fundamentals Certificate of Completion (p. 135)
- Web Application Security Support Specialist Certificate of Achievement (p. 136)

CIT 010 3 Units**Beginning Keyboarding and Word Processing****Lecture:** 36 contact hours**Lab:** 54 contact hours

This course covers the fundamentals of keyboarding including operation of a standard keyboard by touch. It includes instruction and practice in formatting a variety of personal and business documents, such as letters, reports, and tables. The use of speed and accuracy drills designed to develop a keyboarding speed of 30 words per minute for five minutes will be utilized. This is a combined Part I and Part II course students can complete in one semester.

Associate Degree Applicable**CIT 013 3 Units****Intermediate Keyboarding****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** CIT 010

This course provides instruction in touch control of the computer keyboard, and is designed to develop a keyboarding speed of 45 net words per minute for five minutes. In addition, students receive instruction in the preparation of basic business documents using word processing software.

Associate Degree Applicable**CIT 021 4 Units****Word Processing: Comprehensive Microsoft Word****Lecture:** 72 contact hours**Advisory:** CIT 010 or CIT 100

This course focuses on the production of professional quality documents using Microsoft Word comprehensive features: creating office documents, set up tabs and margins, set text in columns or tables, apply graphic elements, perform mail merge, sorting, numbering, bullets, symbols, prepare multiple page documents, using headers and footers, quick parts, themes and styles, references, forms, table of content, indexing, macros, and preparing students for Microsoft Certified Application Specialist exam.

Associate Degree Applicable**CIT 026 3 Units****Computer Graphics****Lecture:** 54 contact hours**Advisory:** CIT 101

This course is an introduction to graphic design using graphic software to create professional-looking documents.

Associate Degree Applicable**CIT 031 3 Units****Business English****Lecture:** 54 contact hours

This course is a review of basic grammar, punctuation, capitalization, vocabulary, and spelling. Emphasis is placed on grammar and vocabulary building for effective business communications.

Associate Degree Applicable**CIT 045 3 Units****Medical Insurance Billing and Coding****Lecture:** 54 contact hours**Prerequisite:** CIT 010 and CIT 144

This course covers ICD/CPT coding, insurance terminology, computerized billing, claims management, and the Health Insurance Portability and Accountability Act (HIPAA).

Associate Degree Applicable**CIT 048 3 Units****Medical Office Procedures****Lecture:** 54 contact hours**Prerequisite:** CIT 010 and CIT 144

The course covers law and ethics, data entry, appointment scheduling, and billing procedures using computer software to provide real life medical office scenarios.

Associate Degree Applicable**CIT 050 3 Units****Medical Records and Health Information****Lecture:** 54 contact hours**Prerequisite:** CIT 010 and CIT 144

This course prepares students for entry-level positions in medical records. Topics covered include the unique aspects of file management including transfer, release, storage, retrieval, and destruction of records and files. Information includes the latest computer technologies, electronic medical records and electronic health records to access, manage and share protected health information. An introduction to electronic billing, coding, medical ethics, confidentiality, and the laws that govern privacy are also a part of this course.

Associate Degree Applicable**CIT 051 3 Units****Introduction to Electronic Health Records****Lecture:** 54 contact hours**Prerequisite:** CIT 048

This course introduces the health information technology (HIT) utilized in electronic health records (EHR) systems and fiscal management. Students will obtain hands-on experience through integrated practice management software to obtain a comprehensive picture of health information technology. There is an emphasis on quality assurance, legal, and ethical practices of documenting the clinical and administrative tasks that take place for a total patient encounter.

Associate Degree Applicable

CIT 088 3 Units**Introduction to Android Security****Lecture:** 36 contact hours**Lab:** 54 contact hours

This is an introductory course in Android security. The course covers why it is critical to build security into Android apps in all phases of the system design lifecycle. The course will also cover improved programming processes to promote safety, as well as how to provide countermeasures for the numerous threats to which Android application and its users are exposed using software and hardware tools available in the industry.

Associate Degree Applicable**CIT 089 3 Units****Introduction to iOS Application Security****Lecture:** 36 contact hours**Lab:** 54 contact hours

This course focuses on the iOS (Internet Operating System) platform and application security. This course is for beginners interested in understanding the iOS Security. How to analyze applications on this platform using a variety of cutting-edge tools and techniques will be covered.

Associate Degree Applicable**CIT 090 3 Units****Introduction to Web Security****Lecture:** 36 contact hours**Lab:** 54 contact hours

This introductory course in web security targets students and other computer professionals who have some networking and administrative skills in Windows-based networks. Students will become familiar with other operating systems, such as OS X, Unix, or Linux. This course will help participants who want to further a career in Information Technology by acquiring an elementary knowledge of security topics. The course further helps students as they prepare for the CompTIA Security+ Certification examination.

Associate Degree Applicable**CIT 091 3 Units****Computer Network Fundamentals (Cisco Networking Academy)****Lecture:** 36 contact hours**Lab:** 54 contact hours

This course is the first course in the Cisco Academy Program sequence and introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP (Internet Protocol) addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for further study of computer networks. It uses the OSI (Open Systems Interconnection) and TCP (Transmission Control Protocol) layered models to examine the nature and roles of protocols and services at the application, network, data link, and physical layers.

Associate Degree Applicable**CIT 092 3 Units****Basic Switching and Routing (Cisco Networking Academy)****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** CIT 091

This course is the second course in four-course sequence-preparing students to take the Cisco Certified Network Associate certification examination and prepares students to take the Cisco Certified Entry Networking Technician certification exam. This course teaches comprehensive networking concepts and skills from network applications to the protocols and services provided to those applications by the lower layers of the network.

Associate Degree Applicable**CIT 093 3 Units****Advanced Routing and Switching Cisco (Cisco Networking Academy)****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** CIT 092

This course provides students with classroom and laboratory experience in configuring, managing, and troubleshooting routers and switches in large and complex IPv4 and IPv6 networks. In depth experience configuring, managing, and troubleshooting complex protocols such as OSPF, EIGRP, STP, and VTP.

Associate Degree Applicable**CIT 094 3 Units****Wide Area Network Technologies and Network Services (Cisco Networking Academy)****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** CIT 093

This is the fourth and final course in the Cisco Certified Network Associate (CCNA) sequence focuses on Wide Area Network (WAN) technologies. The network services required by converged applications in a complex network including the selection criteria for network devices and WAN technologies to meet user requirements. Includes datalink troubleshooting, IPSec and VPN operations as well as preparation strategies for the CCNA examination.

Associate Degree Applicable**CIT 098 1-4 Units****Computer Information Technology Work Experience****WRKEX:** 300 contact hours

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable**CIT 099 3 Units****Cisco Certified Network Associate Security****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** CIT 091 and CIT 092

This course prepares students for entry-level security specialist careers by developing in-depth understanding of network security principles and the tools and device configurations necessary to create and maintain a secure network. The course includes hands-on activities with networking equipment.

Associate Degree Applicable

CIT 100 3 Units**Introduction to Personal Computers****Lecture:** 54 contact hours

A survey course for the use of software tools such as word processing, spreadsheets, graphics, presentation and database using Microsoft Office.

Associate Degree Applicable**Transfers to CSU only****CIT 101 3 Units****Introduction to Computer Literacy****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** CIT 010 or CIT 031

This course is an introduction to fundamental Information Technology / Information Systems concepts and Information Security. The course includes practical exercises with spreadsheet, database, and Internet applications.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** BUS 140/ITIS120**CIT 102 3 Units****Advanced Computer Literacy****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** CIT 101

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course covers the complex fundamentals of hardware computer concepts and software applications. It provides the skills needed to create advanced word processing documents, spreadsheets, databases, and presentations.

Associate Degree Applicable**Transfers to CSU only****CIT 110 4 Units****Information and Communications Technology Essentials****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course provides an introduction to the computer hardware and software skills needed to help meet the growing demand for entry-level ICT professionals. The fundamentals of computer hardware and software as well as advanced concepts such as security, networking, and the responsibilities of an ICT professional will be introduced. Preparation for CompTIA's A+ certification exam.

Associate Degree Applicable**Transfers to CSU only****C-ID:** ITIS 110**CIT 114 3 Units****Spreadsheets: Excel****Lecture:** 54 contact hours**Advisory:** CIT 100 or CIT 101

Production of workbooks using EXCEL, which integrates spreadsheet analysis, information management, and graphics. Includes the design and the use of worksheets; how to enter labels, numbers, formulas, and create graphs; how to format worksheets professionally; how to use Excel functions in different applications and understand the concept of data management in Excel; how to use the concept of what-if-analysis; how to consolidate data in a 3-D workbook and establish File Linking; and how to integrate Excel with the Web.

Associate Degree Applicable**Transfers to CSU only****CIT 116 3 Units****Database Management: Access****Lecture:** 54 contact hours**Advisory:** CIT 100 or CIT 101

This is a comprehensive course in the development and maintenance of a database. It provides a working knowledge of designing a database that includes: setting field properties, storing, retrieving, printing, and indexing records, creating informational and technical queries, developing customized forms and reports, establishing different types of relationships, integrating Access with the Web, and creating a database switchboard. The course emphasis is on developing a practical ability to use a database in a Windows environment with full graphical user interface functionality.

Associate Degree Applicable**Transfers to CSU only****CIT 118 3 Units****Microsoft PowerPoint****Lecture:** 54 contact hours**Advisory:** CIT 105

This course provides an introduction to a presentation graphics program for those who plan to make effective and compelling presentations. Instructions include developing and customizing presentations by using charts, clip art, pictures, presentation templates, WordArt, and information and graphics from Word, Excel, and Access.

Associate Degree Applicable**Transfers to CSU only****CIT 120 2 Units****Internet****Lecture:** 18 contact hours**Lab:** 54 contact hours**Advisory:** CIT 105

This course provides the basics of the Internet using current technology browser software. The course includes the effective use of web search portals, online collaboration software, and implications of security, privacy and ethical usage.

Associate Degree Applicable**Transfers to CSU only****CIT 127 3 Units****Introduction to Computer Forensics****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** CIT 160

This course will introduce basic tools, techniques, and procedures for collecting, capturing, and preserving digital evidence that can be admitted and used in computer forensics processes. Topics include securing and analyzing a computer system and network system, evaluating suspect data and files, and composing reports based on investigative findings.

Associate Degree Applicable**Transfers to CSU only****CIT 128 3 Units****Introduction to Linux OS****Lecture:** 36 contact hours**Lab:** 54 contact hours

This is an introductory course to the LINUX Operating System and basic Linux Operating System environment and commands. This course will cover file system navigation, Graphic User Interfaces (GUI) such as GNOME and KDE, file permissions, the Linux text editors, command shells, and basic network commands. This course is mapped to LINUX LPI Level 1 guidelines.

Associate Degree Applicable**Transfers to CSU only**

CIT 140 3 Units**Introduction to Systems Analysis and Design****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ENGL 015 and BUSAD 100 and CIT 101 and MATH 095 and CS 110 or CS 120

The course presents a systematic methodology for analyzing a business problem or opportunity, determining what role, if any, computer-based technologies can play in addressing the business need, articulating business requirements for the technology solution, specifying alternative approaches to acquiring the technology capabilities needed to address the business requirements, and specifying the requirements for the information systems solution in particular, in-house development, development from third-party providers, or purchased commercial-off-the-shelf packages.

Associate Degree Applicable**Transfers to both UC/CSU****CIT 144 3 Units****Medical Terminology****Lecture:** 54 contact hours**Advisory:** READ 015

The course includes the origin, usage, spelling, pronunciation, and meaning of terminology used to describe the structures of the human body, as well as therapeutic and diagnostic procedures. It is a course for students who are interested in pursuing health occupations such as medical office occupations, nursing, radiological technology, and respiratory care.

Associate Degree Applicable**Transfers to CSU only****CIT 155 3 Units****Systems and Network Administration****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** CIT 110

This course will provide a student with the knowledge and skills required to build, maintain, troubleshoot and support server hardware and software technologies. The student will be able to identify environmental issues; understand and comply with disaster recovery and physical / software security procedures; become familiar with industry terminology and concepts; understand server roles / specializations and interaction within the overall computing environment.

Associate Degree Applicable**Transfers to CSU only****C-ID:** ITIS 155**CIT 160 3 Units****Introduction to Information Systems Security****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** CIT 232

An introduction to the fundamental principles and topics of Information Technology Security and Risk Management at the organizational level. It addresses hardware, software, processes, communications, applications, and policies and procedures with respect to organizational Cybersecurity and Risk Management.

Associate Degree Applicable**Transfers to CSU only****CIT 215 3 Units****Database Management Systems****Lecture:** 54 contact hours**Prerequisite:** CIT 116

This course focuses on the concepts of relational databases including database management systems, database design fundamentals and Structured Query Language (SQL).

Associate Degree Applicable**Transfers to CSU only****CIT 222 1-3 Units****Independent Study in Computer Information Technology****DIR:** 54 contact hours

Assigned projects involving research and analysis of selected topics or directed study for students who are interested in furthering their knowledge of information technology on an independent study basis. For each unit earned, students are required to devote three hours per week throughout the semester. Enrollment limited to those who meet independent study criteria. Prior to registration, a contract must be prepared. See instructor for details.

Associate Degree Applicable**Transfers to CSU only****CIT 232 3 Units****Computer Network Fundamentals****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** CIT 101

This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP (Internet Protocol) addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for further study of computer networks. It uses the OSI (Open Systems Interconnection) and TCP (Transmission Control Protocol) layered models to examine the nature and roles of protocols and services at the application, network, data link, and physical layers. It provides preparation for the CompTIA Network+ certification exam.

Associate Degree Applicable**Transfers to CSU only****C-ID:** ITIS 150**CIT 601 Noncredit****Introduction to Basic Computer Skills****Lecture:** 8 contact hours**Lab:** 16 contact hours

This course provides basic computer skills. Topics include basic knowledge of computer hardware, computer software, computer terminology, working with Windows, using the Internet, and creating basic business documents using Microsoft Word. This course is recommended for individuals who have little or no computer skills as well as those who wish to seek an entry-level position as an office clerk.

CIT 602 Noncredit**Microsoft Word Fundamentals****Lecture:** 8 contact hours**Lab:** 16 contact hours

This course provides a basic working knowledge of Microsoft Word for office workers. Topics include basic document, paragraph, and document formatting, working with clip art, lists, columns and tables. This course is recommended for individuals who wish to seek an entry-level position as an office clerk.

CIT 603 Noncredit**Microsoft Excel Fundamentals****Lecture:** 8 contact hours**Lab:** 16 contact hours

This course provides a basic working knowledge of Microsoft Excel for office workers. Topics include creating and editing worksheets, formatting worksheets, printing worksheets, using simple tables and graphs, basic formulas and fundamental Excel functions. This course is recommended for individuals who wish to seek an entry-level position as an office clerk.

CIT 604 Noncredit**Microsoft Powerpoint Fundamentals****Lecture:** 8 contact hours**Lab:** 16 contact hours

This course provides a basic working knowledge of Microsoft PowerPoint for office workers. Topics include creating presentations, managing PowerPoint slides, slide text and graphics, and displaying a presentation. This course is recommended for individuals who wish to seek an entry-level position as an office clerk.

CIT 605 Noncredit**Microsoft Outlook Fundamentals****Lecture:** 8 contact hours**Lab:** 16 contact hours

This course provides a basic working knowledge of Microsoft Outlook for office workers. Topics include Outlook contacts, Outlook email, and Outlook calendar. This course is recommended for individuals who wish to seek an entry-level position as an office clerk.

CIT 606 Noncredit**Computer Proficiency Lab****Lab:** 18 contact hours

This noncredit course provides students who need extra help or extra lab time to develop proficiency with computer technology with an on-campus resource.

CIT 621 Noncredit**CompTIA A+ Certificate Preparation: Hardware****Lecture:** 72 contact hours

This noncredit course is designed for individuals who have basic computer skills and who are interested in obtaining a job as an entry-level IT technician and require certification. It is an accelerated course that prepares students for the Hardware portion of the CompTIA A+ exam.

CIT 622 Noncredit**CompTIA A+ Certificate Preparation: Networking****Lecture:** 36 contact hours

This noncredit course is designed for individuals who have basic computer skills and who are interested in obtaining a job as an entry-level IT technician and require certification. It is an accelerated course that allows students to prepare for the Networking portion of the CompTIA A+ Hardware exam.

CIT 623 Noncredit**CompTIA A+ Certificate Preparation: Mobile Devices****Lecture:** 36 contact hours

This noncredit course is designed for individuals who have basic computer skills and who are interested in obtaining a job as an entry-level IT technician and require certification. It is an accelerated course that prepares for the Mobile Devices portion of the CompTIA A+ exam.

CIT 624 Noncredit**CompTIA A+ Certification Preparation: Troubleshooting****Lecture:** 36 contact hours

This noncredit course is designed for individuals who have basic computer skills and who are interested in obtaining a job as an entry-level IT technician and require certification. It is an accelerated course that prepares for the Troubleshooting portion of the CompTIA A+ exam.

CIT 625 Noncredit**CompTIA A+ Certification Preparation: Windows Operating Systems****Lecture:** 36 contact hours

This noncredit course is designed for individuals who have basic computer skills and who are interested in obtaining a job as an entry-level IT technician and require certification. It is an accelerated course that prepares students for the Windows Operating System portion of the CompTIA A+ exam.

CIT 626 Noncredit**CompTIA A+ Certification Preparation: Other Operating Systems****Lecture:** 36 contact hours

This noncredit course is designed for individuals who have basic computer skills and who are interested in obtaining a job as an entry-level IT technician and require certification. It is an accelerated course that prepares students for the Other Operating Systems portion of the CompTIA A+ exam.

CIT 627 Noncredit**CompTIA A+ Certification Preparation: Security****Lecture:** 36 contact hours

This noncredit course is designed for individuals who have basic computer skills and who are interested in obtaining a job as an entry-level IT technician and require certification. It is an accelerated course that prepares students for the Security portion of the CompTIA A+ exam.

CIT 628 Noncredit**CompTIA A+ Certification Preparation: Software Troubleshooting****Lecture:** 36 contact hours

This noncredit course is designed for individuals who have basic computer skills and who are interested in obtaining a job as an entry-level IT technician and require certification. It is an accelerated course that prepares students for the Security portion of the CompTIA A+ exam.

CIT 629 Noncredit**CompTIA A+ Certification Preparation: Operational Procedures****Lecture:** 36 contact hours

This noncredit course is designed for individuals who have basic computer skills and who are interested in obtaining a job as an entry-level IT technician and require certification. It is an accelerated course that prepares students for the Operational Procedures of the CompTIA A+ exam.

Administrative Assistant Certificate of Achievement

The Administrative Assistant Certificate is designed to prepare students for employment in today's modern office. Students will learn computer skills in Microsoft Office Applications and writing skills that are needed for successful business communication. Student will learn computer skills through hands-on practice and various business project simulations.

Code	Title	Units
Required Courses		
CIT 013	Intermediate Keyboarding	3
CIT 021	Word Processing: Comprehensive Microsoft Word	4
CIT 031	Business English	3

CIT 100 or CIT 101	Introduction to Personal Computers Introduction to Computer Literacy	3
CIT 114	Spreadsheets: Excel	3
CIT 116	Database Management: Access	3
CIT 118	Microsoft PowerPoint	3
Total Units		22

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Type 60 words per minute
- Use PC-based database management system

Android Application Security Support Specialist Certificate of Achievement

This certificate provides a comprehensive overview of Android Application Security. Students will understand Android devices and how to secure them. Upon completion of this certificate, students will be prepared for entry-level work in Information Technology.

Code	Title	Units
Required Courses		
CIT 088	Introduction to Android Security	3
CIT 101	Introduction to Computer Literacy	3
CIT 110 or CIT 128	Information and Communications Technology Essentials Introduction to Linux OS	3-4
CIT 160	Introduction to Information Systems Security	3
CIT 232 or CIT 091	Computer Network Fundamentals Computer Network Fundamentals (Cisco Networking Academy)	3
CS 076	Android App Development	3
Total Units		18-19

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Gain entry-level job skills using Android devices and securing such devices.

Cisco Certified Network Associate Certificate of Career Preparation

This certificate is designed to prepare students to take the Cisco Certified Network Associate certification examination. This course of study prepares students for entry-level employment in the computer-networking field. The certificate is part of the Cisco Networking Academy program and all

instruction is provided by Cisco Certified Academy Instructors using Cisco certified curriculum.

Code	Title	Units
Required Courses		
CIT 091	Computer Network Fundamentals (Cisco Networking Academy)	3
CIT 092	Basic Switching and Routing (Cisco Networking Academy)	3
CIT 093	Advanced Routing and Switching Cisco (Cisco Networking Academy)	3
CIT 094	Wide Area Network Technologies and Network Services (Cisco Networking Academy)	3
Total Units		12

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

Program Learning Outcomes

At the completion of this program, students will be able to:

- Design a small office/home office (SOHO) network with Internet Protocol version 4
- Attach networking components to a Lan & WAN network using standard cables and connectors
- Configure routers to operate in a SOHO environment including proper password policies and basic security
- Configure SOHO local area network (LAN) network equipment including support for virtual LANs (VLANs)
- Configure SOHO equipment for connection to a wide area network (WAN)

CIT - Management Information Systems Associate of Science Degree

The Management Information Systems Associates of Science degree prepares students to work with Computerized Information Systems that involve substantial use of databases and servers. Students with this degree are prepared for employment related to computer systems, networks, databases, or information security. To graduate with a specialization in CIT Management Information Systems, students must complete all requirements for this degree plus the general breadth requirements. (minimum total = 60 units)

Code	Title	Units
Required Courses		
BUSAD 127	Business Communication	3
CIT 101	Introduction to Computer Literacy	3
CIT 102	Advanced Computer Literacy	3
CIT 114	Spreadsheets: Excel	3
CIT 116	Database Management: Access	3
CIT 160	Introduction to Information Systems Security	3
CIT 215	Database Management Systems	3
CIT 232	Computer Network Fundamentals	3
Total Units		24

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Use the Internet to find business and information technology (IT) information necessary to solve a business need, discerning authoritative from non-authoritative information sources and the bias of the information source
- Understand basic Personal Computer (PC) system hardware and software architecture and their capabilities
- Analyze a business IT need, identify different components required to solve the problem, and create a solution that uses an appropriate combination of commercial software applications
- Transfer to a feeder 4-year university and complete a bachelor's degree in MIS
- Compete and gain entry level position in field of management information systems

CIT - Management Information Systems Certificate of Achievement

The Management Information Systems Certificate offers a complete introduction to computers, specific training in selected software packages, advanced courses dealing with programming, Databases, and networks.

Code	Title	Units
Required Courses		
CIT 031	Business English	3
CIT 101	Introduction to Computer Literacy	3
CIT 114	Spreadsheets: Excel	3
CIT 116	Database Management: Access	3
CIT 215	Database Management Systems	3
CIT 232	Computer Network Fundamentals	3
CS 120	Introduction to Visual Basic.NET	4
Select one of the following:		
CIT 021	Word Processing: Comprehensive Microsoft Word	4
CIT 026	Computer Graphics	3
CIT 102	Advanced Computer Literacy	3
Total Units		25-26

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Use the Internet to find business and information technology (IT) information necessary to solve a business need, discerning authoritative from non-authoritative information sources and the bias of the information source
- Have a basic understanding of Personal Computer (PC) system hardware and software architecture
- Operate the PC operating system and common office applications such as a spreadsheet and database management system
- Analyze a business IT need, identify different components required to solve the problem, and create a solution that uses an appropriate combination of commercial software applications
- Recognize computer and network security threats and common approaches to preventing security compromises
- Given the structure of a relational database and a business report needed based on the database us structured query language (SQL) to retrieve the records required by the report
- Recommend computer network solutions to a business problem
- Prepare written reports and memos

CIT - Office Technology Associate of Arts Degree

To graduate with a degree in Office Technology, students must complete the following required courses plus the general breadth requirements for the Associate Degree (total = 60 units). This degree is designed to prepare students for entry-level positions such as general clerk, information clerk, receptionist, and administrative secretary.

Code	Title	Units
Required Courses		
CIT 013	Intermediate Keyboarding	3
CIT 021	Word Processing: Comprehensive Microsoft Word	4
CIT 100 or CIT 101	Introduction to Personal Computers Introduction to Computer Literacy	3
CIT 102	Advanced Computer Literacy	3
CIT 114	Spreadsheets: Excel	3
CIT 116	Database Management: Access	3
CIT 118	Microsoft PowerPoint	3
Total Units		22

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Operate the PC operating system and common office applications such as a spreadsheet and database management system

- Understand the hardware and software architecture of a contemporary Personal Computer system
- Type at 60 words per minutes
- Recognize computer and network security threats and common approaches to preventing security compromises
- Follow procedures and guidelines for efficient and effective business office operations
- Create a resume and employment application letter
- Prepare written reports and memos

Computer Network Support Specialist Certificate of Achievement

This course of study prepares students for entry-level employment in the computer-networking field. The courses also prepare students to take multiple industry-recognized certifications from Cisco Systems, including the CCENT, CCNA, and CCNA Security. Students will also be prepared to take the A+ certification examination from CompTIA and the MTA examination from Microsoft. Most of the courses in this Certificate are part of the Cisco Networking Academy Program.

Code	Title	Units
Required Courses		
CIT 101	Introduction to Computer Literacy	3
CIT 110	Information and Communications Technology Essentials	4
CIT 091	Computer Network Fundamentals (Cisco Networking Academy)	3
CIT 092	Basic Switching and Routing (Cisco Networking Academy)	3
CIT 093	Advanced Routing and Switching Cisco (Cisco Networking Academy)	3
CIT 094	Wide Area Network Technologies and Network Services (Cisco Networking Academy)	3
CIT 099	Cisco Certified Network Associate Security	3
Total Units		22

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Attainment of Industry recognized certification(s) such as Cisco Certified Entry Network Technician (CCENT) Cisco Certified Network Associate (CCNA) Cisco Certified Network Associate - Security (CCNA-Security)
- Participate in a student networking competition such as Cisco NetRiders
- Complete a computer networking internship experience
- Obtain employment part-time or full-time in a computer networking related field

Computer Support Specialist Certificate of Achievement

The Computer Specialist Certificate is designed to provide students with skills in advanced computer technology pertaining to a wide variety of industry specific and government agency career paths. Students are required to have a basic knowledge of reading and writing as well as have completed Math 095 or assessed at a higher level.

Career Outlook: The rapid spread of computers and information technology has generated a need for highly trained workers proficient in various job functions. These jobs are categorized under the heading of Computer Specialist in the EDD Labor Market Information Occupational Projection Report. The Computer Specialist designation constitutes 97 percent of the Computer and Mathematical Occupations category. There are many career paths available mainly because employers' needs are so varied.

Code	Title	Units
Required Courses		
CIT 091	Computer Network Fundamentals (Cisco Networking Academy)	3
CIT 092	Basic Switching and Routing (Cisco Networking Academy)	3
CIT 101	Introduction to Computer Literacy	3
CIT 110	Information and Communications Technology Essentials	4
CIT 160	Introduction to Information Systems Security	3
CIT 155	Systems and Network Administration	3
	or CIT 128 Introduction to Linux OS	
Total Units		19

(MATH 095 is required unless student is assessed at a higher level.)

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate an understanding of computer hardware and software concepts and identify the appropriate hardware and software to adequately address an identified need
- Demonstrate competency with Internet searching technology and apply Computer Information Technology analysis concepts by writing an analytical comparison of the various solutions discussing relative merits in terms of effectiveness of solution, ease of implementation, and security implications
- Given a scenario that identifies ethical judgment options with regard to the application of computing technology, the student will write a short paper explaining which option they find the most ethical
- Demonstrate mastery of a standard computerized office suite of applications by developing a computerized solution to the problem that uses different applications within the suite that best solve the various areas of the problem and utilizing automation capabilities of the suite integrate these into an integrated solution
- Demonstrate proficiency with Structured Query Language by creating a query to retrieve the required information
- Demonstrate basic understanding of computer network technology by identifying the various components and describing their basic function within the context of the network

Digital Forensics Certificate of Achievement

This certificate consists of 18 units that will prepare students with the knowledge required for analyzing, investigating, and writing reports pertaining to basic digital forensics. This certificate will help to prepare students for entry-level work in the digital forensics field.

Code	Title	Units
Required Courses		
CIT 091	Computer Network Fundamentals (Cisco Networking Academy)	3
CIT 101	Introduction to Computer Literacy	3
CIT 127	Introduction to Computer Forensics	3
CIT 128	Introduction to Linux OS	3
CIT 155	Systems and Network Administration	3
CIT 160	Introduction to Information Systems Security	3
Total Units		18

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate an understanding of basic computer forensic concepts; utilizes proper investigative procedures relative to the individual, corporate, and criminal rights, responsibilities, and law; formulates and executes an investigative plan
- Utilize basic methods and techniques of forensic investigation; use forensic software to secure and analyze various digital media at a basic level; evaluate and effectively implement various forensic utilities and software; access, document and evaluate hidden data files
- Use basic investigative techniques for various operating systems; Creates and presents legal reports and analysis of forensic investigation results, as well as be able to compete for an entry-level position in the field of Digital Forensics

Information Security and Cyber Defense Certificate of Achievement

A comprehensive introduction to the principles of Information Assurance, Information Systems Security, and Cyber Defense. Program content and outcomes are aligned with industry certifications and the recommendations of the National Security Administration/US Department of Homeland Security. Includes practical experiences with the application of Information Assurance principles to Systems and Network Administration.

Code	Title	Units
Required Courses		
CIT 101	Introduction to Computer Literacy	3
CIT 110	Information and Communications Technology Essentials	4
CIT 155	Systems and Network Administration	3
CIT 160	Introduction to Information Systems Security	3

CIT 232	Computer Network Fundamentals	3
Select One Computer Programming Course		
CS 120 or CIT 215	Introduction to Visual Basic.NET Database Management Systems	3-4
Select One Statistics Course		
ECON 208 or MATH 108	Business and Economic Statistics Introduction to Probability and Statistics	4
Total Units		23-24

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Attain Industry recognized certification(s) such as EC Council Certified Ethical Hacker, Cisco Certified Network Associate - Security, or CompTIA Security+
- Participate in a Student Cyber Security Competition such as Collegiate Cyber Defense Competition, or National Cyber League
- Complete a Cyber Security related internship experience
- Obtain employment part-time or full-time in a Cyber Security related field

Information Systems and Technology Associate of Science Degree

To graduate with a specialization in Information Systems and Technology students must complete the following required courses plus the general breadth requirements for the Associate Degree (minimum 60 semester units). The A.S. Degree in Information Systems and Technology is designed to prepare students who wish to pursue a bachelor's degree from a four-year institution.

Code	Title	Units
Required Courses		
ECON 208 or MATH 108	Business and Economic Statistics Introduction to Probability and Statistics	4
BUSAD 210	Business Law	3
CIT 101	Introduction to Computer Literacy	3
CIT 116	Database Management: Access	3
CIT 140	Introduction to Systems Analysis and Design	3
CIT 160	Introduction to Information Systems Security	3
CIT 215	Database Management Systems	3
CIT 232	Computer Network Fundamentals	3
CS 120	Introduction to Visual Basic.NET	4
MATH 102 or MATH 151	College Algebra Precalculus	4
Total Units		33

Code	Title	Units
Recommended Courses		
CS 215	Programming with Java	4
CS 077	Introduction to C-Sharp	4

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcome

At the completion of this program, students will be able to:

- Demonstrate level of preparation appropriate for a program that is designed to serve as a transfer course to CSU San Bernardino (CSUSB) by being accepted as a transfer student at CSU San Bernardino with a major in Information Systems and Technology major at CSUSB.

iOS Application Security Support Specialist Certificate of Achievement

This is a comprehensive introduction to iOS Application Security. The certificate provides students with the knowledge required to understand Inter-network Operating System (iOS). Graduating students from this program will be prepared for entry level work in Information Technology.

Code	Title	Units
Required Courses		
CIT 101	Introduction to Computer Literacy	3
CIT 110	Information and Communications Technology Essentials	3-4
or CIT 128	Introduction to Linux OS	
CIT 160	Introduction to Information Systems Security	3
CIT 232	Computer Network Fundamentals	3
or CIT 091	Computer Network Fundamentals (Cisco Networking Academy)	
CIT 089	Introduction to iOS Application Security	3
CS 074	iOS App Development	3
Total Units		18-19

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcome

At the completion of this program, students will be able to:

- Gain an understanding of Inter-network Operating System (iOS) and how to protect them from hacks

Medical Coding and Billing Certificate of Achievement

This course of study prepares students for entry-level employment in the medical coding and billing field. The courses are geared towards the students' successful passing of the American Academy of Professional Coders National Certification Exam—Certified Professional Coder (CPC). During the course of study, students learn the basics of health care finance, office computer skills, anatomy and physiology, medical terminology, computerized health record, and other recommended elective courses needed to succeed in the field.

Code	Title	Units
Required Courses		
BIOL 155	Introductory Anatomy and Physiology	4
CIT 010	Beginning Keyboarding and Word Processing	3
CIT 045	Medical Insurance Billing and Coding	3
CIT 048	Medical Office Procedures	3
CIT 051	Introduction to Electronic Health Records	3
CIT 100	Introduction to Personal Computers	3
CIT 144	Medical Terminology	3
Total Units		22

Code	Title	Units
Recommended Course		
CIT 031	Business English	3

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate mastery of course work by ensuring the codes are applied correctly during the medical billing process, which includes abstracting the information from documentation, assigning the appropriate codes, and creating a claim to be paid by insurance carriers
- Obtain employment as a Medical Coder/Biller or in an occupation where the application of knowledge and skills learned within this program are integral to routine duties of the occupation
- Demonstrate competency with Coding Software Program by applying Coding and Billing Guidelines

Office Technology Fundamentals Certificate of Completion

This noncredit certificate prepares individuals with limited computer experience to meet the IT challenges faced in the contemporary business office. Individuals who complete this certificate will have the technical skills to work as an entry-level clerk in a business office or begin a credit certificate program at a community college.

Code	Title	Units
Required Courses		
BUSAD 601	Finding and Landing a Job	24
BUSAD 602	Working in a Business Office	36

CIT 601	Introduction to Basic Computer Skills	24
CIT 602	Microsoft Word Fundamentals	24
CIT 605	Microsoft Outlook Fundamentals	24
CIT 606	Computer Proficiency Lab	12
CIT 603 or CIT 604	Microsoft Excel Fundamentals Microsoft Powerpoint Fundamentals	24
Total Hours		168

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate mastery of course work by presenting a digital portfolio with representative work output from each of the courses in the program
- Successfully complete one term as a credit student at an institution of higher education
- Obtain employment as an office worker or in an occupation where the application of knowledge and skills learned within this program are integral to routine duties of the occupation

Web Application Security Support Specialist Certificate of Achievement

This certificate will provide students with the knowledge required to understand web security, how to protect web resources and password administration management online. Upon completion of this certificate, students will be prepared for entry level work in Information Technology.

Code	Title	Units
Required Courses		
CIT 101	Introduction to Computer Literacy	3
CIT 110	Information and Communications Technology Essentials	3-4
or CIT 128	Introduction to Linux OS	
CIT 160	Introduction to Information Systems Security	3
CIT 232	Computer Network Fundamentals	3
or CIT 091	Computer Network Fundamentals (Cisco Networking Academy)	
CIT 090	Introduction to Web Security	3
CS 075	Introduction to Web Development	3
Total Units		18-19

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Acquire the knowledge to gain entry-level position in web security, protection of web resources and password administration management online

Computer Science

Courses offered by the Computer Science Department are interactive, featuring hands-on experience with contemporary computer hardware and

software. The courses cover a range of computing topics with an emphasis on software development and fundamental computer science concepts. The Computer Science curriculum may culminate in either an Associate of Science degree or a certificate. The degree program prepares students to transfer to a four-year institution with a major in computer science or a related discipline. Students planning to transfer to a four-year institution and major in computer science should consult with a counselor regarding the transfer process and lower division requirements.

Contact Information

Division: Mathematics, Business, and Computer Technology (B - 127)

Division Phone Number: (909) 384-8520

Faculty Chair: Reginald Metu (rmetu@sbccd.edu), Ed.D.

-
- Computer Science Associate of Science Degree (p. 138)
 - Computer Science Associate of Science Transfer Degree (p. 138)
 - Computer Science Certificate of Achievement (p. 139)

CS 074 3 Units

iOS App Development

Lecture: 18 contact hours

Lab: 108 contact hours

This course will cover the fundamentals of iPhone application development using the Objective-C, Swift, and the iPhone SDK (Software Development Kit). The theory and use of using and managing Xcode, 3D Game Development, Storyboard Builder, Audio /Animation /Data /Location, User Interface (UI) development, game and app design will be covered. Students will gain valuable experience using front end and back end development tools to complete production ready iPhone applications.

Associate Degree Applicable

CS 075 3 Units

Introduction to Web Development

Lecture: 18 contact hours

Lab: 108 contact hours

This course focuses on web development and addresses the essentials for skilled web developers who can create digital media, web, and mobile applications for modern desktop and portable devices. Students in this program are offered an in-depth, project-driven curriculum that provides a comprehensive study of HTML, CSS, JavaScript, Web Animation, Multimedia Creation. Students will learn to develop visually aesthetic, user friendly, and interactive web-based applications. Students will also gain valuable experience using front end and backend development tools like Adobe Dreamweaver, Adobe Animate, and Visual Studio. Students will also be exposed to the programming languages that cross over from web development to mobile phone development. The synergy between the many web and mobile technologies will help each student build a foundation suitable for professional content.

Associate Degree Applicable

CS 076 3 Units

Android App Development

Lecture: 18 contact hours

Lab: 108 contact hours

This course will cover Android Developer Fundamentals and basic Android programming concepts and build a variety of apps, starting with Hello World and working their way up to apps for business solutions and game development. Creating assets for applications and utilities is also covered.

Associate Degree Applicable

CS 077 4 Units**Introduction to C-Sharp****Lecture:** 54 contact hours**Lab:** 54 contact hours**Advisory:** MATH 095 or MATH 096

This course is an introduction to C# (C Sharp) app development. C# is a sophisticated and type-safe object-oriented language that empowers developers to build a variety of secure and robust applications that run on the .NET Framework. Topics will include fundamental object-oriented programming concepts like loops, arrays, logic, debugging, database, using the C# languages in a game development environment, files, and game development.

Associate Degree Applicable**CS 098 1-4 Units****Computer Science Work Experience****WRKEX:** 300 contact hours

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable**CS 110 3 Units****Fundamentals of Computer Science****Lecture:** 36 contact hours**Lab:** 54 contact hours

Prerequisite: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process and MATH 102.

Corequisite: MATH 102

This course is an overview of the computer science discipline investigating the design and use of the computer devices, the art and science of problem solving and programming, the representation of data, human-computer interactions and ethical considerations, and information security principles. Also included is hands-on experience with command line and GUI operating systems; application of HTML, CSS, and scripts to web pages; and computer programming with an object-oriented language such as C++, Java, or C#.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** COMP 122**CS 120 4 Units****Introduction to Visual Basic.NET****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** MATH 952

This is an introduction to the Visual Basic.NET programming language. Topics include problem solving, graphical user interface, program design, software tools, structured logic, object-oriented programming, graphics and animation, procedures, arrays, files, and programming projects.

Associate Degree Applicable**Transfers to both UC/CSU****CS 130 3 Units****Discrete Structures****Lecture:** 54 contact hours**Prerequisite:** CS 110 and MATH 102

This course surveys discrete structures used in computer science with an emphasis on applications. Topics covered include: functions, relations, and sets; basic logic; proof techniques; basics of counting; graphs and trees; and discrete probability.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** COMP 152**CS 170 4 Units****Assembly Language****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** CS 110

This course focuses on the organization and behavior of computer systems at the assembly-language level. The mapping of high-level language statements and constructs to machine-level instructions and internal representation of common data types and simple structures is studied including the methods of numerical computation with assembly language constructs emphasizing common pitfalls associated with data representation and procedural errors encountered during the creation of machine language routines. This course includes hands on experience creating assembly language programs.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** COMP 142**CS 190 4 Units****Programming in C++****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** CS 110 and ENGL 101 or ENGL 101H

This course is an examination of intermediate object-oriented programming concepts and their application using the C++ language. Topics include event-driven programming; human-computer interactions; analysis of iterative and recursive solution complexity for searching/sorting algorithms; intermediate data structures; and programming constructs; object-oriented design and modeling; integration of database access into programming solutions; impact of computer science on selected societal issues; and software assurance.

Associate Degree Applicable**Transfers to both UC/CSU****CS 215 4 Units****Programming with Java****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** CS 110

An introduction to Java. Topics include object-oriented design, multiple platform environment, program logic structures, graphical user interface, Java Applet, and recursion.

Associate Degree Applicable**Transfers to both UC/CSU**

CS 220 4 Units**Advanced Visual Basic.Net Programming****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** CS 120

This course covers advanced programming using Visual Basic .NET with an emphasis on software development and maintenance. Topics include object-oriented design, multiple class modules, interface and linking, windows and Internet controls, and database access.

Associate Degree Applicable**Transfers to both UC/CSU****CS 222 1-3 Units****Special Problems in Computer Science I****DIR:** 54 contact hours**Prerequisite:** CS 110

Assigned problems involving computer laboratory work for selected students who are interested in furthering their knowledge of computer science on an independent study basis. Students are required to devote three contact hours per week to their project throughout the semester. Prior to registration, a contract must be prepared. See Instructor for details.

Associate Degree Applicable**Transfers to CSU only****CS 265 3 Units****Data Structures and Algorithms with C++****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** CS 130 and CS 190 and MATH 250**Corequisite:** CS 130 and MATH 250

This course is an introduction to algorithmic analysis and data structures. Topics include formal computing algorithms, algorithmic strategies, and basic algorithm analysis; canonical data structures; intermediate recursion; human-computer interaction; professionalism and ethical behavior; software information assurance, software engineering, and software reuse.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** COMP 132

Computer Science Associate of Science Degree

This degree is designed to provide students with the fundamentals of software engineering, information processing concepts, and programming to prepare them for entry-level positions as programmers for scientific and business applications.

Code	Title	Units
Required Courses		
CIT 100	Introduction to Personal Computers	3
CS 077	Introduction to C-Sharp	4
CS 110	Fundamentals of Computer Science	3
CS 120	Introduction to Visual Basic.NET	4
CS 220	Advanced Visual Basic.Net Programming	4
CS 190	Programming in C++	4
or CS 215	Programming with Java	
Total Units		22

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Function effectively as a member of a team to accomplish common goals
- Read, write, and interpret Microsoft technical information
- Analyze a problem and create an algorithmic solution
- Apply knowledge of Windows development
- Design, implement, and evaluate secure computer-based system based on specifications
- Think critically and apply the scientific method
- Analyze the impact of computing on individuals, organizations, and society
- Respect privacy and identify responsible conduct
- Engage in research, assess new ideas and information and be prepared for lifelong learning
- Exhibit professional, legal, and ethical behavior

Computer Science Associate of Science Transfer Degree

The field of Computer Science is the study of technology and computation which include methods by which data is accessed and manipulated. This includes representational computation, computer learning paradigms, code constructs, algorithmic modeling, and software development and testing. The SBVC Associate in Science for Transfer (AS-T) degree in Computer Science prepares students for transfer to four-year colleges and universities. Students opting for a degree in computer Science will be prepared to take classes in systems analysis, mathematics, data structures, C++, C#, Python, along with a variety of developing code structures in the cloud or local technologies. After acquiring the skills in this field, students will be prepared to manage and adjust to new and emerging technologies worldwide.

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. To earn this Computer Science AS-T degree, students must meet the following requirements:

- completion of the following major requirements with grades of C or better;
- completion of a minimum of 60 CSU transferable semester units with a grade point average of a least 2.0; and
- certified completion of the Intersegmental General Education Transfer Curriculum (IGETC) for CSU only, which requires a minimum of 37 units.

It is highly recommended that students complete courses that satisfy the U.S. History, Constitution, and American Ideals requirement as part of IGETC before transferring to a CSU.

Students planning to transfer to a four-year institution and major in Computer Science should consult with a counselor regarding the transfer process and lower division requirements.

Code	Title	Units
Required Courses		
CS 110	Fundamentals of Computer Science	3
CS 130	Discrete Structures	3
CS 170	Assembly Language	4
CS 265	Data Structures and Algorithms with C++	3
MATH 250	Single Variable Calculus I	4
MATH 251	Single Variable Calculus II	4
PHYSIC 202	Physics I	4
PHYSIC 203	Physics II	4-5
or BIOL 205	Cell and Molecular Biology	
or BIOL 206	Organismal Biology	
or CHEM 150	General Chemistry I	

Code	Title	Units
Major Total		29-30
Total Units That May Be Double Counted		7-10
General Education (IGETC for CSU) Units ¹		37
Elective (CSU Transferable) Units		0-1
Total Units		60

¹ IGETC-CSU is the only approved General Education pattern for this degree.

See Section on Degree, Certificate, and Transfer Information for additional information on the Associate Degrees for Transfer.

To earn an SBVC Associate Degree for Transfer (AA-T or AS-T) students must complete one of the following general education patterns:

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Function effectively as a member of a team to accomplish common goals
- Read, write, and interpret Microsoft technical information
- Analyze a problem and create an algorithmic solution
- Apply knowledge of Windows development
- Design, implement, and evaluate secure computer-based system based on specifications
- Think critically and apply the scientific method
- Analyze the impact of computing on individuals, organizations, and society
- Respect privacy and identify responsible conduct

- Engage in research, assess new ideas and information and be prepared for lifelong learning
- Exhibit professional, legal, and ethical behavior

Computer Science Certificate of Achievement

This certificate is designed to provide students with the fundamentals of software engineering, information processing concepts, and programming to prepare them for entry-level positions as programmers for scientific and business applications.

Code	Title	Units
Required Courses		
CIT 100	Introduction to Personal Computers	3
CS 077	Introduction to C-Sharp	4
CS 110	Fundamentals of Computer Science	3
CS 120	Introduction to Visual Basic.NET	4
CS 220	Advanced Visual Basic.Net Programming	4
CS 190	Programming in C++	4
or CS 215	Programming with Java	
Total Units		22

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Function effectively as a member of a team to accomplish common goals
- Read, write, and interpret Microsoft technical information
- Analyze a problem and create an algorithmic solution
- Apply knowledge of Windows development
- Design, implement, and evaluate secure computer-based system based on specifications
- Think critically and apply the scientific method
- Analyze the impact of computing on individuals, organizations, and society
- Respect privacy and identify responsible conduct
- Engage in research, assess new ideas and information and be prepared for lifelong learning
- Exhibit professional, legal, and ethical behavior

Corrections

The Corrections Department strives to provide our students with the legal, ethical and educational background necessary to pursue a career in a corrections-related field.

Contact Information

Division: Social Sciences, Human Development, and Physical Education (NH - 345)

Division Phone Number: (909) 384-8603

Faculty Chair: Jeremy Croy (%20jcroy@sbccd.edu), Ed.D.

- Corrections Certificate of Achievement (p. 140)

Corrections courses are not offered every semester. Please refer to the college class schedule for class offerings.

CORREC 101 3 Units

Introduction to Corrections

Lecture: 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course provides a history of and critical analysis of punishment, the various types of punishment, alternatives to punishment and the impact of punishment on the criminal justice system and corrections. Students in this course will conduct a critical examination of the types of correctional institutions and the clients housed in each institution. Contemporary correctional issues are discussed.

Associate Degree Applicable

Transfers to CSU only

C-ID: AJ 200

CORREC 102 3 Units

Correctional Interviewing and Counseling

Lecture: 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course of study is an overview of the techniques in counseling and interviewing available to practitioners in corrections. It includes the use of appropriate techniques and theories in confidence building, which the correctional employee may use in client interviews and counseling.

Associate Degree Applicable

Transfers to CSU only

CORREC 103 3 Units

Gangs and Corrections

Lecture: 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is designed to provide students with a base of knowledge as it relates to the impact of gangs in both correctional and community settings. It includes a review of the types of gangs, history, and criminal activities associated with gangs.

Associate Degree Applicable

Transfers to CSU only

CORREC 104 3 Units

Control and Supervision in Corrections

Lecture: 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course will emphasize local, state, and federal institutions in the role played by the offender and the correctional worker. Topics will include inmate subculture, violence and effects of crowding on inmates and staff, coping techniques for correctional officers in a hostile prison environment.

Associate Degree Applicable

Transfers to CSU only

CORREC 105 3 Units

Legal Aspects of Corrections

Lecture: 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is the study of the historical framework, concepts, and precedents that guide correctional practice. Course material will present a broader perspective of the correctional environment such as the civil rights of prisoners, responsibilities and liabilities of correctional officials, the courts, and police.

Associate Degree Applicable

Transfers to CSU only

CORREC 106 3 Units

Probation and Parole

Lecture: 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is a study of the historical and contemporary view of the application of probation and parole procedures in the criminal justice system. Community corrections as applied to probation and parole, probation as an entity of the courts and parole as an entity of corrections compose the main focus of this course. This course material will broaden the student's concept of community corrections and the rights and liabilities of a person on probation or parole.

Associate Degree Applicable

Transfers to CSU only

Corrections Certificate of Achievement

This certificate is designed for persons considering a career as a Correctional Officer, Youth Correctional Counselor, Jailer, or those already employed seeking advancement in their career. The corrections systems specialize in the punishment and incarceration process as well as rehabilitation of the offender. This certificate is designed to provide students with the fundamentals of the corrections systems, the legal aspects of corrections, control and supervision in corrections, correctional interviewing and counseling, and the probation and parole concepts in corrections.

Code	Title	Units
Required Courses		
CORREC 101	Introduction to Corrections	3
CORREC 102	Correctional Interviewing and Counseling	3
CORREC 103	Gangs and Corrections	3
CORREC 104	Control and Supervision in Corrections	3
CORREC 105	Legal Aspects of Corrections	3
CORREC 106	Probation and Parole	3
Total Units		18

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Apply knowledge and skills required in securing and maintaining employment
- Compare and contrast the differences between probation and parole
- Differentiate and identify control techniques in crisis situations within the correctional setting
- Distinguish the responsibilities and liabilities of the laws governing a correctional officer
- Assess the legal framework within the incarceration process
- Compare prison gang membership both inside and outside the facility
- Choose to further personal interests by completing the requirements for an Administration of Justice degree or developing skills as a crime scene investigator

Criminal Justice

(Also see Police Science (p. 261))

The Criminal Justice courses are designed to meet the needs and interests of individuals interested in law enforcement or related careers. Specialized training is available for persons interested in becoming a Basic Dispatcher, a reserve officer, or a full-time law enforcement officer.

Contact Information

Division: Social Sciences, Human Development, and Physical Education (NH - 345)

Division Phone Number: (909) 384-4431

Program Director: Paul Dennis (%20pdennis@sbccd.edu), M.A.

- Modular Basic Peace Officer Certificate of Achievement (p. 141)

CRMJUS 059 16.5 Units

Reserve Level I Officer

Lecture: 225 contact hours

Lab: 215 contact hours

Prerequisite: CRMJUS 060 or POST Modular Format Level II Officer Course at a Regional Accredited Academy.

Advisory: READ 015 and ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is the third module in the Regular Basic Course Modular Format Training sequence. The intensive and disciplined instruction is designed to meet the minimum requirements of a full-time peace officer or level I reserve peace officer in the State of California. The course covers but is not limited to: professional orientation, victimology/crisis intervention, juvenile law, patrol techniques, domestic violence, traffic enforcement, lifetime fitness, defensive tactics and firearms. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE SUCCESSFULLY COMPLETED PROGRAM PREREQUISITES AND STATE SCREENING REQUIREMENTS.

Associate Degree Applicable

CRMJUS 060 12.5 Units

Reserve Level II Officer

Lecture: 203 contact hours

Lab: 73 contact hours

Prerequisite: CRMJUS 061 or POST Modular Format Level III Officer Course at a Regional Accredited Academy.

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process and READ 015.

This course satisfies Peace Officer Standards and Training (POST) requirements for Level II reserve peace officer certification. This course covers but is not limited to: policing in the community, crimes against persons, property and the justice system, laws of arrest, evidence and search and seizure, use of force, arrest and control, patrol procedures, vehicle pullovers, firearms and chemical agents, crime scenes, evidence and forensics investigative report writing, crimes in progress, and cultural diversity. THIS COURSE IS LIMITED TO STUDENTS WHO HAVE SUCCESSFULLY COMPLETED THE FOLLOWING STATE SCREENING REQUIREMENTS: POSSESSION OF A VALID CALIFORNIA DRIVER'S LICENSE WITHOUT RESTRICTIONS, OTHER THAN REQUIRED EYEGLASSES OR CONTACT LENSES, AND POSSESSION OF A CURRENT LETTER OF CLEARANCE ISSUED BY THE CALIFORNIA DEPARTMENT OF JUSTICE THAT CERTIFIES THE RIGHT TO BE IN POSSESSION OF A FIREARM.

Associate Degree Applicable

CRMJUS 061 6.5 Units

Reserve Level III

Lecture: 81 contact hours

Lab: 118 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process and READ 015.

This course satisfies Peace Officer Standards and Training (POST) requirements for Level III reserve peace officer certification. The PC 832 course is merged in this Level III course. Curriculum covers ethics and professionalism, the criminal justice system, defensive tactics, information systems, criminal law, laws of arrest, search and seizure, firearms, driver awareness, first aid and CPR, custody, evidence and report writing. THIS COURSE IS LIMITED TO STUDENTS WHO HAVE SUCCESSFULLY MET STATE SCREENING REQUIREMENTS: POSSESSION OF A CALIFORNIA DRIVER'S LICENSE WITHOUT RESTRICTIONS, OTHER THAN REQUIRED EYEGLASSES OR CONTACT LENSES AND POSSESSION OF A CURRENT LETTER OF CLEARANCE ISSUED BY THE CALIFORNIA DEPARTMENT OF JUSTICE THAT CERTIFIES THE RIGHT TO BE IN POSSESSION OF A FIREARM.

Associate Degree Applicable

CRMJUS 070 5.5 Units

Basic Dispatcher's Course

Lecture: 90 contact hours

Lab: 30 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process and READ 015.

This course covers basic training for new dispatchers. Topics include but are not limited to professional orientation and ethics, criminal justice system, interpersonal communication, telephone technology and domestic violence. This course satisfies Peace Officers Standards and Training (POST) requirements for basic training of public safety dispatchers.

Associate Degree Applicable

Modular Basic Peace Officer Certificate of Achievement

This modular certificate is designed for state certified entry-level positions in law enforcement agencies. Successful completion of this program and subsequent completion of the hiring agencies probationary period in a Peace Officers' Standards and Training (POST) certified agency qualifies the student for a POST certificate. This program meets Penal Code section 832 requirement of training as a peace officer in the state of California.

This program is broken up into three modules and must be taken in the following order: Module III (approximately 11 weeks), Module II (approximately 16 weeks) and Module I (approximately 26 weeks). Completion of all three modules equals the POST Regular Basic Course.

Code	Title	Units
Required Courses		
CRMJUS 061	Reserve Level III	6.5
CRMJUS 060	Reserve Level II Officer	12.5
CRMJUS 059	Reserve Level I Officer	16.5
Total Units		35.5

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Apply to any law enforcement agency in the State of California as police officer or deputy sheriff
- Apply knowledge and skills required in completing Field Training Program (FTO)
- Chose to further their education by completing the requirements for an Administration of Justice Degree
- Demonstrate the ability to identify and understand key crime prevention techniques
- Understand the importance of community partnerships, prevention, and collaborative problem solving to reduce crime, the fear of crime and improve the quality of life
- Analyze the relationships between the law enforcement, courts, and corrections
- Demonstrate the ability to accurately read and recognize circumstances under which search and seizures can be conducted
- Recognize and respect the complexities of cultural diversity and have the skills necessary for identifying and responding to California's changing communities

Culinary Arts

The Culinary Arts curriculum prepares students for careers in culinary arts, food services, and other hospitality career fields. Hospitality is the second largest employing industry in the state of California and the United States. Successful completion of one of the vocational certificates qualifies students for certification and membership in the American School Food Service Association. Students planning to transfer to a four-year institution and major in Culinary Arts should consult with a counselor regarding the transfer process and lower division requirements.

Contact Information

Division: Applied Technology, Transportation, and Culinary Arts (T - 108)

Division Phone Number: (909) 384-4451

Faculty Chair: Stacy Meyer (smeyer@sbccd.edu), M.A.

-
- Culinary Arts Associate of Arts Degree (p. 145)
 - Professional Baking and Management Associate of Arts Degree (p. 146)
 - Baking Business Certificate of Achievement (p. 144)
 - Baking Certificate of Achievement (p. 144)
 - Culinary Arts Certificate of Achievement (p. 145)
 - Food Preparation Certificate of Achievement (p. 146)
 - Food Service Certificate of Achievement (p. 146)
 - Restaurant Service Certificate of Achievement (p. 147)

CULART 010 5.5 Units

Restaurant Service and Catering I

Lab: 297 contact hours

This course provides a supervised internship in the Culinary Arts Program's operational restaurant. The concentration will be on building basic preparation techniques, recipe standardization, time management and preparing meals for customers.

Associate Degree Applicable

CULART 011 5.5 Units

Restaurant Service and Catering II

Lab: 297 contact hours

Prerequisite: CULART 010

This course provides a supervised internship in the student run restaurant. The concentration will be building on the basic preparation techniques, recipe standardization, time management and preparing meals for customers. The skills learned in this course will build on skills learned in Internship I.

Associate Degree Applicable

CULART 012 5.5 Units

Food Truck Restaurant and Catering Services

Lab: 297 contact hours

Prerequisite: CULART 010

This course provides a supervised internship in the culinary arts operational food truck restaurant. The concentration will be on building management and technical skills needed to manage or run a kitchen and caterings from a food truck.

Associate Degree Applicable

CULART 040 3 Units

Introduction to Baking

Lab: 162 contact hours

This basic baking course highlights baking techniques found in commercial kitchens with a focus on quick breads, cookies, cakes, pies and artisan breads.

Associate Degree Applicable

CULART 041 5.5 Units

Desserts and Pastries

Lecture: 36 contact hours

Lab: 189 contact hours

Prerequisite: CULART 040

This course highlights baking techniques found in commercial kitchens with a focus on cakes and decorating, artisan breads, and complex pastry.

Associate Degree Applicable

CULART 042 3 Units**Cake Decorating****Lab:** 162 contact hours

This class will provide the experience the student needs to become competent in cake decorating. This class will cover royal icing, butter icing, fondant, mirror glaze, fillings and ganache.

Associate Degree Applicable**CULART 043 5.5 Units****Advanced Desserts and Pastry/Chocolate/Sugar****Lab:** 297 contact hours**Prerequisite:** CULART 041

This course highlights baking techniques found in commercial kitchens with a focus on cakes and decorating, artisan breads, sugar work, chocolate work and complex pastry.

Associate Degree Applicable**CULART 044 3 Units****Introduction to Baking Skills, Ingredients, and Technology****Lecture:** 54 contact hours

This course examines the basic baking skills needed in order to work within the Food Service Industry. This course will include how to scale, the ingredient list and how to read a recipe, technology used in baking, the science behind baking and how and why baking works.

Associate Degree Applicable**CULART 050 3 Units****Healthy Cooking and Special Diets****Lecture:** 18 contact hours**Lab:** 108 contact hours

This hands-on cooking class is an overview of the important nutrition principles, beneficial foods, and cooking techniques that contribute to building better brain health. Students prepare anti-inflammatory and nutrient dense foods rich in healthy fats, herbs and spices, antioxidants, probiotics, fiber, vitamins and minerals to create a delicious meal preparation. The focus is on healthy eating, organic food, sustainability and special needs diets and cooking techniques.

Associate Degree Applicable**CULART 098 1-4 Units****Culinary Arts Work Experience****WRKEX:** 300 contact hours

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable**CULART 101 3 Units****Introduction to Hospitality and Customer Service****Lecture:** 54 contact hours

This course is an overview of the food service and hospitality industries with an emphasis on career opportunities, customer service, and personal success strategies. Topics include brief history, description and interrelationships of key industry segments emphasizing the application of technology, ethics, leadership, teams, critical thinking, and service standards for the restaurant and hotel-related business.

Associate Degree Applicable**Transfers to CSU only****CULART 160 3 Units****Introduction to Foods****Lab:** 162 contact hours**Prerequisite:** CULART 225

This course introduces food science principles and food preparation procedures and practices. The emphasis is on food safety and sanitation, ingredient functions and interactions, techniques and food presentation.

Associate Degree Applicable**Transfers to CSU only****C-ID:** NUTR 120**CULART 161 3 Units****Quantity Food Preparation****Lecture:** 18 contact hours**Lab:** 108 contact hours**Advisory:** CULART 160

This course details the basic principles, standards, procedures, and techniques necessary to prepare food for quantity production.

Associate Degree Applicable**Transfers to CSU only****CULART 180 5.5 Units****Small Business and Catering Management****Lecture:** 36 contact hours**Lab:** 189 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course covers catering and banquet techniques for serving 25 to 100 people. It includes developing a small business that will work with clients to develop an event, including customizing a menu and calculating staffing needs for preparation, cooking, transporting, setting up, serving and cleaning up. This course also caters to event planning.

Associate Degree Applicable**Transfers to CSU only****CULART 201 3 Units****Management of Human Resources in Hospitality****Lecture:** 54 contact hours

This course highlights the effective management techniques of human resources as it applies to hotels, restaurants and other hospitality workplaces. It emphasizes personnel planning, recruitment, selection, training, performance management, coaching, counseling and discipline, delegation and decision making.

Associate Degree Applicable**Transfers to CSU only****CULART 205 3 Units****Principles of Design and Presentation****Lecture:** 54 contact hours

This course will explore the theory behind design and layout of platters, trays and plates for presentation. Students will learn presentation standards, matching and pairing of foods, and wines and sauces that make up presentation.

Associate Degree Applicable

CULART 225 3 Units**Sanitation and Safety****Lecture:** 54 contact hours

This course focuses on the sanitation and safety issues involved with handling food through the food service process. Topics include the prevention of food borne illnesses; responsibilities of the food service manager and employees; the characteristics of a food-safe facility; food safety guidelines; and Hazard Analysis and Critical Control Point (HACCP) system and Serve Safe.

Associate Degree Applicable**Transfers to CSU only****C-ID:** HOSP 110**CULART 240 3 Units****Procurement, Purchasing and Selection****Lecture:** 54 contact hours

This course includes purchasing policies, specifications, procedures and controls and their implementation in the procurement of quantity foods, merchandise and supplies.

Associate Degree Applicable**Transfers to CSU only****CULART 250 3 Units****Food, Wine and Beverage Service Concepts****Lecture:** 54 contact hours

This course covers the psychology of service, dining room organization, serving styles, wine and beverage service, staffing and management; a thorough study of major wines, grape varieties and world-wide appellations where they are grown.

Associate Degree Applicable**Transfers to CSU only****CULART 275 3 Units****Food, Beverage and Labor Cost Control****Lecture:** 54 contact hours**Prerequisite:** ACCT 200**Advisory:** CULART 240

This course includes the analysis of food, beverage and labor cost controls within a hospitality operation. Emphasis is on problem solving, cost control techniques to maximize profit while managing expenses. Topics include: establishing standards, cost-volume-profit-analysis, forecasting, purchasing and storage controls, menu costing and pricing, theft prevention and labor control.

Associate Degree Applicable**Transfers to CSU only****CULART 280 3 Units****Principles of Food and Beverage Management****Lecture:** 54 contact hours

In this course the students learn principles of menu planning, sales mix, standardization of recipes, food costing and establishing quality standards. It prepares the students to manage or own a food and beverage establishment.

Associate Degree Applicable**Transfers to CSU only**

Baking Business Certificate of Achievement

This certificate will give students the fundamental knowledge and skills to become an accomplished professional in baking and pastry arts. Students will learn about menu development, communication, food safety, and cost

control. Students will also learn about management, communication and small business to gain entrepreneurial skills.

Code	Title	Units
Required Courses		
CULART 040	Introduction to Baking	3
CULART 041	Desserts and Pastries	5.5
CULART 044	Introduction to Baking Skills, Ingredients, and Technology	3
CULART 101	Introduction to Hospitality and Customer Service	3
CULART 180	Small Business and Catering Management	5.5
CULART 225	Sanitation and Safety	3
CULART 240	Procurement, Purchasing and Selection	3
CULART 275	Food, Beverage and Labor Cost Control	3
Total Units		29

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Establish and maintain safety and sanitation procedures
- Prepare standardized recipes using a variety of cooking, baking and pastry techniques, as well as appropriate equipment and tools
- Produce various baked goods and a variety of international and classic pastries and deserts using basic as well as advanced techniques which meet industry standards
- Design, produce, assemble and decorate display and wedding cakes using various finishing methods which meet industry quality standards

Baking Certificate of Achievement

The baking certificate will give students the fundamental knowledge and skills to prepare to be an accomplished professional in the baking and pastry arts. Students will create hearth and specialty breads, desserts, pastry, patisserie, and confections. Students will develop skills in menu development, communication, food safety, and cost control. They will also take courses in management, communication, and small business to gain entrepreneurial skills.

Code	Title	Units
Required Courses		
CULART 040	Introduction to Baking	3
CULART 041	Desserts and Pastries	5.5
CULART 042	Cake Decorating	3
CULART 043	Advanced Desserts and Pastry/Chocolate/Sugar	5.5
CULART 044	Introduction to Baking Skills, Ingredients, and Technology	3
CULART 101	Introduction to Hospitality and Customer Service	3
CULART 180	Small Business and Catering Management	5.5
CULART 201	Management of Human Resources in Hospitality	3
CULART 205	Principles of Design and Presentation	3
CULART 225	Sanitation and Safety	3
CULART 240	Procurement, Purchasing and Selection	3

CULART 275	Food, Beverage and Labor Cost Control	3
Total Units		43.5

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Establish and maintain safety and sanitation procedures
- Prepare standardized recipes using a variety of cooking, baking and pastry techniques, as well as appropriate equipment and tools
- Produce various baked goods and a variety of international and classic pastries and deserts using basic as well as advanced techniques which meet industry standards
- Design, produce, assemble and decorate display and wedding cakes using various finishing methods which meet industry quality standards

Culinary Arts Associate of Arts Degree

To graduate with a specialization in Culinary Arts, students must complete all requirements for the certificate plus the general breadth requirements for the Associate Degree (minimum total = 60 units)

Code	Title	Units
Required Courses		
CULART 010	Restaurant Service and Catering I	5.5
CULART 011	Restaurant Service and Catering II	5.5
	or CULART 012 Food Truck Restaurant and Catering Services	
CULART 101	Introduction to Hospitality and Customer Service	3
CULART 160	Introduction to Foods	3
CULART 161	Quantity Food Preparation	3
CULART 180	Small Business and Catering Management	5.5
CULART 201	Management of Human Resources in Hospitality	3
CULART 225	Sanitation and Safety	3
CULART 240	Procurement, Purchasing and Selection	3
CULART 250	Food, Wine and Beverage Service Concepts	3
CULART 275	Food, Beverage and Labor Cost Control	3
CULART 280	Principles of Food and Beverage Management	3
Total Units		43.5

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate to the instructor during the final exam how to use a knife and the basic knife cuts
- Demonstrate how to calculate food costs as it applies to menus by pricing a menu as part of the final in this course
- Demonstrate that they understand optimal quantity, price and standard specifications of ordering by completing a class project that showcases each component of purchasing
- Demonstrate to the instructor by recalling the top five problems that the restaurant industry encounters on a final exam
- Recall on a written exam how to derive the "Break-even Point" of a restaurant
- Define and recall on a written exam the purchasing function
- Recall the seven areas of a HACCP plan
- Be prepared to transfer a core curriculum to an accredited, four-year college or university with junior class standing in Culinary Arts or a related major

Culinary Arts Certificate of Achievement

The Culinary Arts Certificate is designed for students interested in employment at commercial restaurants, institutions, health care facilities, school food services, and related food service industries at the middle management level.

Code	Title	Units
Required Courses		
CULART 010	Restaurant Service and Catering I	5.5
CULART 011	Restaurant Service and Catering II	5.5
	or CULART 012 Food Truck Restaurant and Catering Services	
CULART 101	Introduction to Hospitality and Customer Service	3
CULART 160	Introduction to Foods	3
CULART 161	Quantity Food Preparation	3
CULART 180	Small Business and Catering Management	5.5
CULART 201	Management of Human Resources in Hospitality	3
CULART 225	Sanitation and Safety	3
CULART 240	Procurement, Purchasing and Selection	3
CULART 250	Food, Wine and Beverage Service Concepts	3
CULART 275	Food, Beverage and Labor Cost Control	3
CULART 280	Principles of Food and Beverage Management	3
Total Units		43.5

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate to the instructor during the final exam how to use a knife and the basic knife cuts
- Demonstrate how to calculate food costs as it applies to menus by pricing a menu as part of the final in this course

- Demonstrate that they understand optimal quantity, price and standard specifications of ordering by completing a class project that showcases each component of purchasing
- Demonstrate to the instructor by recalling the top five problems that the restaurant industry encounters on a final exam
- Recall on a written exam how to derive the 'Break-even Point' of a restaurant
- Define and recall on a written exam the purchasing function
- Recall the seven areas of a HACCP plan

Food Preparation Certificate of Achievement

The Food Preparation Certificate is designed to prepare students for employment in food preparation, production, and food services management. Students will be taught, in a laboratory setting, all facets of the food service industry: from knife skills and sauce-making to menu-planning and artful plating. In addition, classroom learning will highlight food industry business operations and management.

Code	Title	Units
Required Courses		
CULART 010	Restaurant Service and Catering I	5.5
CULART 011	Restaurant Service and Catering II	5.5
	or CULART 012 Food Truck Restaurant and Catering Services	
CULART 101	Introduction to Hospitality and Customer Service	3
CULART 160	Introduction to Foods	3
CULART 161	Quantity Food Preparation	3
CULART 180	Small Business and Catering Management	5.5
CULART 225	Sanitation and Safety	3
CULART 240	Procurement, Purchasing and Selection	3
CULART 250	Food, Wine and Beverage Service Concepts	3
Total Units		34.5

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate how to properly follow a recipe by preparing a recipe of their choice for the restaurant at least once during the semester
- Recall the seven areas of a HACCP plan
- Recite on a final exam how they will store products for maximum quality
- Recite for the instructor on the final exam how the food service industry was started by writing a brief essay on the history of food service
- Recite the principles of scientific reasoning why the combination method of cooking works on a final exam
- Recite the proper techniques used for preparing, ordering and receiving a large quantity of food for a given number of people on a final exam
- Have the knowledge and understanding of how to conduct business and make a profit on each catering and or banquet
- Recall on an exam how to write a catering contract

Food Service Certificate of Achievement

The Food Service Certificate is designed for students interested in employment at commercial restaurants, institutions, health care facilities, school food services, and related food service industries.

Code	Title	Units
Required Courses		
BUSAD 100	Introduction to Business	3
CULART 101	Introduction to Hospitality and Customer Service	3
CULART 160	Introduction to Foods	3
CULART 161	Quantity Food Preparation	3
CULART 201	Management of Human Resources in Hospitality	3
CULART 225	Sanitation and Safety	3
CULART 240	Procurement, Purchasing and Selection	3
CULART 250	Food, Wine and Beverage Service Concepts	3
CULART 275	Food, Beverage and Labor Cost Control	3
Total Units		27

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Identify on an exam the people who influenced the restaurant business the most throughout history and how
- Recall on the final exam the names of the equipment that is used in a commercial kitchen
- Define the cooking terminology on weekly quizzes as well as on the final exam
- Demonstrate to the instructor that he or she thoroughly understands what it takes to open a restaurant by completing a feasibility study and designing a restaurant along with costs on paper and presenting the final project to the entire class as a class project and part of the final for the course
- Recall on a written exam how to derive the 'Break-even Point' of a restaurant
- Recall the seven areas of a HACCP plan
- Define and recall on a written exam the purchasing function

Professional Baking and Management Associate of Arts Degree

Students who receive their degree in baking will gain the skills and knowledge to be an accomplished professional in the baking and pastry arts. Students will create hearth and specialty breads, desserts, pastry, patisserie, and confections. Students will learn about menu development, communication, food safety, and cost control. They will also take courses in management, communication and small business to gain entrepreneurial skills. To graduate with a specialization in Professional Baking and Management, students must complete all requirements for the certificate

plus the general breadth requirements for the Associate Degree (minimum total = 60 units)

Code	Title	Units
Required Courses		
CULART 040	Introduction to Baking	3
CULART 041	Desserts and Pastries	5.5
CULART 042	Cake Decorating	3
CULART 043	Advanced Desserts and Pastry/Chocolate/Sugar	5.5
CULART 044	Introduction to Baking Skills, Ingredients, and Technology	3
CULART 101	Introduction to Hospitality and Customer Service	3
CULART 180	Small Business and Catering Management	5.5
CULART 201	Management of Human Resources in Hospitality	3
CULART 205	Principles of Design and Presentation	3
CULART 225	Sanitation and Safety	3
CULART 240	Procurement, Purchasing and Selection	3
CULART 275	Food, Beverage and Labor Cost Control	3
Total Units		43.5

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Establish and maintain safety and sanitation procedures
- Prepare standardized recipes using a variety of cooking, baking and pastry techniques, as well as appropriate equipment and tools
- Produce various baked goods and a variety of international and classic pastries and deserts using basic as well as advanced techniques which meet industry standards
- Design, produce, assemble and decorate display and wedding cakes using various finishing methods which meet industry quality standards

Restaurant Service Certificate of Achievement

The Restaurant Certificate is designed to prepare students for employment in the front-of-the-house of the restaurant/hospitality industry as fine dining servers and first-line supervisors.

Code	Title	Units
Required Courses		
CULART 010	Restaurant Service and Catering I	5.5
CULART 011	Restaurant Service and Catering II	5.5
CULART 101	Introduction to Hospitality and Customer Service	3
CULART 225	Sanitation and Safety	3
CULART 240	Procurement, Purchasing and Selection	3

CULART 250	Food, Wine and Beverage Service Concepts	3
Total Units		23

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Establish and maintain safety and sanitation procedures
- Prepare standardized recipes using a variety of cooking techniques which meet industry quality standards
- Prepare a variety of recipes of utilizing the correct techniques, ingredients and equipment which meet industry quality standards
- Define and articulate the core values of the culinary professional

Dance

Contact Information

Division: Arts and Humanities (NH - 223)

Division Phone Number: (909) 384-8633

Faculty Chairs: Melinda Fogle (%20mfogle@sbccd.edu), Ph.D. and Margaret Worsley (mworsley@sbccd.edu), M.M.

DANCE 101A 2 Units

Beginning Modern Dance

Lab: 108 contact hours

This course focuses on the "inner impulse" of modern dance and draws upon the movement vocabularies of classical, post-modern, and contemporary styles. A strong emphasis is placed on the acquisition of beginning modern dance movement vocabulary, dynamic alignment, and suppleness, flexibility, rhythmically, musicality, endurance and balance.

Associate Degree Applicable

Transfers to both UC/CSU

DANCE 101B 2 Units

Beginning/Intermediate Modern Dance

Lab: 108 contact hours

Prerequisite: DANCE 101A

This beginning/intermediate level of Modern Dance utilizes the basic knowledge of beginning modern dance techniques to increase the movement vocabularies of classical, post-modern, and contemporary styles. Students will utilize a higher level of codified modern dance terminology and combinations, which are essential to move forward in modern dance.

Associate Degree Applicable

Transfers to both UC/CSU

DANCE 102A 2 Units**Intermediate Modern Dance****Lab:** 108 contact hours

This course offers an intermediate study of modern dance techniques. It will include movement vocabularies of Graham, Horton, Cunningham, Limon and the post modern and contemporary styles of today. Emphasis is on expanding and deepening the dancer's technical and expressive skills through more complicated techniques, combinations and improvisations. Concert and performance is required.

Associate Degree Applicable**Transfers to both UC/CSU****DANCE 102B 2 Units****Intermediate/Advanced Modern Dance****Lab:** 108 contact hours**Prerequisite:** DANCE 102A

This course explores further the development of modern dance skills, techniques and vocabulary developed in beginning through intermediate modern dance. An in-depth emphasis is placed on increased flexibility and endurance, clarity of technique, rhythm, time, form and energy through choreographic and improvisational exercises and combinations. Concert attendance and performance is required.

Associate Degree Applicable**Transfers to both UC/CSU****DANCE 103A 2 Units****Beginning Ballet****Lab:** 108 contact hours

This course is an introduction to basic ballet technique emphasizing ballet etiquette, terminology, placement, and alignment, warm-up and injury prevention; body conditioning principles as they relate to ballet technique, flexibility and strengthening exercises, basic barre, basic center floor, and traveling combination exercises.

Associate Degree Applicable**Transfers to both UC/CSU****DANCE 103B 2 Units****Beginning/Intermediate Ballet****Lab:** 108 contact hours**Prerequisite:** DANCE 103A

This course will utilize the knowledge learned in Beginning Ballet to become more proficient in ballet technique by using higher level codified ballet terminology, utilizing placement, alignment, expanding and more complex warm-up technique, basic barre, basic center technique, increasing flexibility, furthering strengthening exercises and more complex traveling combination exercises as it relates to this level of ballet, while reviewing cumulative ballet technique for higher levels of ballet.

Associate Degree Applicable**Transfers to both UC/CSU****DANCE 105A 2 Units****Beginning Jazz Dance****Lab:** 108 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is an introduction to the beginning techniques of Jazz Dance with a focus on movement vocabulary, placement, centering, balance, alignment, strength, flexibility, and across the floor progressions. Concert performance is optional for this class.

Associate Degree Applicable**Transfers to both UC/CSU****DANCE 105B 2 Units****Beginning/Intermediate Jazz Dance****Lab:** 108 contact hours**Prerequisite:** DANCE 105A

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is a comprehensive survey of beginning/ intermediate techniques of Jazz Dance with a focus on vocabulary, placement, centering, balance, alignment, strength, flexibility, and across the floor progressions in preparation for the intermediate level.

Associate Degree Applicable**Transfers to both UC/CSU****DANCE 106A 2 Units****Intermediate Jazz Dance****Lab:** 108 contact hours**Prerequisite:** DANCE 105B

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course provides a continuing study of jazz dance techniques including the styles and techniques of jazz innovators such as Jack Cole, Gus Giordano, Luigi, Jerome Robbins, Bob Fosse, and Joe Tremaine. Historical and theoretical understandings of jazz technique from film, television, and stage are a primary focus as well as the development of the dancer's technical and expressive skills. Concert performance is required to pass this class.

Associate Degree Applicable**Transfers to both UC/CSU****DANCE 106B 2 Units****Intermediate/Advanced Jazz Dance****Lab:** 108 contact hours**Prerequisite:** DANCE 106A

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course provides a continuing study of jazz dance techniques including the styles and techniques of jazz innovators such as Gillian Lynne, Debbie Allen, Michael Bennet, Luigi, Jerome Robbins, Bob Fosse, and Joe Tremaine. Contemporary and commercial styles will also be introduced. Historical and theoretical understandings of jazz techniques related to the dancers expressive skills are the primary focus. Concert performance is required to pass this class.

Associate Degree Applicable**Transfers to both UC/CSU****DANCE 107X2 2 Units****Beginning Tap Dance****Lab:** 108 contact hours

This is a basic course of instruction in the art of tap dancing. Topics include physical strengthening, rhythmic awareness, execution of basic tap-dancing steps, floor exercises, vocabulary for theatrical presentation of tap choreography, audience awareness and basic acting skills. This course may be taken two times.

Associate Degree Applicable**Transfers to both UC/CSU**

DANCE 114X4 4 Units**Dance Rehearsal and Performance****Lab:** 216 contact hours

This course provides instruction and supervision of rehearsal and performance in various dance productions. ENROLLMENT IN THIS CLASS IS CONTINGENT UPON AN AUDITION FOR A CURRENT DANCE PRODUCTION. This course may be taken four times.

Associate Degree Applicable**Transfers to both UC/CSU****DANCE 200 3 Units****Dance History and Appreciation****Lecture:** 54 contact hours

Prerequisite: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is a comprehensive survey of dance from primitive times up to the 21st Century. Emphasis is placed on historical perspectives revealing dance as an emerging art form. Course material also includes the relation of dance to religion, culture, politics, social attitudes and its relation to other art forms.

Associate Degree Applicable**Transfers to both UC/CSU****DANCE 206X4 4 Units****Dance Production****Lab:** 216 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course provides instruction and analysis of all aspects of dance production including organizing a dance production; publicity and marketing; budget; theatrical and dance lighting; set design; costumes and makeup; and instruction in elements of physical theater, such as stage terminology, stage directions, and roles of theatre personnel. This course may be taken four times.

Associate Degree Applicable**Transfers to both UC/CSU**

Economics

Economics is concerned with the study of how people and societies produce various commodities and distribute them for consumption, now or in the future, among various persons and groups in society. As a descriptive, academic discipline, it is concerned with accurate portrayals of national economics as well as those of regions, firms, and individuals. As an analytic discipline, its tools are used to order, modify, and describe economic activity. Training in economics, supplemented by course work in other disciplines, provide excellent preparations for particular careers in industry, government, and many professions including management, law, education, public administration or consulting. The study of economics also provides useful intellectual training for individuals who may be uncertain about their future careers. Students planning to transfer to a four-year institution and major in economics or related fields should consult with a counselor regarding the transfer process and lower division requirements.

Contact Information

Division: Social Sciences, Human Development, and Physical Education (NH - 345)

Division Phone Number: (909) 384-8603

Faculty Chair: James Dulgeroff (jdulgeroff@sbccd.edu), Ph.D.

- Economics Associate of Arts Transfer Degree (p. 150)

ECON 100 3 Units**Introduction to Economics****Lecture:** 54 contact hours

This course is an entry-level, general education course which introduces and surveys basic macroeconomic, microeconomic, and personal finance principles. This course emphasizes the causes and consequences of the business cycle on output, employment, and prices as well as, basic supply and demand analysis across different market structures. Analysis further includes the role of the government in the macro-economy and the micro-economy.

Associate Degree Applicable**Transfers to both UC/CSU****ECON 200 3 Units****Principles of Macroeconomics****Lecture:** 54 contact hours

Advisory: Eligibility for ENGL 101 or ENGL 101H as determined by SBVC assessment process and MATH 095 or MATH 096.

This course provides an introduction to macroeconomic theory and the role of fiscal and monetary policies in economics with special emphasis on national economic problems, aggregate measures of economic activity, macroeconomic equilibrium, financial institutions, economic growth, the business cycle and international economics.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ECON 202**ECON 200H 3 Units****Principles of Macroeconomics - Honors****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H**Advisory:** MATH 095 or MATH 096

This course provides an introduction to macroeconomic theory and the role of fiscal and monetary policies in economics with special emphasis on national economic problems, aggregate measures of economic activity, macroeconomic equilibrium, economic growth, the business cycle, financial institutions and international economics. This course is intended for students in the Honors Program but is open to all students who desire more challenging coursework.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ECON 202**ECON 201 3 Units****Principles of Microeconomics****Lecture:** 54 contact hours

Advisory: Eligibility for ENGL 101 or ENGL 101H as determined by SBVC assessment process and MATH 095 or MATH 096.

This course provides an introduction to microeconomic theory, including economic development, international economics, and comparative economic systems with special emphasis on microeconomic problems such as the provisioning of public goods and environmental regulations.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ECON 201

ECON 201H 3 Units**Principles of Microeconomics - Honors****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H**Advisory:** MATH 095 or MATH 096

This course provides an introduction to microeconomic theory, including economic development, international economics, and comparative economic systems with special emphasis on microeconomic problems such as the provisioning of public goods and environmental regulations. This course is intended for students in the Honors Program but is open to all students who desire more challenging coursework.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ECON 201**ECON 208 4 Units****Business and Economic Statistics****Lecture:** 72 contact hours

Prerequisite: MATH 095 or MATH 096 or eligibility for MATH 102 as determined through the SBVC assessment process.

This course is a study of statistical methods commonly used in business and economics including measures of central tendency; measures of dispersion and skewness; probability concepts and distributions; statistical inferences; parametric and non-parametric hypothesis testing; index numbers time series analysis; simple regression, and correlation analysis.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MATH 110

Economics Associate of Arts Transfer Degree

The Economics program focuses on the systematic study of the production, conservation and allocation of resources in conditions of scarcity, together with the organizational frameworks related to these processes. Economics is truly all around us, present in almost every aspect of our lives from the perspective that every human activity involves choice between alternatives (i.e., trade-offs) and the use of some scarce resource.

Studying the subject gives students a general understanding of the world and its inner workings. Students learn everything from what determines the price of goods and services to why the average standards of living vary so widely within and between countries. An economics major is very versatile and provides excellent preparation for law school. Economics majors can find positions with the government, in all areas of business decision-making, in positions associated with technology or finance, and more.

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. To earn this Economics AA-T degree, students must meet the following requirements:

- completion of the following major requirements with grades of C or better;
- completion of a minimum of 60 CSU transferable semester units with a grade point average of a least 2.0; and

- certified completion of the CSU General Education-Breadth (CSU-GE) or Intersegmental General Education Transfer Curriculum (IGETC) for CSU, which requires a minimum of 37-39 units.

It is highly recommended that students complete courses that satisfy the U.S. History, Constitution, and American Ideals requirement as part of CSUGE or IGETC before transferring to a CSU.

Students planning to transfer to a four-year institution and major in Economics should consult with a counselor regarding the transfer process and lower division requirements.

Code	Title	Units
Required Courses		
ECON 200	Principles of Macroeconomics	3
or ECON 200H	Principles of Macroeconomics - Honors	
ECON 201	Principles of Microeconomics	3
or ECON 201H	Principles of Microeconomics - Honors	
ECON 208	Business and Economic Statistics	4
or MATH 108	Introduction to Probability and Statistics	
MATH 141	Business Calculus	4
or MATH 250	Single Variable Calculus I	
List A: Select one course from the following (3-4 units)		
ACCT 200	Financial Accounting	4
ACCT 201	Managerial Accounting	4
BUSAD 127	Business Communication	3
CIT 101	Introduction to Computer Literacy	3
MATH 102	College Algebra	4
MATH 151	Precalculus	4
MATH 251	Single Variable Calculus II	4
List B: Select one course from the following (3-5 units)		
ECON 100	Introduction to Economics	3
MATH 252	Multivariable Calculus	5
MATH 265	Linear Algebra	4
Code	Title	Units
Major Total		20-23
Total Units That May Be Double Counted		9
General Education (CSU-GE or IGETC) Units		37-39
Elective (CSU Transferable) Units		7-12
Total Units		60

See Section on Degree, Certificate, and Transfer Information for additional information on the Associate Degrees for Transfer.

To earn an SBVC Associate Degree for Transfer (AA-T or AS-T) students must complete one of the following general education patterns:

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Explain, graph, and analyze key macroeconomic and microeconomic models by applying the concept of market equilibrium
- Identify data sources, describe appropriate empirical tools, and perform research on data they retrieve from original surveys, or official and industry sources
- Evaluate economic issues and public policy by using economic models or data analysis while identifying underlying assumptions of the model(s) and limitations
- Communicate economic ideas by means of written essays or reports which demonstrate the ability to formulate informed opinions on economic policy issues and recognize the validity of opposing viewpoints

- General Electrician Certificate of Achievement (p. 160)
- Green Technician Certificate of Career Preparation (p. 161)
- Industrial Automation Certificate of Achievement (p. 161)
- Smart Systems Automation Technology Certificate of Completion (p. 162)
- Zero Net Energy Certificate of Achievement (p. 162)

Electricity, Electronics, and Technical Calculations

The Electricity/Electronics curriculum is designed to provide entry-level job training in this broad and expanding field. These classes lead to trainee positions in maintenance, installation, field service, networking, and apprenticeship in the area of specialization. Students who seek a Certificate or an Associate of Science Degree in the fields of:

1. Electronics Technology,
2. Communication Engineering Technology,
3. Computer Engineering Technology,
4. Electric Power Technology, or
5. Avionics Technology,

will complete a series of Electronics Technology courses common to electricity, communications, and computers and then complete the appropriate area of specialization. A certificate is also available in the General Electrician Certification Program.

Students planning to transfer to a four-year institution and major in electronics should consult with a counselor regarding the transfer process and lower division requirements.

Contact Information

Division: Applied Technology, Transportation, and Culinary Arts (T - 108)

Division Phone Number: (909) 384-4451

Faculty Chair: Tarif (Terry) Halabi (thalabi@sbccd.edu), M.S.E.E.

-
- Avionics Technology Associate of Science Degree (p. 155)
 - Communication Engineering Technology Associate of Science Degree (p. 156)
 - Computer Engineering Technology Associate of Science Degree (p. 157)
 - Electric Power Technology Associate of Science Degree (p. 158)
 - Electronics Technology Associate of Science Degree (p. 159)

- Avionics Technology Certificate of Achievement (p. 155)
- Communication Engineering Technology Certificate of Achievement (p. 156)
- Computer Engineering Technology Certificate of Achievement (p. 157)
- Electric Power Technology Certificate of Achievement (p. 158)
- Electronics Technology Certificate of Achievement (p. 160)

ELEC 021 3 Units

Blueprint Reading for Building Energy Systems

Lecture: 54 contact hours

Advisory: TECALC 087

This course is a study of basic information for reading blueprints and construction drawings. It is designed for those who must assimilate information found in working drawings and specifications.

Associate Degree Applicable

ELEC 050 4 Units

Zero Net Energy Building Science

Lecture: 72 contact hours

Zero Net Energy (ZNE) Building Science includes an overview of many progressive measures that improve the energy performance of buildings. Studies focus on architectural design of building, construction methodology, green HVAC systems, renewable energy systems and the terminology used in the ZNE Industry. A survey of projects, policies and programs driving ZNE performance in residential and non-residential buildings will be studied.

Associate Degree Applicable

ELEC 091 3 Units

Fundamentals of Solar Energy

Lecture: 54 contact hours

Prerequisite: ELECTR 230

This course is designed for students interested in a career in the solar industry. The fundamental principles and functions of photovoltaic industry will be introduced along with the planning, installation and maintenance of all necessary components for a photovoltaic system. The transmission and distribution of electric power will be reviewed, and basic concepts of electricity, identification, functions and operations of components will be surveyed.

Associate Degree Applicable

ELEC 101 3 Units

Supply Chain Technology

Lecture: 36 contact hours

Lab: 54 contact hours

Prerequisite: ELECTR 110 and ELECTR 111

This course is an industrial technology overview covering the basic knowledge and skills needed for supply chain technicians to successfully work in automated factories, warehouses, and distribution centers. Introduction to the troubleshooting and maintenance of complex electromechanical systems is a major focus of this class.

Associate Degree Applicable

Transfers to CSU only

ELEC 215C 4 Units**Electrical Control of Hydraulic-Pneumatic Systems****Lecture:** 36 contact hours**Lab:** 108 contact hours**Prerequisite:** ELECTR 115 and ELECTR 116

This course introduces hydraulic/pneumatic fundamentals, principle of electrical control of hydraulic/pneumatic systems, electrical concepts of ladder diagrams, functional systems of electrical/hydraulic/pneumatic sequencing of actuators, industrial applications, industrial-type hydroelectric and electro pneumatic circuits, and troubleshooting electrically controlled hydraulic/pneumatic systems.

Associate Degree Applicable**Transfers to CSU only****ELEC 216C 4 Units****Introduction to Industrial Electricity****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** ELECTR 110 and ELECTR 111

This course covers the study of electrical power transmission, the National Electrical Code, electrical blueprints, residential and commercial wiring.

Associate Degree Applicable**Transfers to CSU only****ELEC 217C 4 Units****Industrial Electricity****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** ELECTR 115 and ELECTR 116

This course covers the study of DC motors, single and polyphase AC motors, and the necessary controls and measuring equipment used for industrial circuit protection and switching equipment.

Associate Degree Applicable**Transfers to CSU only****ELEC 218C 4 Units****Controlling Industrial Electricity****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** ELECTR 115 and ELECTR 116

This course covers the study of DC, AC, and polyphase motor operation, mechanical and programmable machine controls, relays and programmable logic controllers (PLCs), ladder logic diagrams and the communication network linking the programmer, the controller, the laptop computer and the machine.

Associate Degree Applicable**Transfers to CSU only****ELEC 219C 4 Units****Industrial Electronic Systems Controls II****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** ELEC 218C

This course examines system application of industrial electronic systems (PLC) including industrial production and processes, automation, and programmable motor controllers. Emphasis is on programmable logic controllers.

Associate Degree Applicable**Transfers to CSU only****ELECTR 098 1-4 Units****Electronics Work Experience****WRKEX:** 300 contact hours

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable**ELECTR 110 3 Units****Direct Current Circuit Analysis****Lecture:** 54 contact hours**Corequisite:** ELECTR 111

This is a comprehensive course in direct current circuit analysis including Ohm's law, series and parallel circuit analysis, voltage and current dividers, DC meters, Kirchhoff's laws, magnetic circuits, and network theorems.

Associate Degree Applicable**Transfers to both UC/CSU****ELECTR 111 1 Unit****Direct Current Circuit Laboratory****Lab:** 54 contact hours**Corequisite:** ELECTR 110

This course is the laboratory complement to ELECTR 110 including experiments reinforcing the theory of electricity and the necessary technical skills.

Associate Degree Applicable**Transfers to both UC/CSU****ELECTR 115 3 Units****Alternating Current Circuit Analysis****Lecture:** 54 contact hours**Prerequisite:** ELECTR 110 and ELECTR 111**Corequisite:** ELECTR 116

This course is an in-depth analysis of alternating current circuits to include AC generation and transformation, inductance and inductive circuits, capacitance and capacitive circuits, time constants, rectangular and polar notation, AC circuit analysis, resonance, and filters.

Associate Degree Applicable**Transfers to both UC/CSU****ELECTR 116 1 Unit****Alternating Current Circuit Laboratory****Lab:** 54 contact hours**Prerequisite:** ELECTR 110 and ELECTR 111**Corequisite:** ELECTR 115

This course is the laboratory complement to ELECTR 115 including skill training in reading and interpreting measurements on an oscilloscope, using QT boards, function generators, and other test equipment.

Associate Degree Applicable**Transfers to both UC/CSU**

ELECTR 155 3 Units**Electronic Drawing and Assembly****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ELECTR 110

This course covers electronic schematic capture, simulation, export to printed circuit board design, layout, and auto-routing software. It includes basic Computer Aided Design (CAD) drafting, block diagrams, library component templates, and printed circuit board (PCB) design, fabrication, and assembly, using with through-hole and surface-mount technology and devices (SMT and SMD).

Associate Degree Applicable**Transfers to CSU only****ELECTR 220C 3 Units****F.C.C. Rules and Regulations****Lecture:** 54 contact hours

This course is a review of the requirements and questions for the General Radiotelephone Operator's License offered by the Federal Communications Commission.

Associate Degree Applicable**Transfers to CSU only****ELECTR 230 3 Units****Semiconductor Devices****Lecture:** 54 contact hours**Prerequisite:** ELECTR 110

This course is a study of semiconductor devices including the chemistry and physics of the structure of the atom and the operation of semiconductor devices based on energy level analysis.

Associate Degree Applicable**Transfers to CSU only****ELECTR 235 4 Units****Solid State Circuit Analysis****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** ELECTR 230

This course covers an analysis of discrete solid-state circuits and their design including diodes, circuit configurations, amplifiers and amplification, biasing techniques, feedback principles, FETs, photo devices, and evaluation of designed circuits.

Associate Degree Applicable**Transfers to CSU only****ELECTR 250C 4 Units****Radio Transmitters, Receivers and Antennas****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** ELECTR 115 and ELECTR 116

In this course, students explore topics of electronic communications, such as the electromagnetic frequency spectrum, frequency bands, analog and digital modulation, digital data, antennas, transmission lines and loads, government services and fiber optics. Exercises include diagramming modern transmitter and receiver components, plotting impedances, and making line and load conversions.

Associate Degree Applicable**Transfers to CSU only****ELECTR 255C 4 Units****Telephone and Data Networking****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** ELECTR 115 and ELECTR 116

This course includes telephone topology with emphasis on the Open System Interconnection (OSI) model, telephony color code, tools, patch panels, phone wiring and installation, voice and data block wiring, installation, and programming/ troubleshooting a digital key system and network.

Associate Degree Applicable**Transfers to CSU only****ELECTR 257C 4 Units****Navigation and Communication Systems****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** ELECTR 250C

This course covers the bench test, installation and ramp test of transmitter and receiver systems and their operating principles. Systems include Auto Direction Finder, Very High Frequency Omnidirectional Range, LORAN-C, Omega, INS, DME, ILS, VHF communication, HF communication, FM transceivers and transponder.

Associate Degree Applicable**Transfers to CSU only****ELECTR 265 4 Units****Digital Logic Design****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course covers combinational logic utilizing Boolean algebra and the binary numbering system. Topics include Karnaugh maps, truth tables, coding, switching circuits, converters, logic circuit elements, timers, digital-to-analog and analog-to-digital conversions, decoders, multiplexers, demultiplexers, and displays.

Associate Degree Applicable**Transfers to CSU only****ELECTR 266 4 Units****Microprocessor Technology With Assembly Language****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** ELECTR 265

This course covers the fundamental principles of microprocessors and microcontrollers. The architecture of the 8051 series microcontroller is highlighted along with its' operation and applications in embedded systems. Students make use of assembly language and C language to interface with both analog and digital circuitry. Software simulation tools and microcontroller trainer boards are used in lab exercises and a final project.

Associate Degree Applicable**Transfers to CSU only**

ELECTR 270 4 Units**Linear Integrated Circuit Analysis****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** ELECTR 115 and ELECTR 116

This course is a review of bipolar transistor fundamentals and differential amplifiers with emphasis on inner connections and circuit designs using integrated circuit operational amplifiers, phase-lock loops, and current differentiating amplifiers. Includes breadboarding and evaluation of various types of active linear and pulse circuits involving operational amplifiers and phase-lock loops.

Associate Degree Applicable**Transfers to CSU only****ELECTR 280C 4 Units****Computer Operation and Maintenance****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** ELECTR 266

This course provides a working knowledge of the principles and analysis techniques applicable to computer operations and maintenance. It includes the theory and experience necessary to understand and analyze computer circuitry as needed for entry-level work in the computer and electronics industry.

Associate Degree Applicable**Transfers to CSU only****ELECTR 290C 4 Units****Industrial Computers and Robotics Maintenance****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** ELECTR 266

This course is a comprehensive study of computers and robots used in industry. Including diagnostics and programming for controlling robots, machines and medical equipment.

Associate Degree Applicable**Transfers to CSU only****ELECTR 600 Noncredit****Preparation for DC Circuit Certification****Lecture:** 54 contact hours

This noncredit electronics technology course prepares students with the specific skills and knowledge in the field of Direct Current (DC) processes and circuits. This course prepares students to take the DC Basics Certification Exam with the Electronics Technicians Association (ETA).

ELECTR 601 Noncredit**Preparation for AC Basics Certification****Lecture:** 54 contact hours

This noncredit electronics technology course prepares students with the specific skills and knowledge in the field of AC circuits. This course prepares students to take the AC Basics Certification Exam with the Electronics Technicians Association (ETA).

ELECTR 602 Noncredit**Preparation for Analog Electronics Certification****Lecture:** 108 contact hours

This noncredit electronics technology course prepares students with the specific skills and knowledge in the field of analog processes and circuits. This course prepares students to take the Analog Electronics Certification Exam with Electronics Technicians Association (ETA).

ELECTR 603 Noncredit**Preparation for Digital Basics Certification****Lecture:** 54 contact hours

This noncredit electronics technology course prepares students with the specific skills and knowledge in the field of digital processes and circuits. This course prepares students to take the Digital Basics Certification Exam with the Electronics Technicians Association (ETA).

ELECTR 604 Noncredit**Preparation for Comprehensive Electronics Certification****Lecture:** 54 contact hours

This noncredit electronics technology course prepares students with the specific skills and knowledge in the field of comprehensive knowledge of motors, generators, control circuits, circuit protection, and power distribution. This course prepares students to take the Comprehensive Electronics Certification with the Electronics Technicians Association (ETA).

ELECTR 620 Noncredit**Introduction to Computer Networking****Lecture:** 54 contact hours**Lab:** 54 contact hours

This noncredit electronics technology course prepares students to take the ETA (Electronics Technicians Association International) STS-CN industry certification. The course covers wire and wireless local area network basics, Internet/VoIP services and security, hardware and software installation, and cabling distribution.

ELECTR 621 Noncredit**Security, Alarm, and Surveillance Systems****Lecture:** 54 contact hours**Lab:** 54 contact hours

This noncredit electronics technology course prepares students to take the ETA (Electronics Technicians Association International) STS-SS industry certification. The course covers closed-circuit television (CCTV) system, security and fire alarm system, Voice-over-Internet Protocol (VoIP), security cameras, smart locks, and smart access control.

ELECTR 622 Noncredit**Smart Environmental Controls****Lecture:** 54 contact hours**Lab:** 54 contact hours

This noncredit electronics technology course prepares students to take the ETA (Electronics Technicians Association International) STS-EC industry certification. The course covers smart lighting, smart thermostats, smart plugs and switches, smart HVAC, and carbon monoxide and smoke detectors, and other miscellaneous smart devices.

ELECTR 623 Noncredit**Audio-Visual Entertainment Systems****Lecture:** 54 contact hours**Lab:** 54 contact hours

This noncredit course prepares students to take the ETA (Electronics Technicians Association International) STS-AV industry certification. The course covers smart televisions and projectors, HD, UHD, LED, and OLED television technologies, wireless smart speakers, Wi-Fi screencasting, audio and HD cabling, amplifiers and receivers, surround sound speaker systems and connectors, rackmounts, and other accessories.

TECALC 087 4 Units**Technical Calculations****Lecture:** 72 contact hours

This course covers practical use and applications of technical calculations on topics such as electrical measurements, temperature, volume, weight, and positioning including the number line, working with dedicated formula, applied problems, geometric principles, graphs, right triangles, coordinate systems, and scientific notation.

Associate Degree Applicable

Avionics Technology Associate of Science Degree

To graduate with a specialization in Avionics Technology, students must complete all requirements for the certificate with a grade of C or better plus the general breadth requirements for the Associate Degree (minimum total = 60 units).

Code	Title	Units
Required Courses		
TECALC 087	Technical Calculations	4
ELECTR 110	Direct Current Circuit Analysis	3
ELECTR 111	Direct Current Circuit Laboratory	1
ELECTR 115	Alternating Current Circuit Analysis	3
ELECTR 116	Alternating Current Circuit Laboratory	1
ELECTR 155	Electronic Drawing and Assembly	3
ELECTR 230	Semiconductor Devices	3
ELECTR 235	Solid State Circuit Analysis	4
ELECTR 265	Digital Logic Design	4
ELECTR 266	Microprocessor Technology With Assembly Language	4
ELECTR 270	Linear Integrated Circuit Analysis	4
AERO 021	Aviation Fundamentals ¹	3
AERO 040	Instrument Ground School	4
ELECTR 220C	F.C.C. Rules and Regulations	3
ELECTR 250C	Radio Transmitters, Receivers and Antennas	4
ELECTR 257C	Navigation and Communication Systems	4
Total Units		52

¹ AERO 052 & AERO 053 can be substituted for AERO 021 & AERO 040

Students working for a degree or certificate in Electricity/ Electronics must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select. The programs offered will prepare student with the fundamentals of electronics technology by offering courses common to electricity, communications and computers, and power technology. This preparation can be for transfer to the university or for further study in areas of communications, computers, electricity, and aircraft electronics. It can also prepare students for entry-level positions in electronics maintenance, installation, field service, networking, and apprenticeship in the field of electronics technology. Students should have normal color vision, and hand/eye coordination.

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Be prepared to transfer a core curriculum to an accredited, 4-year college or university with junior class standing in electronics technology or a related major
- Select and operate electronic test equipment during troubleshooting and repair operations, with an emphasis on safety in use and accuracy in results
- Analyze, interpret, and trace digital logic diagrams used in signal tracing of complex navigational and airborne communications circuits
- Effectively communicate with and advise customers and co-workers, both written and orally, regarding the progress of and decisions made concerning test and repair procedures
- Sit for industry/Federal-style examinations on the theory and procedures of avionics technology

Avionics Technology Certificate of Achievement

This certificate is designed to provide students with the fundamentals of electronics technology as it applies to avionics. The curriculum prepares students for entry-level positions in aircraft electricity, maintenance, installation, field service, networking, and apprenticeship in the field of avionics technology.

Code	Title	Units
Required Courses		
TECALC 087	Technical Calculations	4
ELECTR 110	Direct Current Circuit Analysis	3
ELECTR 111	Direct Current Circuit Laboratory	1
ELECTR 115	Alternating Current Circuit Analysis	3
ELECTR 116	Alternating Current Circuit Laboratory	1
ELECTR 155	Electronic Drawing and Assembly	3
ELECTR 230	Semiconductor Devices	3
ELECTR 235	Solid State Circuit Analysis	4
ELECTR 265	Digital Logic Design	4
ELECTR 266	Microprocessor Technology With Assembly Language	4
ELECTR 270	Linear Integrated Circuit Analysis	4
AERO 021	Aviation Fundamentals ¹	3
AERO 040	Instrument Ground School	4
ELECTR 220C	F.C.C. Rules and Regulations	3
ELECTR 250C	Radio Transmitters, Receivers and Antennas	4
ELECTR 257C	Navigation and Communication Systems	4
Total Units		52

¹ AERO 052 & AERO 053 can be substituted for AERO 021 & AERO 040.

Students working for a degree or certificate in Electricity/ Electronics must have a basic knowledge of arithmetic, reading and writing in order

to learn and work in the occupations they select. The programs offered will prepare student with the fundamentals of electronics technology by offering courses common to electricity, communications and computers, and power technology. This preparation can be for transfer to the university or for further study in areas of communications, computers, electricity, and aircraft electronics. It can also prepare students for entry-level positions in electronics maintenance, installation, field service, networking, and apprenticeship in the field of electronics technology. Students should have normal color vision, and hand/eye coordination.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Be prepared to transfer a core curriculum to an accredited, 4-year college or university with junior class standing in electronics technology or a related major
- Select and operate electronic test equipment during troubleshooting and repair operations, with an emphasis on safety in use and accuracy in results
- Analyze, interpret, and trace digital logic diagrams used in signal tracing of complex navigational and airborne communications circuits
- Effectively communicate with and advise customers and co-workers, both written and orally, regarding the progress of and decisions made concerning test and repair procedures
- Sit for industry/Federal-style examinations on the theory and procedures of avionics technology

Communication Engineering Technology Associate of Science Degree

To graduate with a specialization in Communication Engineering Technology, students must complete all requirements for the certificate with a grade of C or better plus the general breadth requirements for the Associate Degree (minimum total = 60 units).

Code	Title	Units
Required Courses		
TECALC 087	Technical Calculations	4
ELECTR 110	Direct Current Circuit Analysis	3
ELECTR 111	Direct Current Circuit Laboratory	1
ELECTR 115	Alternating Current Circuit Analysis	3
ELECTR 116	Alternating Current Circuit Laboratory	1
ELECTR 155	Electronic Drawing and Assembly	3
ELECTR 230	Semiconductor Devices	3
ELECTR 235	Solid State Circuit Analysis	4
ELECTR 265	Digital Logic Design	4
ELECTR 266	Microprocessor Technology With Assembly Language	4
ELECTR 270	Linear Integrated Circuit Analysis	4
ELECTR 220C	F.C.C. Rules and Regulations	3
ELECTR 250C	Radio Transmitters, Receivers and Antennas	4
ELECTR 255C	Telephone and Data Networking	4
Total Units		45

Students working for a degree or certificate in Electricity/ Electronics must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select. The programs offered will prepare student with the fundamentals of electronics technology by offering courses common to electricity, communications and computers, and power technology. This preparation can be for transfer to the university or for further study in areas of communications, computers, electricity, and aircraft electronics. It can also prepare students for entry-level positions in electronics maintenance, installation, field service, networking, and apprenticeship in the field of electronics technology. Students should have normal color vision, and hand/eye coordination.

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Be prepared to transfer to an accredited, 4-year college or university with junior class standing in electronics technology or a related major
- Select and operate electronic test equipment during troubleshooting and repair operations, with an emphasis on safety in use and accuracy in results
- Analyze, interpret, and trace digital logic diagrams used in signal tracing of complex communications systems
- Effectively communicate with and advise customers and co-workers, both written and orally, regarding the progress of and decisions made concerning test and repair procedures
- Sit for industry/Federal-style examinations on the theory and procedures of electronic communications technology

Communication Engineering Technology Certificate of Achievement

This certificate is designed to provide students with the fundamentals of electronics technology as it applies to communication engineering. The curriculum prepares students for entry-level positions in electronics communication maintenance, installation, field service, networking, and apprenticeship in the field of communication engineering technology.

Code	Title	Units
Required Courses		
TECALC 087	Technical Calculations	4
ELECTR 110	Direct Current Circuit Analysis	3
ELECTR 111	Direct Current Circuit Laboratory	1
ELECTR 115	Alternating Current Circuit Analysis	3
ELECTR 116	Alternating Current Circuit Laboratory	1
ELECTR 155	Electronic Drawing and Assembly	3
ELECTR 230	Semiconductor Devices	3

ELECTR 235	Solid State Circuit Analysis	4
ELECTR 265	Digital Logic Design	4
ELECTR 266	Microprocessor Technology With Assembly Language	4
ELECTR 270	Linear Integrated Circuit Analysis	4
ELECTR 220C	F.C.C. Rules and Regulations	3
ELECTR 250C	Radio Transmitters, Receivers and Antennas	4
ELECTR 255C	Telephone and Data Networking	4
Total Units		45

Students working for a degree or certificate in Electricity/ Electronics must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select. The programs offered will prepare student with the fundamentals of electronics technology by offering courses common to electricity, communications and computers, and power technology. This preparation can be for transfer to the university or for further study in areas of communications, computers, electricity, and aircraft electronics. It can also prepare students for entry-level positions in electronics maintenance, installation, field service, networking, and apprenticeship in the field of electronics technology. Students should have normal color vision, and hand/eye coordination.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Be prepared to transfer to an accredited, 4-year college or university with junior class standing in electronics technology or a related major
- Select and operate electronic test equipment during troubleshooting and repair operations, with an emphasis on safety in use and accuracy in results
- Analyze, interpret, and trace digital logic diagrams used in signal tracing of complex communications systems
- Effectively communicate with and advise customers and co-workers, both written and orally, regarding the progress of and decisions made concerning test and repair procedures
- Sit for industry/Federal-style examinations on the theory and procedures of electronic communications technology

Computer Engineering Technology Associate of Science Degree

To graduate with a specialization in Computer Engineering Technology, students must complete all requirements for the certificate with a grade of C or better plus the general breadth requirements for the Associate Degree (minimum total = 60 units).

Code	Title	Units
Required Courses		
ELECTR 110	Direct Current Circuit Analysis	3
ELECTR 111	Direct Current Circuit Laboratory	1
ELECTR 115	Alternating Current Circuit Analysis	3
ELECTR 116	Alternating Current Circuit Laboratory	1
ELECTR 155	Electronic Drawing and Assembly	3
ELECTR 230	Semiconductor Devices	3
ELECTR 235	Solid State Circuit Analysis	4
ELECTR 265	Digital Logic Design	4

ELECTR 266	Microprocessor Technology With Assembly Language	4
ELECTR 270	Linear Integrated Circuit Analysis	4
ELECTR 280C	Computer Operation and Maintenance	4
TECALC 087	Technical Calculations	4
Total Units		38

Students working for a degree or certificate in Electricity/ Electronics must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select. The programs offered will prepare student with the fundamentals of electronics technology by offering courses common to electricity, communications and computers, and power technology. This preparation can be for transfer to the university or for further study in areas of communications, computers, electricity, and aircraft electronics. It can also prepare students for entry-level positions in electronics maintenance, installation, field service, networking, and apprenticeship in the field of electronics technology. Students should have normal color vision, and hand/eye coordination.

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Be prepared to transfer a core curriculum to an accredited, 4-year college or university with junior class standing in electronics technology or a related major
- Select and operate electronic test equipment during troubleshooting and repair operations, with an emphasis on safety in use and accuracy in results
- Analyze, interpret, and trace digital logic diagrams used in signal tracing of complex digital computer circuits
- Effectively communicate with and advise customers and co-workers, both written and orally, regarding the progress of and decisions made concerning test and repair procedures
- Sit for industry/Federal-style examinations on the theory and procedures of computer technology

Computer Engineering Technology Certificate of Achievement

This certificate is designed to provide students with the fundamentals of electronics technology as it applies to computer engineering. The curriculum prepares students for entry-level positions in computer maintenance, installation, field service, networking, and apprenticeship in the field of computer engineering technology. Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

Code	Title	Units
Required Courses		
ELECTR 110	Direct Current Circuit Analysis	3
ELECTR 111	Direct Current Circuit Laboratory	1
ELECTR 115	Alternating Current Circuit Analysis	3
ELECTR 116	Alternating Current Circuit Laboratory	1
ELECTR 155	Electronic Drawing and Assembly	3
ELECTR 230	Semiconductor Devices	3
ELECTR 235	Solid State Circuit Analysis	4
ELECTR 265	Digital Logic Design	4
ELECTR 266	Microprocessor Technology With Assembly Language	4
ELECTR 270	Linear Integrated Circuit Analysis	4
ELECTR 280C	Computer Operation and Maintenance	4
TECALC 087	Technical Calculations	4
Total Units		38

Students working for a degree or certificate in Electricity/ Electronics must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select. The programs offered will prepare student with the fundamentals of electronics technology by offering courses common to electricity, communications and computers, and power technology. This preparation can be for transfer to the university or for further study in areas of communications, computers, electricity, and aircraft electronics. It can also prepare students for entry-level positions in electronics maintenance, installation, field service, networking, and apprenticeship in the field of electronics technology. Students should have normal color vision, and hand/eye coordination.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Select and operate electronic test equipment during troubleshooting and repair operations, with an emphasis on safety in use and accuracy in results
- Analyze, interpret, and trace digital logic diagrams used in signal tracing of complex digital computer circuits
- Effectively communicate with and advise customers and co-workers, both written and orally, regarding the progress of and decisions made concerning test and repair procedures
- Sit for industry/Federal-style examinations on the theory and procedures of computer technology

Electric Power Technology Associate of Science Degree

To graduate with a specialization in Electric Power Technology, students must complete all requirements for the certificate with a grade of C or better plus the general breadth requirements for the Associate Degree (minimum total = 60 units).

Code	Title	Units
Required Courses		
TECALC 087	Technical Calculations	4
ELECTR 110	Direct Current Circuit Analysis	3

ELECTR 111	Direct Current Circuit Laboratory	1
ELECTR 115	Alternating Current Circuit Analysis	3
ELECTR 116	Alternating Current Circuit Laboratory	1
ELECTR 155	Electronic Drawing and Assembly	3
ELECTR 230	Semiconductor Devices	3
ELECTR 235	Solid State Circuit Analysis	4
ELECTR 265	Digital Logic Design	4
ELECTR 266	Microprocessor Technology With Assembly Language	4
ELECTR 270	Linear Integrated Circuit Analysis	4
ELEC 216C	Introduction to Industrial Electricity	4
ELEC 217C	Industrial Electricity	4
ELEC 218C	Controlling Industrial Electricity	4
Total Units		46

Students working for a degree or certificate in Electricity/ Electronics must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select. The programs offered will prepare student with the fundamentals of electronics technology by offering courses common to electricity, communications and computers, and power technology. This preparation can be for transfer to the university or for further study in areas of communications, computers, electricity, and aircraft electronics. It can also prepare students for entry-level positions in electronics maintenance, installation, field service, networking, and apprenticeship in the field of electronics technology. Students should have normal color vision, and hand/eye coordination.

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Prepare to transfer to an accredited, 4-year college or university with junior class standing in electronics technology or a related major
- Select and operate electronic test equipment during troubleshooting and repair operations, with an emphasis on safety in use and accuracy in results
- Analyze, interpret, diagram the information in the correct sections of the National Electrical Code and install electrical wiring and components
- Effectively communicate with and advise customers and co-workers, both written and orally, regarding the progress of and decisions made concerning test and repair procedures
- Sit for industry/Federal-style examinations on the theory and procedures of electronic technology

Electric Power Technology Certificate of Achievement

This certificate is designed to provide students with the fundamentals of electronics technology as it applies to industrial electricity. The curriculum prepares students for entry-level positions in electrical maintenance, installation, field service, networking, and apprenticeship in the field of electric power technology.

Code	Title	Units
Required Courses		
TECALC 087	Technical Calculations	4
ELECTR 110	Direct Current Circuit Analysis	3
ELECTR 111	Direct Current Circuit Laboratory	1
ELECTR 115	Alternating Current Circuit Analysis	3
ELECTR 116	Alternating Current Circuit Laboratory	1
ELECTR 155	Electronic Drawing and Assembly	3
ELECTR 230	Semiconductor Devices	3
ELECTR 235	Solid State Circuit Analysis	4
ELECTR 265	Digital Logic Design	4
ELECTR 266	Microprocessor Technology With Assembly Language	4
ELECTR 270	Linear Integrated Circuit Analysis	4
ELEC 216C	Introduction to Industrial Electricity	4
ELEC 217C	Industrial Electricity	4
ELEC 218C	Controlling Industrial Electricity	4
Total Units		46

Students working for a degree or certificate in Electricity/ Electronics must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select. The programs offered will prepare student with the fundamentals of electronics technology by offering courses common to electricity, communications and computers, and power technology. This preparation can be for transfer to the university or for further study in areas of communications, computers, electricity, and aircraft electronics. It can also prepare students for entry-level positions in electronics maintenance, installation, field service, networking, and apprenticeship in the field of electronics technology. Students should have normal color vision, and hand/eye coordination.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Be prepared to transfer to an accredited, 4-year college or university with junior class standing in electronics technology or a related major
- Select and operate electronic test equipment during troubleshooting and repair operations, with an emphasis on safety in use and accuracy in results
- Analyze, interpret, diagram the information in the correct sections of the National Electrical Code and install electrical wiring and components
- Effectively communicate with and advise customers and co-workers, both written and orally, regarding the progress of and decisions made concerning test and repair procedures
- Sit for industry/Federal-style examinations on the theory and procedures of electronic technology

Electronics Technology Associate of Science Degree

To graduate with a specialization in Electronics Technology, students must complete all requirements for the certificate with a grade of C or better plus the general breadth requirements for the Associate Degree (minimum total = 60 units).

Code	Title	Units
Required Courses		
TECALC 087	Technical Calculations	4
ELECTR 110	Direct Current Circuit Analysis	3
ELECTR 111	Direct Current Circuit Laboratory	1
ELECTR 115	Alternating Current Circuit Analysis	3
ELECTR 116	Alternating Current Circuit Laboratory	1
ELECTR 155	Electronic Drawing and Assembly	3
ELECTR 230	Semiconductor Devices	3
ELECTR 235	Solid State Circuit Analysis	4
ELECTR 265	Digital Logic Design	4
ELECTR 266	Microprocessor Technology With Assembly Language	4
ELECTR 270	Linear Integrated Circuit Analysis	4
Total Units		34

Students working for a degree or certificate in Electricity/ Electronics must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select. The programs offered will prepare student with the fundamentals of electronics technology by offering courses common to electricity, communications and computers, and power technology. This preparation can be for transfer to the university or for further study in areas of communications, computers, electricity, and aircraft electronics. It can also prepare students for entry-level positions in electronics maintenance, installation, field service, networking, and apprenticeship in the field of electronics technology. Students should have normal color vision, and hand/eye coordination.

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Be prepared to transfer to an accredited, 4-year college or university with junior class standing in electronics technology or a related major
- Select and operate electronic test equipment during troubleshooting and repair operations, with an emphasis on safety in use and accuracy in results
- Analyze, interpret, and trace digital logic diagrams used in signal tracing of complex digital circuits

- Effectively communicate with and advise customers and co-workers, both written and orally, regarding the progress of and decisions made concerning test and repair procedures
- Sit for industry/Federal-style examinations on the theory and procedures of electronic technology

Electronics Technology Certificate of Achievement

This certificate is designed to provide students with the fundamentals of electronics technology. It also prepares students for entry-level positions in electronics maintenance, installation, field service, networking, and apprenticeship in the field of electronics technology.

Code	Title	Units
Required Courses		
TECALC 087	Technical Calculations	4
ELECTR 110	Direct Current Circuit Analysis	3
ELECTR 111	Direct Current Circuit Laboratory	1
ELECTR 115	Alternating Current Circuit Analysis	3
ELECTR 116	Alternating Current Circuit Laboratory	1
ELECTR 155	Electronic Drawing and Assembly	3
ELECTR 230	Semiconductor Devices	3
ELECTR 235	Solid State Circuit Analysis	4
ELECTR 265	Digital Logic Design	4
ELECTR 266	Microprocessor Technology With Assembly Language	4
ELECTR 270	Linear Integrated Circuit Analysis	4
Total Units		34

Students working for a degree or certificate in Electricity/ Electronics must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select. The programs offered will prepare student with the fundamentals of electronics technology by offering courses common to electricity, communications and computers, and power technology. This preparation can be for transfer to the university or for further study in areas of communications, computers, electricity, and aircraft electronics. It can also prepare students for entry-level positions in electronics maintenance, installation, field service, networking, and apprenticeship in the field of electronics technology. Students should have normal color vision, and hand/eye coordination.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Be prepared to transfer to an accredited, 4-year college or university with junior class standing in electronics technology or a related major
- Select and operate electronic test equipment during troubleshooting and repair operations, with an emphasis on safety in use and accuracy in results
- Analyze, interpret, and trace digital logic diagrams used in signal tracing of complex digital circuits
- Effectively communicate with and advise customers and co-workers, both written and orally, regarding the progress of and decisions made concerning test and repair procedures

- Sit for industry/Federal-style examinations on the theory and procedures of electronic technology

General Electrician Certificate of Achievement

This certificate will allow an 'Electrician Trainee' to sit for the California State General Electrician Certification examination. These courses also satisfy the continuing education requirement every three years for certified electricians.

Code	Title	Units
Required Courses		
OSHA 030	Federal OSHA Outreach: Construction Industry Safety	2
ELEC 216C	Introduction to Industrial Electricity	4
ELEC 217C	Industrial Electricity	4
ELEC 218C	Controlling Industrial Electricity	4
ELECTR 110	Direct Current Circuit Analysis	3
ELECTR 111	Direct Current Circuit Laboratory	1
ELECTR 115	Alternating Current Circuit Analysis	3
ELECTR 116	Alternating Current Circuit Laboratory	1
ELECTR 230	Semiconductor Devices	3
ELECTR 235	Solid State Circuit Analysis	4
ELECTR 265	Digital Logic Design	4
INSPEC 014	Advanced Construction Inspection: National Electrical Code (NEC)	3
KIN 231	First Aid and CPR	3
TECALC 087	Technical Calculations	4
INSPEC 029	Community Relations for Building Personnel	3
Total Units		46

Students working for a degree or certificate in Electricity/ Electronics must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select. The programs offered will prepare student with the fundamentals of electronics technology by offering courses common to electricity, communications and computers, and power technology. This preparation can be for transfer to the university or for further study in areas of communications, computers, electricity, and aircraft electronics. It can also prepare students for entry-level positions in electronics maintenance, installation, field service, networking, and apprenticeship in the field of electronics technology. Students should have normal color vision, and hand/eye coordination.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Be eligible to sit for California State General Electrician Certification examination on the theory and procedures of electrical technology
- Select and operate electronic test equipment during troubleshooting and repair operations, with an emphasis on safety in use and accuracy in results
- Select the proper section of the National Electrical Code and electrical blueprints, to properly inspect, and estimate the costs associated with for residential and commercial wiring

- Analyze, interpret, and trace digital logic diagrams used in signal tracing of complex digital circuits
- Effectively communicate with and advise customers and co-workers, both written and orally, regarding the progress of and decisions made concerning test and repair procedures

Green Technician Certificate of Career Preparation

This program is designed to provide students with fundamentals of renewable energy systems and related sustainability concepts that will prepare them for entry level jobs. DC and AC electrical theory, solar power systems design, installation and maintenance issues, along with OSHA construction safety are covered. Entry-Level certification into the Solar Photovoltaic Industry.

Code	Title	Units
Required Courses		
ELECTR 110	Direct Current Circuit Analysis	3
ELECTR 111	Direct Current Circuit Laboratory	1
ELECTR 115	Alternating Current Circuit Analysis	3
ELECTR 116	Alternating Current Circuit Laboratory	1
ELEC 091	Fundamentals of Solar Energy	3
OSHA 030	Federal OSHA Outreach: Construction Industry Safety	2
Total Units		13

Students working for a degree or certificate in Electricity/ Electronics must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select. The programs offered will prepare student with the fundamentals of electronics technology by offering courses common to electricity, communications and computers, and power technology. This preparation can be for transfer to the university or for further study in areas of communications, computers, electricity, and aircraft electronics. It can also prepare students for entry-level positions in electronics maintenance, installation, field service, networking, and apprenticeship in the field of electronics technology. Students should have normal color vision, and hand/eye coordination.

Program Learning Outcomes

At the completion of this program, students will be able to:

- Sit for industry/Federal-style examinations on the theory and procedures of Solar Technology, such as NABCEP
- Use quantitative measurement of electrical circuit parameters utilized in Solar photovoltaic systems design and implementation; assemble and test, both direct current (DC), and alternating current (AC), series, parallel, and combination series parallel circuits
- Effectively communicate with and advise customers and co-workers, both written and orally, regarding the design and installation of Solar systems based on field parameters
- Select and operate electronic test equipment during troubleshooting and repair operations, with an emphasis on safety in use and accuracy in results
- Analyze, interpret, and blueprints and diagrams used in the Solar system installation field

Industrial Automation Certificate of Achievement

Students will be prepared for high paying careers in the many existing and future automated manufacturing plants, smart warehouses, and high technology distribution and material handling centers, usually located near major railroad hubs, airports, and interstate freeways. Nearly every product in the supply chain is processed through a complex network of automated material handling, transportation, and logistics centers. This certificate program focuses on the electronic technology responsible for monitoring, controlling, and actuating automated processes involved with all phases of material processing, packaging, and handling systems. Students will be equipped with technical information on mechanical, electrical, analog and digital electronics, Programmable Logic Controllers (PLCs), Programmable Automation Controllers (PACs), Supervisory Control and Data Acquisition (SCADA) systems, fluid power systems, computer hardware and software, networking, interfacing, robotics, sensors and actuators typically used in automated equipment.

Code	Title	Units
Required Courses		
OSHA 035	Federal OSHA Outreach: General Industry Safety	2
ELECTR 110	Direct Current Circuit Analysis	3
ELECTR 111	Direct Current Circuit Laboratory	1
ELECTR 115	Alternating Current Circuit Analysis	3
ELECTR 116	Alternating Current Circuit Laboratory	1
ELEC 101	Supply Chain Technology	3
ELEC 215C	Electrical Control of Hydraulic-Pneumatic Systems	4
ELEC 217C	Industrial Electricity	4
ELEC 218C	Controlling Industrial Electricity	4
ELEC 219C	Industrial Electronic Systems Controls II	4
ELECTR 265	Digital Logic Design	4
Total Units		33

Students working for a degree or certificate in Electricity/ Electronics must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select. The programs offered will prepare student with the fundamentals of electronics technology by offering courses common to electricity, communications and computers, and power technology. This preparation can be for transfer to the university or for further study in areas of communications, computers, electricity, and aircraft electronics. It can also prepare students for entry-level positions in electronics maintenance, installation, field service, networking, and apprenticeship in the field of electronics technology. Students should have normal color vision, and hand/eye coordination.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Create Radio Frequency identification (RFID) and optical bar-code reading and communication systems
- Use PLCs, VFDs, and HMIs in the design, configuration and control of conveyor belt systems for the supply chain industry
- Compose written documents on occupation safety and health in general industry, demonstrating a high level of competency

- Use quantitative measurement of electrical circuit parameters; assemble and test, both direct current (DC), and alternating current (AC), series, parallel, and combination series parallel circuits
- Deliver formal presentations as required by technicians working the field of supply chain technology, on a variety of subjects, to a wide range of audiences

Smart Systems Automation Technology Certificate of Completion

This noncredit certificate is designed to provide students with the fundamentals of smart devices as they apply to smart systems automation technology. The curriculum prepares students for entry-level positions in computer networking, security and surveillance, audio-video entertainment systems, and environmental controls.

Code	Title	Units
Required Courses		
ELECTR 620	Introduction to Computer Networking	96-108
ELECTR 621	Security, Alarm, and Surveillance Systems	96-108
ELECTR 622	Smart Environmental Controls	96-108
ELECTR 623	Audio-Visual Entertainment Systems	96-108
Total Hours		384-432

Program Learning Outcomes

At the completion of this program, students will be able to:

- Select and operate electronic test equipment during troubleshooting and repair operations, with emphasis on safety in use and accuracy in results
- Analyze, interpret, and trace wiring or schematic diagrams used in installing and troubleshooting smart devices connected to the Internet of Things (IoT)
- Effectively communicate with and advise customers and co-workers, both written and orally, regarding the progress of and decisions made concerning test and repair procedures
- Sit for industry/federal-style examinations on the theory and procedures of smart systems automation technology

Zero Net Energy Certificate of Achievement

The Zero Net Energy (ZNE) Certificate is designed to offer the students a broad overview into the energy conservation industry and includes cross-disciplinary courses in Energy Systems, Heating Ventilation and Air Conditioning, Architecture, Computer Information Systems, and Building Inspection Technology. Completion of the ZNE Certificate is especially beneficial for support staff currently working in the energy sector, such as an Energy Auditor, Energy Consultant, ZNE Technician, Green HVAC Technician, Facility Management, Construction Management and Solar Residential Technician.

Code	Title	Units
Required Courses		
CIT 101	Introduction to Computer Literacy	3
ELEC 050	Zero Net Energy Building Science	4
ELEC 021	Blueprint Reading for Building Energy Systems	3

INSPEC 017	California State Energy Regulations for Residential Buildings	3
TECALC 087	Technical Calculations	4
WKEXP 099	General Work Experience	1-4
Total Units		18-21

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Apply critical thinking skills to execute daily duties in their area of employment
- Display the skills and aptitude necessary to pass (Industry Recognized Credentials) certification exams in their field
- Exhibit effective written, oral communication and interpersonal skills

Engineering

Engineers are employed in research, development, design, construction, manufacturing and operations of technical projects related to almost all aspects of modern life, including the environment, communications, transportation, food production, medicine and health, space exploration, housing and energy. Students planning to transfer to a four-year university and major in Engineering should consult with a counselor regarding the transfer process and lower division requirements.

Contact Information

Division: Science (PS - 148)

Division Phone Number: (909) 384-8645

Faculty Chair: Anna Tolstova (%20atolstov@sbccd.edu), M.S.

ENGR 100 1 Unit

Engineering Career Exploration

Lecture: 18 contact hours

Advisory: Eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course introduces students to the major fields of specialization within engineering and engineering technology professions. This course gives students a broad understanding of various career opportunities and the specialized demands and rewards of each field.

Associate Degree Applicable

Transfers to both UC/CSU

ENGR 265 3 Units

Engineering Mechanics - Statistics

Lecture: 54 contact hours

Prerequisite: PHYSIC 200

This is a foundation course in many branches of engineering. Some of the topics covered are two and three-dimensional equilibrium of particles and rigid bodies, analysis of frames, machines, trusses, non-coplanar force systems, and the principles of friction.

Associate Degree Applicable

Transfers to both UC/CSU

English

The English Department offers courses in composition, literature, journalism, creative writing, English as a second language, and basic skills. These courses are designed to help students develop skills in reading perceptively, thinking critically, and writing effectively. The Writing Center, located in Liberal Arts (LA) 201, offers supplemental support to assist students in developing these skills. In order to be placed into the proper level of composition class, all new students are required to take the Guided Self-Placement and meet with a counselor prior to enrollment. A schedule of Guided Self-Placement test dates is available in the Assessment Center. Self-Placement results, including multiple measures and high school information, are used to place students in the appropriate level English course. Students planning to transfer to a four-year institution and major in English should consult with a counselor regarding the transfer process and lower division requirements.

Recommended Placement for English

High School Performance Metric for English	Recommended Placement for English
H.S. G.P.A. \geq 2.6 Self-reported high school G.P.A.	Transfer-Level English Composition No additional academic or concurrent support required.
H.S. G.P.A. 1.9 - 2.6 Self-reported high school G.P.A.	Transfer-Level English Composition Additional academic concurrent support ENGL 086 is REQUIRED.
H.S. G.P.A. $<$ 1.9 Self-reported high school G.P.A.	Transfer-Level English Composition Additional academic concurrent support ENGL 087 is REQUIRED

Advanced English Courses

Code	Title	Units
ENGL 122	Journalism Production: Introduction	3
ENGL 123	Journalism Production: Intermediate	3
ENGL 125	Literary Magazine Production	3
ENGL 140	Exploring the World of Science Fiction	3
ENGL 141	Mystery and Detective Fiction	3
ENGL 151	Freshman Composition and Literature	3
ENGL 153	Literature and Film	3
ENGL 155	Children's Literature	3
ENGL 161	Women Writers	3
ENGL 163	Chicano Literature	3
ENGL 165	African-American Literature	3
ENGL 175	The Literature and Religion of the Bible	3
ENGL 232	Creative Writing	3
ENGL 260	American Literature to Mid 19th Century	3
ENGL 261	American Literature From 1865 to Present	3
ENGL 270	English Literature: Middle Ages to 18th Century	3
ENGL 270H	English Literature: Middle Ages to 18th Century - Honors	3
ENGL 271	English Literature: 18th Century to Present	3
ENGL 271H	English Literature: 18th Century to Present - Honors	3
ENGL 275	Shakespeare	3
ENGL 280	World Literature: to 17th Century	3
ENGL 281	World Literature: 17th Century To Present	3

Advanced English courses: Journalism, Creative Writing, and Literature Courses ENGL 122 through ENGL 281 have a prerequisite of ENGL 101 or ENGL 101H.

Contact Information

Division: Arts and Humanities (NH - 223)

Division Phone Number: (909) 384-8633

Faculty Chair: Paula Ferri-Milligan (%20pferri@sbccd.edu), Ed.D.

- English Associate of Arts Transfer Degree (p. 168)

ENGL 015 4 Units

Preparation for College Writing

Lecture: 72 contact hours

Prerequisite: ENGL 914 or eligibility for ENGL 015 as determined through the SBVC assessment process.

This is a writing course designed to prepare students for ENGL 101. The primary focus is on the development of the paragraph and short essay. The course includes a review of grammar, sentence structure, and punctuation.

Associate Degree Applicable

ENGL 032 3 Units

Creative Writing

Lecture: 54 contact hours

This is an introductory course in creative writing, with an emphasis on poetry and fiction. Students will learn and practice creative writing by producing their own work in the genres studied, reading and learning from the work of established and peer writers, and participating in the workshop method. ENGL 032 is the non-transfer equivalent of ENGL 232. A student taking ENGL 032 may not earn credit for ENGL 232.

Associate Degree Applicable

ENGL 055 3 Units

Children's Literature

Lecture: 54 contact hours

This survey course will have students read representative works of children's literature, will emphasize the development of close reading skills, and will promote an appreciation for the aesthetic qualities of literature written for children. ENGL 055 is the non-transfer equivalent of ENGL 155. A student taking ENGL 055 may not earn credit for ENGL 155.

Associate Degree Applicable

ENGL 061 3 Units

Women Writers

Lecture: 54 contact hours

This course is a survey of poetry and prose by prominent women writers that explores historical and contemporary issues in women's lives. ENGL 061 is the non-transfer equivalent of ENGL 161. A student taking ENGL 061 may not earn credit for ENGL 161.

Associate Degree Applicable

ENGL 063 3 Units

Chicano Literature

Lecture: 54 contact hours

This course covers a representative survey of Chicano literature, including novels, drama, poetry, and essays which focus on the cultural, social, and political developments and themes that shape and characterize Chicano culture and literary expression. ENGL 063 is the non-transfer equivalent of ENGL 163. A student taking ENGL 063 may not earn credit for ENGL 163.

Associate Degree Applicable

ENGL 065 3 Units**African-American Literature****Lecture:** 54 contact hours

This course is a comprehensive examination of African American literature, including prose, poetry, and fiction, from the early oral tradition to present. The course also incorporates understanding of the cultural trends and time periods and their relationships to literature. ENGL 065 is the non-transfer equivalent of ENGL 165. A student taking ENGL 065 may not earn credit for ENGL 165.

Associate Degree Applicable**ENGL 070 3 Units****English Literature: Middle Ages to 18th Century****Lecture:** 54 contact hours

Prerequisite: ENGL 914 or eligibility for ENGL 015 as determined by SBVC assessment process.

This course surveys English literature to the last quarter of the 18th Century including coverage of all significant literary types in the development of English literature from the Middle Ages to the late 18th century. ENGL 070 is the non-transfer equivalent of ENGL 170. A student taking ENGL 070 may not earn credit for ENGL 170.

Associate Degree Applicable**ENGL 071 3 Units****English Literature: 18th Century to Present****Lecture:** 54 contact hours

Prerequisite: ENGL 914 or eligibility for ENGL 015 as determined by SBVC assessment process.

This course surveys English literature to the last quarter of the 18th Century including coverage of all significant literary types in the development of English literature from the Middle Ages to the late 18th century. ENGL 071 is the non-transfer equivalent of ENGL 171. A student taking ENGL 071 may not earn credit for ENGL 171.

Associate Degree Applicable**ENGL 075 3 Units****Literature and Religion of the Bible****Lecture:** 54 contact hours

This course covers The English Bible as literature and as religion including an examination of the types of literature found in the Bible, the historical and religious context in which the literature was developed and an extensive reading of the two testaments. ENGL 075 is the non-transfer equivalent of ENGL 175. A student taking ENGL 075 may not earn credit for ENGL 175.

Associate Degree Applicable**ENGL 077 3 Units****Shakespeare****Lecture:** 54 contact hours

Prerequisite: ENGL 914 or eligibility for ENGL 015 as determined by SBVC assessment process.

This course includes a critical analysis of a selection of Shakespeare's plays representative of his literary development. Lectures, films, and recordings will be used to examine life and the theater in Elizabethan England. ENGL 077 is the non-transfer equivalent of ENGL 275. A student taking ENGL 077 may not earn credit for ENGL 275.

Associate Degree Applicable**ENGL 080 3 Units****World Literature: To 17th Century****Lecture:** 54 contact hours

This is an introduction to world literature from the beginning to the mid-17th Century, including coverage of selected samples of literature within the context of the culture and time in which they were written. ENGL 080 is the non-transfer equivalent of ENGL 280. A student taking ENGL 080 may not earn credit for ENGL 280.

Associate Degree Applicable**ENGL 081 3 Units****World Literature: 17th Century to Present****Lecture:** 54 contact hours

This is an introduction to world literature from the 17th century to the present, including coverage of selected samples of literature within the context of the culture and time in which they were written. ENGL 081 is the non-transfer equivalent of ENGL 281. A student taking ENGL 081 may not earn credit for ENGL 281.

Associate Degree Applicable**ENGL 086 1 Unit****Strategies for College Composition****Lecture:** 18 contact hours

Prerequisite: Please refer to your Assessment printout for the correct course.

Corequisite: ENGL 101|

This course provides support for English 101, including strategies for college level reading, writing and critical thinking. This course is taken as pass/no pass only.

Associate Degree Applicable**ENGL 087 2 Units****Fundamentals for College Composition****Lecture:** 36 contact hours**Corequisite:** ENGL 101

This course provides intensive support for English 101, including fundamentals for successful college level reading, writing and critical thinking. This course is offered as pass/no pass only.

Associate Degree Applicable**ENGL 101 4 Units****Freshman Composition****Lecture:** 72 contact hours

Prerequisite: Eligibility for ENGL 101 or ENGL 101H as determined through the SBVC assessment process.

Corequisite: Students who require supplemental support to succeed in ENGL 101 may be required to take ENGL 086 or ENGL 087 depending on assessment.

This is a writing course emphasizing expository and argumentative essays, which helps students develop writing skills necessary for other degree applicable courses. It includes reading and analysis of various forms of writing, instruction in library research and preparation of documented research papers.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 100

ENGL 101H 4 Units**Freshman Composition-Honors****Lecture:** 72 contact hours**Prerequisite:** Eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This is a writing course which emphasizes expository and argumentative essays, which helps students develop writing skills necessary for other degree applicable courses. It includes reading and analysis of various forms of writing, instruction in library research and preparation of documented research papers. This course is intended for students in the Honors Program, but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 100**ENGL 102 4 Units****Intermediate Composition and Critical Thinking****Lecture:** 72 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course provides further work in argumentative and critical writing, critical thinking, analysis of non-fiction texts (and a work of literature), research and documentation.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 105**ENGL 102H 4 Units****Intermediate Composition and Critical Thinking - Honors****Lecture:** 72 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course provides further work in argumentative and critical writing, critical thinking, analysis of non-fiction texts (and at least 2 works of literature), research and documentation. This course is intended for students in the Honors Program but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 105**ENGL 122 3 Units****Journalism Production: Introduction****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course provides an introduction to gathering, synthesizing/organizing and writing news in journalistic style across multiple platforms resulting in the production of the campus student newsmagazine. Topics include the role of the journalist and related legal and ethical issues. Students will report and write based on their original interviews and research to produce news content. Experiences may include covering speeches, meetings and other campus events, writing under deadline, and use of AP Style.

Associate Degree Applicable**Transfers to CSU only****C-ID:** JOUR 130**ENGL 123 3 Units****Journalism Production: Intermediate****Lecture:** 54 contact hours**Prerequisite:** ENGL 122

This course provides further instruction on gathering, synthesizing/organizing and writing news in journalistic style across multiple platforms resulting in the production of the campus newspaper as well as development of editorial leadership skills. Topics include the role of the journalist and related legal and ethical issues. Students will report and write based on their original interviews and research to produce news content. Experiences may include covering speeches, meetings and other campus events, writing under deadline, and use of AP Style.

Associate Degree Applicable**Transfers to CSU only****ENGL 125 3 Units****Literary Magazine Production****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course covers the theory and practice of producing a literary magazine including instruction on all relevant aspects of editing, design and layout. Students in this class are responsible for production of the college literary magazine.

Associate Degree Applicable**Transfers to CSU only****ENGL 140 3 Units****Exploring the World of Science Fiction****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course is a survey of science fiction genre from the late 19th Century to the present. Students read, analyze, and discuss major themes, genres (short story, novels, drama, and poetry), media (radio, film, tv, internet), and the function of science fiction as a literary form that reflects human concern for solving or escaping problems in an increasingly technological culture and age.

Associate Degree Applicable**Transfers to both UC/CSU****ENGL 141 3 Units****Mystery and Detective Fiction****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course will introduce the student to mystery and detective fiction as a literary genre and as popular literature, exploring literary elements such as plot, sub-plot, suspense, setting, back story, procedural clues, hook, twist, ethical concerns of investigative methods, and civic life. Discussions of various styles and themes will engage students in critical thinking applied to historical era, multicultural contexts, and gender roles in mystery writing.

Associate Degree Applicable**Transfers to both UC/CSU****ENGL 151 3 Units****Freshman Composition and Literature****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course includes the study of representative works of fiction, poetry, and drama, including an understanding of their cultural, historical and aesthetic contexts, as well as an emphasis on the fundamental principles of literacy criticism and interpretation, including student writing based on critical reading.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 120

ENGL 151H 3 Units**Freshman Composition and Literature - Honors****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course includes the study of representative works of fiction, poetry, and drama, including an understanding of their cultural, historical and aesthetic contexts, as well as an emphasis on the fundamental principles of literacy criticism and interpretation, including student writing based on critical reading. This course is intended for students in the Honors Program but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 120**ENGL 153 3 Units****Literature and Film****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course studies literature that has been adapted into film. Students will read short stories, novels, and plays; view the film(s) adapted from each literary work; and write critical and analytic essays about the literature, the films, and their interplay.

Associate Degree Applicable**Transfers to both UC/CSU****ENGL 155 3 Units****Children's Literature****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This survey course will have students read representative works of children's literature, will emphasize the development of close reading skills, and will promote an appreciation for the aesthetic qualities of literature written for children. ENGL 155 is the transferable equivalent of ENGL 055. A student taking ENGL 155 may not earn credit for ENGL 055.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 180**ENGL 161 3 Units****Women Writers****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course is a survey of poetry and prose written by prominent women writers that explores historical and contemporary issues in women's lives. ENGL 161 is the transferable equivalent of ENGL 061. A student taking ENGL 161 may not earn credit for ENGL 061.

Associate Degree Applicable**Transfers to both UC/CSU****ENGL 163 3 Units****Chicano Literature****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course covers a representative survey of Chicano literature, including novels, drama, poetry, and essays which focus on the cultural, social, and political developments and themes that shape and characterize Chicano culture and literary expression. ENGL 163 is the transferable equivalent of ENGL 063. A student taking ENGL 163 may not earn credit for ENGL 063.

Associate Degree Applicable**Transfers to both UC/CSU****ENGL 165 3 Units****African-American Literature****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course is a comprehensive examination of African American literature, including prose, poetry, and fiction, from the early oral tradition to present. The course also incorporates understanding of the cultural trends and time periods and their relationships to literature. ENGL 165 is the transferable equivalent of ENGL 065. A student taking ENGL 165 may not earn credit for ENGL 065.

Associate Degree Applicable**Transfers to both UC/CSU****ENGL 175 3 Units****The Literature and Religion of the Bible****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course covers The English Bible as literature and as religion including an examination of the types of literature found in the Bible, the historical and religious context in which the literature was developed and an extensive reading of the two testaments. This course is also offered as RELIG 175. ENGL 175 is the transferable equivalent of ENGL 075. A student taking ENGL 175 may not earn credit for ENGL 075.

Associate Degree Applicable**Transfers to both UC/CSU****ENGL 222 1-3 Units****Independent Study in English Literature****Lab:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

Students with previous course work in English may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of literature. This independent study would be appropriate for students wanting further work in literary studies including English Literature, World Literature, American Literature, Major Authors or other Special Genres or Topics, or Literary Theory. Prior to registration, a written contract must be prepared jointly by the instructor and the student.

Associate Degree Applicable**Transfers to CSU, Limited to UC, See Counselor for Additional Information****ENGL 223 1-3 Units****Independent Study in English: Writing****DIR:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

Students with previous course work in English may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of writing. This independent study would be appropriate for students wanting further work and practice in journalism or other forms of non-fiction writing, creative writing, etc. Prior to registration, a written contract must be prepared jointly by the instructor and the student.

Associate Degree Applicable**Transfers to CSU, Limited to UC, See Counselor for Additional Information**

ENGL 224 1-3 Units**Independent Study in English: Production****DIR:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

Students with previous course work in English may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of the production of work in print or other text-based media. This independent study would be appropriate for students wanting further work and practice in print publication (print newspaper, magazine or journal production, etc.) or publication for the web (web-based magazine, newspaper, or journal). Prior to registration, a written contract must be prepared jointly by the instructor and the student.

Associate Degree Applicable**Transfers to CSU, Limited to UC, See Counselor for Additional Information****ENGL 232 3 Units****Creative Writing****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This is an introductory course in creative writing, with an emphasis in poetry and fiction. Students will learn and practice creative writing by producing their own work in the genres studied, studying and analyzing the work of established and peer writers, and participating in the workshop method. ENGL 232 is the transferable equivalent of ENGL 032. A student taking ENGL 232 may not earn credit for ENGL 032.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 200**ENGL 260 3 Units****American Literature to Mid 19th Century****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course introduces students to American Literary traditions. The course traces the beginnings of the earliest American literary voices up through 1865.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 130**ENGL 261 3 Units****American Literature From 1865 to Present****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course introduces students to American Literary traditions. The course traces American authors from 1865 to present.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 135**ENGL 270 3 Units****English Literature: Middle Ages to 18th Century****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course surveys English literature to the last quarter of the 18th Century including coverage of all significant literary types in the development of English literature from the Middle Ages to the late 18th century. ENGL 270 is the transferable equivalent of ENGL 070. A student taking ENGL 270 may not earn credit for ENGL 070.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 160**ENGL 270H 3 Units****English Literature: Middle Ages to 18th Century - Honors****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course surveys English literature to the last quarter of the 18th Century including coverage of all significant literary types in the development of English literature from the Middle Ages to the late 18th century. This course is intended for students in the Honors Program but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 160**ENGL 271 3 Units****English Literature: 18th Century to Present****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course surveys English literature from the late 18th Century to the present including coverage of all significant literary types. ENGL 271 is the transferable equivalent of ENGL 071. A student taking ENGL 271 may not earn credit for ENGL 071.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 165**ENGL 271H 3 Units****English Literature: 18th Century to Present - Honors****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course surveys English literature from the late 18th Century to the present including coverage of all significant literary types. This course is intended for students in the Honors Program but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 165**ENGL 275 3 Units****Shakespeare****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course includes a critical analysis of a selection of Shakespeare's plays representative of his literary development. Lectures, films, and recordings are used to examine life and theatre in Elizabethan England. ENGL 275 is the transferable equivalent of ENGL 077. A student taking ENGL 275 may not earn credit for ENGL 077.

Associate Degree Applicable**Transfers to both UC/CSU****ENGL 280 3 Units****World Literature: to 17th Century****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course is a comparative study of selected works, in translation and in English, of literature from around the world, including Europe, the Middle East, Asia, and other areas, from antiquity to the mid-17th century, including critical analysis of the culture and time in which they were written. ENGL 280 is the transferable equivalent of ENGL 080. A student taking ENGL 280 may not earn credit for ENGL 080.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 140

ENGL 281 3 Units**World Literature: 17th Century To Present****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course is a comparative study of selected works, in translation and in English, of literature from around the world, including Europe, the Middle East, Asia, and other areas, from the mid-17th century to the present, including critical analysis of the culture and time in which they were written. ENGL 281 is the transferable equivalent of ENGL 081. A student taking ENGL 281 may not earn credit for ENGL 081.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 145**ENGL 615 Noncredit****Preparation and Remediation for English 015****Lecture:** 18 contact hours

This noncredit course is designed to equip students with skills that they can use to be better prepared for the English 015 course and the common final. The primary areas of focus are on the development of reading and test taking skills and strategies, in addition to strategies to effectively address the components of the English 015 common final. This course is a supplement to English 015 and does not serve as a prerequisite for English 101.

ENGL 911 1 Unit**Basic Grammar and Usage Review****Lecture:** 18 contact hours

This course covers a review of basic English grammar and common errors in grammar and usage.

ENGL 914 4 Units**Basic Writing****Lecture:** 72 contact hours

Prerequisite: READ 950 (or eligibility for READ 015) and eligibility for ENGL 914 as determined by the SBVC assessment process or ESL 941 and READ 950 (or eligibility for READ 015) as determined by the SBVC assessment process.

This course is a basic skills writing course that prepares students for ENGL 015. The focus is on the following: reading for comprehension, grammar, punctuation, usage and practice in writing effective sentences, paragraphs and a short essay.

Associate Degree Applicable

English Associate of Arts Transfer Degree

English is the study and production of writing in English, especially literature. The elements and structures of fiction, poetry, drama and the essay are studied. The ethnic, cultural, social, economic and historical foundations of literary works are analyzed as well as their influences on the creation and reception of those works. Finally, there is a strong emphasis in writing for a variety of purposes, audiences, and effects. The study of English prepares a student for further study in Literature, Creative Writing, Journalism and other closely related fields. In addition, the skills and abilities cultivated by the study of English are excellent preparation for any field which requires wide literacy and solid writing ability, including teaching/education, advertising, law, public relations, and work in the media.

Students planning to transfer to a four-year institution and major in English (or associated disciplines such as Comparative Literature, Journalism or Creative Writing) should consult with a counselor regarding the transfer

process and lower division requirements because additional courses may be required at some institutions or they may require you to take specific courses. In addition, the department recommends that students take at least 2 semesters of a foreign language as many 4-year institutions have foreign language requirements for their BA in English.

Completion of CSU GE-Breadth or IGETC for CSU is required in addition to the major requirements listed below.

The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an "associate degree for transfer", a newly established variation of the associate degrees traditionally offered at a California community college. The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

To earn this AA-T degree, students must meet the following requirements:

- completion of the following major requirements with grades of C or better
- completion of a minimum of 60 CSU transferable semester units with a grade point average of at least 2.0; and
- certified completion of the CSU General Education Breadth requirements (CSU GE), which requires a minimum of 39 units. Completing courses prior to transfer that satisfy the U.S. History, Constitution and American Ideals requirement as part of CSU GE is highly recommended.

Students planning to transfer to a four-year institution and major in English should consult with a counselor regarding the transfer process and lower division requirements.

Code	Title	Units
Required Core Courses (7 Units)		
ENGL 102 or ENGL 102H	Intermediate Composition and Critical Thinking Intermediate Composition and Critical Thinking - Honors	4
ENGL 151 or ENGL 151H	Freshman Composition and Literature ¹ Freshman Composition and Literature - Honors	3
List A - Select two of the following:		6
ENGL 260	American Literature to Mid 19th Century	3
ENGL 261	American Literature From 1865 to Present	3
ENGL 270 or ENGL 270H	English Literature: Middle Ages to 18th Century ² English Literature: Middle Ages to 18th Century - Honors	3
ENGL 271 or ENGL 271H	English Literature: 18th Century to Present ² English Literature: 18th Century to Present - Honors	3

ENGL 280	World Literature: to 17th Century	3
ENGL 281	World Literature: 17th Century To Present	3
List B - Select one of the following or any course from Lists A or B not used above:		
ENGL 163	Chicano Literature	3
ENGL 165	African-American Literature	3
ENGL 232	Creative Writing	3
List C - Select one of the following or any course not used from Lists A or B:		
ANTHRO 125	Language and Culture	3
ENGL 122	Journalism Production: Introduction	3
ENGL 123	Journalism Production: Intermediate	3
ENGL 125	Literary Magazine Production	3
ENGL 140	Exploring the World of Science Fiction	3
ENGL 141	Mystery and Detective Fiction	3
ENGL 153	Literature and Film	3
ENGL 155	Children's Literature	3
ENGL 161	Women Writers	3
ENGL 175	The Literature and Religion of the Bible	3
or RELIG 175	The Literature and Religion of the Bible	3
ENGL 275	Shakespeare	3

² The ENGL 270/ENGL 271 sequence is required by CSU San Bernardino for those transferring as English majors.

Code	Title	Units
Major Total		19
General Education (CSU-GE or IGETC) Units		37-39
Elective (CSU Transferable) Units		8-13
Total Units		60

See Section on Degree, Certificate, and Transfer Information for additional information on the Associate Degrees for Transfer.

To earn an SBVC Associate Degree for Transfer (AA-T or AS-T) students must complete one of the following general education patterns:

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Write clear, organized, well-supported prose for a number of purposes and audiences, including research essays that demonstrate mastery of the conventions of MLA citation format
- Identify the elements of fiction, poetry, drama and the essay analyze and evaluate their employment in a wide range of literary works
- Appreciate the ethnic, cultural, social economic and historical foundation of literary works and understand and evaluate their influences on the writing and reception of those works

English as a Second Language (ESL)

Courses in English as a second language are designed for individuals learning English as a foreign language. The various courses cover writing, conversation, spelling and vocabulary in the English language.

Sequence of ESL Courses at SBVC

Both San Bernardino Valley College and San Bernardino Adult School use CASAS to assess programs approximately every 70 instructional hours. Students move through the noncredit curriculum based on assessment and instructor recommendation. Please contact a counselor for additional information.

ESL Sequence Chart (http://catalog.valleycollege.edu/degree-certificate-program-index/english-second-language-esl/ESL_Sequence_Chart_20_21.pdf)

Contact Information

Division: Arts and Humanities (NH - 223)

Division Phone Number: (909) 384-8633

Faculty Chair: Paula Ferri-Milligan (%20pferri@sbccd.edu), Ed.D.

- ESL Integrated Skills - Beginning Certificate of Completion (p. 170)

ESL 601 Noncredit

ESL Beginning Level 1 - Introduction to Basic English Literacy

Lecture: 72 contact hours

This noncredit course is designed to introduce low-beginning English language learners to basic English letter-sound correspondence, vocabulary, and sentence patterns. Students will start using English to speak about themselves, their families, and their community. In addition, students will learn to read and complete simple forms.

ESL 602 Noncredit

ESL Beginning Level 2 - English at Home and School

Lecture: 72 contact hours

Advisory: ESL 601 or eligibility as determined through the SBVC assessment process or by advisement.

This noncredit course is designed to prepare low-beginning English language learners with vocabulary and sentence structure to communicate in social and academic settings. Students will learn to give and respond to directions, as well as to speak about home, classroom routines, and community life by using a variety of sentence patterns. In addition, students will learn basic note-taking skills.

ESL 603 Noncredit

ESL Beginning Level 3 - English for Work and Leisure

Lecture: 72 contact hours

Advisory: ESL 602 or eligibility as determined through the SBVC assessment process or by advisement.

This noncredit course is designed to prepare intermediate-beginning English language learners to use a variety of English structures and vocabulary for work and leisure. Students will learn appropriate linguistic behaviors with regards to the setting and time of the occasion being discussed.

ESL 604 Noncredit**ESL Beginning Level 4 - English for Work and Education****Lecture:** 72 contact hours**Advisory:** ESL 603 or eligibility as determined through the SBVC assessment process or by advisement.

This noncredit course is designed to prepare high-beginning English language learners to use Standard English for job interviews, and in conversations at work and in educational settings. Students will begin learning aspects of composition. In addition, students will learn effective note-taking skills.

ESL 620 Noncredit**English Pronunciation****Lecture:** 54 contact hours

This noncredit course is designed to help English language learners to improve their pronunciation skills in English. The class will focus on Standard English pronunciation, word stress, intonation differentiation, and vocabulary building.

ESL 650 Noncredit**Citizenship Preparation - Part 1: Basic English Listening, Speaking, Reading, and Writing****Lecture:** 72 contact hours**Advisory:** ESL 604 or eligibility as determined by the SBVC assessment process or by advisement.

This noncredit course is designed to prepare prospective candidates for the English portion of the U.S. citizenship process. Students will learn skills to improve their basic listening, speaking, reading, and writing abilities through practice and drills.

ESL 651 Noncredit**Citizenship Preparation - Part 2: Civic Principles and Fundamental U.S. History****Lecture:** 72 contact hours**Advisory:** ESL 940 or eligibility as determined by the SBVC assessment process or by advisement.

This noncredit course is designed to prepare prospective candidates for the civics portion of the U.S. citizenship process. Students will learn the rights and responsibilities of being a U.S. citizen, in addition to learning how to complete all required immigration forms and practicing the USCIS Citizenship Test by becoming familiar with U.S. history.

ESL 907 3 Units**Basic Conversational English****Lecture:** 54 contact hours

This course is designed to increase the skills of English language learners in basic conversation, listening and pronunciation of the English language. This course is taught through total English immersion.

ESL 930 4 Units**Composition Based ESL Level 1 - Beginning****Lecture:** 72 contact hours**Advisory:** ESL 604 or eligibility as determined by the SBVC assessment process.

This is the first of a four-course sequence designed to give English language learners a comprehensive understanding of English composition. The focus of this course is on creating effective sentences and paragraphs, including a study of grammar, punctuation and usage. The grammatical emphasis of this course will be on simple present and past tenses. It also has some emphasis on pronunciation, listening and speaking. This course is taught through total English immersion.

ESL 931 4 Units**Composition Based ESL Level 2 - Beginning****Lecture:** 72 contact hours**Prerequisite:** ESL 930 or eligibility as determined through the SBVC assessment process.

This is the second of a four-course sequence designed to give English language learners a comprehensive understanding of English composition. The focus of this course is on creating effective sentences and paragraphs, including a review of grammar, punctuation and usage. The grammatical emphasis of this course will be on present and past progressive tenses, and modal usage. It also has some emphasis on pronunciation, listening and speaking. This course is taught through total English immersion.

ESL 940 4 Units**Composition Based ESL Level 3 - Intermediate****Lecture:** 72 contact hours**Prerequisite:** ESL 931 or eligibility as determined through the SBVC assessment process.

This is the third of a four-course sequence designed to give English language learners a comprehensive understanding of English composition. The focus of this course is on creating effective sentences and paragraphs, including a review of grammar, punctuation and usage. The grammatical emphasis of this course will be on the present perfect, past perfect, and present perfect progressive tenses. This course is taught through total English immersion.

ESL 941 4 Units**Composition Based ESL Level 4 - Advanced****Lecture:** 72 contact hours**Prerequisite:** ESL 940 or eligibility as determined through the SBVC assessment process.

This is the last of a four-course sequence designed to give English language learners a comprehensive understanding of English composition. The focus of this course is on creating effective sentences, paragraphs and essays, including a review of grammar, punctuation and usage. This course is taught through total English immersion.

ESL Integrated Skills - Beginning Certificate of Completion

This noncredit program is designed to prepare beginning English language learners with the fundamental speaking, listening, reading and writing skills of the English language. This program will also prepare students with the necessary skills to be successful in the credit-based ESL (English as a second language) courses.

Code	Title	Units
Required Courses		
ESL 601	ESL Beginning Level 1 - Introduction to Basic English Literacy	64-72
ESL 602	ESL Beginning Level 2 - English at Home and School	64-72
ESL 603	ESL Beginning Level 3 - English for Work and Leisure	64-72
ESL 604	ESL Beginning Level 4 - English for Work and Education	64-72
Total Hours		256-288

Program Learning Outcome

At the completion of this program, students will be able to:

- Gain the English language skills necessary to move successfully through the credit ESL sequence of courses

Environmental Science

Contact Information

Division: Science (PS - 148)

Division Phone Number: (909) 384-8645

Faculty Chairs: Todd Heibel (theibel@sbccd.edu), Ph.D and Matthew Robles (mrobles@sbccd.edu), M.S.

- Environmental Science Associate of Science Degree (p. 171)
- Environmental Science Associate of Science Transfer Degree (p. 172)

ENVT 100 3 Units

Introduction to Environmental Science

Lecture: 54 contact hours

Advisory: ENGL 101 or eligibility for ENGL 101 or ENGL 101H as determined through the SBVC assessment process and MATH 962.

This course is an introduction to environmental issues from a scientific perspective. It focuses on physical, chemical, and biological processes within the Earth system, the interaction between humans and these processes, and the role of science in finding sustainable solutions.

Associate Degree Applicable

Transfers to both UC/CSU

Environmental Science Associate of Science Degree

The goals of the Environmental Science program are to: 1) meet the needs of students who are majoring in one of the diverse fields encompassed by environmental science, and 2) provide options for students fulfilling general education science requirements.

Awareness of the issues of environmental quality is increasingly important in business, industry, and government. The growing human population and increasing consumption of resources are creating unprecedented pressures on our planetary life support systems. Environmental Science Majors need to complete an interdisciplinary set of core requirements that provide a basic understanding of the physical, biological, and social sciences and the relevance of these sciences to environmental processes and issues. In addition, the coursework will prepare students for related baccalaureate majors, including: biology, chemistry, engineering, geography (including emphasis in geographic information systems (GIS)), geology, mathematics, oceanography, and physics. For non-majors, the program's goal is to educate students to make better-informed choices about key environmental and health issues.

Students planning to transfer to a four-year institution and major in Environmental Science should consult with a counselor regarding the transfer process and institution-specific lower-division requirements. In upper division and graduate studies, students majoring in environmental science usually specialize in areas such as environmental toxicology, public health, environmental law, education, environmental economics, soil and water science, restoration ecology, environmental landscaping, environmental management and urban planning, and related careers.

To graduate with a specialization in Environmental Science, students must complete the following required courses plus the general breadth requirements for the Associate Degree (total = 60 units).

Code	Title	Units
Required Courses		
ENVT 100	Introduction to Environmental Science	3
BIOL 205	Cell and Molecular Biology	4
BIOL 206	Organismal Biology	4
CHEM 150	General Chemistry I	5
CHEM 151	General Chemistry II	5
ECON 201	Principles of Microeconomics	3
	or ECON 201H Principles of Microeconomics - Honors	
	or POLIT 100 American Politics	
GEOG 110	Physical Geography	3
MATH 250	Single Variable Calculus I	4
MATH 251	Single Variable Calculus II	4
	Select one of the following:	4
GEOG 111	Physical Geography Laboratory	1
	or GEOG 111H Physical Geography Laboratory - Honors	
GEOL 101	Introduction to Physical Geology	3
GEOL 111	Introduction to Physical Geology Laboratory	1
	Select one of the following Physics course sequences:	
PHYSIC 151	General Physics for the Life Sciences I	8
& PHYSIC 152	and General Physics for the Life Sciences II	
PHYSIC 202	Physics I	12
& PHYSIC 203	and Physics II	
& PHYSIC 204	and Physics III	
	Select two of the following:	3
BIOL 104	Human Ecology	3
BIOL 207	Evolutionary Ecology	4
CHEM 205	Quantitative Chemical Analysis	5
CHEM 212	Organic Chemistry I	4
CHEM 213	Organic Chemistry II	4
GEOG 130	Introduction to Geographic Information Systems (GIS)	3
	or GIS 130 Introduction to Geographic Information Systems (GIS)	
MATH 108	Introduction to Probability and Statistics	4
Total Units		50-59

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Analyze the interaction between natural and social systems and subsequent impacts on sustainable development and environmental policies
- Synthesize the fundamentals of sociology, biology, chemistry, Earth sciences, mathematics, physics, and other social and natural sciences within a framework of human-environment interactions
- Critically interpret and assess environmental news and trends, including green technologies and career opportunities, national and international environmental policies, resource exploitation and conservation, global climate change, sustainable development, and human health

Environmental Science Associate of Science Transfer Degree

The goals of the Environmental Science program are to: 1) meet the needs of students who are majoring in one of the diverse fields encompassed by environmental science, and 2) provide options for students fulfilling general education science requirements.

Awareness of the issues of environmental quality is increasingly important in business, industry, and government. The growing human population and increasing consumption of resources are creating unprecedented pressures on our planetary life support systems. Environmental Science Majors need to complete an interdisciplinary set of core requirements that provide a basic understanding of the physical, biological, and social sciences and the relevance of these sciences to environmental processes and issues. In addition, the coursework will prepare students for related baccalaureate majors, including: biology, chemistry, engineering, geography (including emphasis in geographic information systems (GIS)), geology, mathematics, oceanography, and physics. For non-majors, the program's goal is to educate students to make better-informed choices about key environmental and health issues.

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. To earn this Environmental Science AS-T degree, students must meet the following requirements:

- completion of the following major requirements with grades of C or better;
- completion of a minimum of 60 CSU transferable semester units with a grade point average of a least 2.0; and
- certified completion of the CSU General Education-Breadth (CSU-GE) for STEM or Intersegmental General Education Transfer Curriculum (IGETC-CSU) for STEM, which requires a minimum of 31-33 units.

It is highly recommended that students complete courses that satisfy the U.S. History, Constitution, and American Ideals requirement as part of CSUGE or IGETC before transferring to a CSU.

Students planning to transfer to a four-year institution and major in Environmental Science should consult with a counselor regarding the transfer process and lower division requirements.

Code	Title	Units
Required Courses		
BIOL 205	Cell and Molecular Biology	4
CHEM 150	General Chemistry I	5
CHEM 151	General Chemistry II	5

List A:

ENVT 100	Introduction to Environmental Science	3
MATH 108	Introduction to Probability and Statistics	4
or ECON 208	Business and Economic Statistics	
or PSYCH 105	Statistics for the Behavioral Sciences	
MATH 250	Single Variable Calculus I	4
or MATH 141	Business Calculus	

Select one sequence:

GEOL 101 & GEOL 111	Introduction to Physical Geology and Introduction to Physical Geology Laboratory	4
GEOG 110 & GEOG 111	Physical Geography and Physical Geography Laboratory	1-4
or GEOG 111H	Physical Geography Laboratory - Honors	

List B: Select two to three courses:

ECON 201	Principles of Microeconomics	3
or ECON 201H	Principles of Microeconomics - Honors	
PHYSIC 202 & PHYSIC 203	Physics I and Physics II	8

Code	Title	Units
Major Total		40
Total Units That May Be Double Counted		13
General Education (GE-Breadth or IGETC-CSU for STEM) Units ¹		31-33
Elective (CSU Transferable) Units		0-2
Total Units		60

¹ This AS-T presumes completion of CSU-GE for STEM or IGETC-CSU for STEM, allowing for a completion of 6 units of non-STEM GE work after transfer.

See Section on Degree, Certificate, and Transfer Information for additional information on the Associate Degrees for Transfer.

To earn an SBVC Associate Degree for Transfer (AA-T or AS-T) students must complete one of the following general education patterns:

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Transfer to an accredited institution as a junior with a major in Environmental Studies/Sciences
- Analyze the interaction between natural and social systems and subsequent impacts on sustainable development and environmental policies
- Synthesize the fundamentals of sociology, biology, chemistry, Earth sciences, mathematics, physics, and other social and natural sciences within a framework of human-environment interactions
- Critically interpret and assess environmental news and trends, including green technologies and career opportunities, national and international environmental policies, resource exploitation and conservation, global climate change, sustainable development, and human health

Film, Television, and Media

The Film, Television, and Media department offers a comprehensive instructional program in radio and television broadcasting, digital film production, and digital audio and video production for use in multimedia and Internet applications. The department provides a two-year curriculum for students majoring in the field resulting in the Associate of Arts Degree and/or transfer to a four-year institution and provides elective courses for students interested in related fields such as marketing, journalism, theater arts, multimedia, web page design, and data communications. The instructional program includes internships at local stations and businesses, on-air experience using the facilities of the student radio station KJRP and public television station KVCR-TV, which is licensed to the San Bernardino Community College District.

Contact Information

Division: Arts and Humanities (NH - 223)

Division Phone Number: (909) 384-8633

Faculty Chair: Lucas Cuny (%20lcuny@sbccd.edu), M.F.A.

- Film Associate of Arts Degree (p. 175)
- Film, Television, and Electronic Media Associate of Science Transfer Degree (p. 175)
- Media Production Associate of Arts Degree (p. 176)
- Television Associate of Arts Degree (p. 178)

- Media Development Certificate of Achievement (p. 176)
- Post-Production Certificate of Achievement (p. 177)
- Production Certificate of Achievement (p. 177)
- Social Media Field Production Certificate of Achievement (p. 177)
- Social Media Narrative Production Certificate of Achievement (p. 178)
- Social Media Studio Production Certificate of Achievement (p. 178)

FTVM 098 1-4 Units

Media Arts Work Experience

WRKEX: 300 contact hours

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable

Transfers to CSU only

FTVM 101 3 Units

Introduction to Electronic Media

Lecture: 54 contact hours

Advisory: ENGL 101 or ENGL 101H

This course introduces the history, structure, function, economics, content, and evolution of radio, television, film, the internet, and new media, including traditional and mature formats. The social, political, regulatory, ethical, and occupational impact of electronic media are also studied. (FORMERLY RTVF 100)

Associate Degree Applicable

Transfers to both UC/CSU

FTVM 102 3 Units

Introduction to Media Aesthetics and Cinematic Arts

Lecture: 54 contact hours

Advisory: ENGL 101 or ENGL 101H

This course introduces the close analysis of film and television and examines the broad questions of form and content, aesthetics and meaning, and history and culture. The course also explores the diverse possibilities presented by the cinematic art form through an examination of a wide variety of productions, national cinemas, and film movements. The topics include modes of production, narrative and non-narrative forms, visual design, editing, sound, genre, ideology and critical analysis. (Formerly RTVF 101)

Associate Degree Applicable

Transfers to both UC/CSU

FTVM 110 3 Units

Announcing and Performing in Electronic Media

Lecture: 36 contact hours

Lab: 54 contact hours

This course will give instruction and practice in performing and announcing. Topics include interpretation of copy, news casting, music continuity, interviewing, and the operation of audio equipment while performing. Students will practice commercial material and improvisational announcing. (Formerly RTVF 102)

Associate Degree Applicable

Transfers to CSU only

FTVM 111 3 Units

Introduction to Audio Production

Lecture: 36 contact hours

Lab: 54 contact hours

Advisory: ENGL 101 or ENGL 101H

This course serves as an introduction to the theory and practice of audio production for radio, television, film and digital recording applications. Students will learn the fundamentals of sound design and aesthetics, microphone use, and digital recording equipment. Students gain hands on experience recording, editing, mixing and mastering audio. Upon completion, students will have basic knowledge of applied audio concepts, production workflow, equipment functions, and audio editing software. (Formerly RTVF 120)

Associate Degree Applicable

Transfers to CSU only

FTVM 112 3 Units

Digital Audio Post Production

Lecture: 36 contact hours

Lab: 54 contact hours

Advisory: ENGL 101 or ENGL 101H

This post production course provides specialized training in digital audio work stations and synchronization with the visual image for radio, television, film, and multimedia. Topics include the use of audio post production techniques and the skills necessary to compete in the entertainment, communications and multimedia industries. (Formerly RTVF 121)

Associate Degree Applicable

Transfers to CSU only

FTVM 114 3 Units**Introduction to Digital Video Editing****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This course includes theory and practice in digital video editing techniques including exploring professional video editing programs; basic video and audio editing techniques; use of effects, titles, and graphics; capturing and importing; custom software settings; and exporting to the web, DVD, or other media. (Formerly RTVF 131)

Associate Degree Applicable**Transfers to CSU only****FTVM 120 3 Units****Basic Writing for Broadcasting****Lecture:** 54 contact hours

This course provides instruction and practice in writing and editing for news, commercials, multi-camera and single camera productions, and electronic media. Topics include how to write for speaking, writing objectively, journalism ethics, and legal issues such as libel and right to privacy. (Formerly RTVF 104)

Associate Degree Applicable**Transfers to CSU only****FTVM 121 3 Units****Media Writing****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This is an introductory course in writing for the film and electronic media. The emphasis is on preparing scripts in proper formats, including fundamental technical, conceptual and stylistic issues related to writing fiction and non-fiction scripts for informational and entertainment purposes in film and electronic media. The course also includes a writing evaluation component as a significant part of the course requirement. (Formerly RTVF 106)

Associate Degree Applicable**Transfers to CSU only****FTVM 122 3 Units****Acting and Directing for Television and Film****Lecture:** 36 contact hours**Lab:** 54 contact hours

This course provides instruction and practice in acting and directing for television and film, including voice, poise, and character development. (Formerly RTVF 134)

Associate Degree Applicable**Transfers to both UC/CSU****FTVM 130 3 Units****Survey of TV Studio and Film Production****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This course introduces theory, terminology and operation of a single camera, multi-camera television studio and control room. Topics include studio signal flow, directing, theory and operation of camera and audio equipment, switcher operation, fundamentals of lighting, graphics, video control and video recording and real-time video production. (Formerly RTVF 130)

Associate Degree Applicable**Transfers to CSU only****FTVM 131 3 Units****Lighting and Cinematography****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This course introduces the theory, terminology, and process of motion picture production for film and television. Topics include basic cinematography including the operation, function and creative uses of production, basic scriptwriting, camera operation, shot composition, lighting, and basic sound recording. (Formerly RTVF 132)

Associate Degree Applicable**Transfers to CSU only****FTVM 132 3 Units****Commercial Video Production****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** FTVM 130 or FTVM 131**Advisory:** ENGL 101 or ENGL 101H

This is an introductory course in the theory, terminology, and operation of commercial video production. The topics include composition, camera operation, portable lighting, video recorder, audio control, and editing. The aesthetics and fundamentals of scripting, producing, and directing for broadcast commercial or video to be used in other multimedia platforms. (Formerly RTVF 133)

Associate Degree Applicable**Transfers to CSU only****FTVM 213 3 Units****Radio Station Operations****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** FTVM 111**Advisory:** FTVM 112

This course offers an emphasis on individual and group production of short and long-form radio projects. Projects include remote broadcasts, promotional spots, features, music programming, and news; as well as project development, management and implementation. All student projects will air on the student radio-station KJRP, with some selected projects also airing on our PBS station, KVCR. (Formerly RTVF 220)

Associate Degree Applicable**Transfers to CSU only****FTVM 215 3 Units****Intermediate Digital Video Editing****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** FTVM 114

This intermediate level course provides students with the skills and technologies to edit both fiction and documentary films as well as other forms of visual media. (Formerly RTVF 232)

Associate Degree Applicable**Transfers to CSU only****FTVM 222 1-3 Units****Independent Study in Film, Television, and Media****DIR:** 54 contact hours

Students with previous course work in FTVM may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of FTVM. Prior to registration, a written contract must be prepared. See instructor for details. (Formerly RTVF 222)

Associate Degree Applicable**Transfers to CSU only**

FTVM 233 3 Units**TV Studio Production****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** FTVM 130

This is an in-depth course in techniques of planning, producing, writing, and directing television programs; with an emphasis on polishing technical skills, creativity, and teamwork. Explores advanced video switching techniques, video recording and editing formats, program rundowns, timing, and advanced director's cues. (Formerly RTVF 230)

Associate Degree Applicable**Transfers to CSU only****FTVM 234 3 Units****Intermediate Video Production****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** FTVM 130 or FTVM 131 and FTVM 120 or FTVM 121

In this course students plan, produce, write, shoot, and edit programs that can use either studio production or single camera video production with editing equipment. The course includes hands-on experience using HD and 4K video cameras, location sound, and nonlinear editing equipment. Students will create their own video productions, individually and in teams. (Formerly RTVF 231)

Associate Degree Applicable**Transfers to CSU only****FTVM 235 3 Units****Cinema Production****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** FTVM 130 or FTVM 131 and FTVM 121

This in-depth course covers producing for motion pictures and television. It includes script development, preproduction planning, production concepts, and postproduction editing concepts. (Formerly RTVF 240)

Associate Degree Applicable**Transfers to CSU only**

Film Associate of Arts Degree

The Associates of Art degree in Film is designed to prepare students for entry-level jobs in the Film industry in a variety of areas including narrative, documentary production, writing, pre-production, and editing.

Code	Title	Units
Required Courses		
FTVM 101 or COMMST 13	Introduction to Electronic Media Mass Media and Society	3
FTVM 102	Introduction to Media Aesthetics and Cinematic Arts	3
FTVM 121	Media Writing	3
FTVM 114	Introduction to Digital Video Editing	3
FTVM 235	Cinema Production	3
Select two courses from the list below. Students must have a minimum of 3 units if taking FTVM 098.		
FTVM 098	Media Arts Work Experience	1-4
FTVM 131	Lighting and Cinematography	3
FTVM 132	Commercial Video Production	3
FTVM 122	Acting and Directing for Television and Film	3
Total Units		18-23

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Qualify for entry-level work in film
- Have a portfolio of work to demonstrate entry-level production skills
- Write a resume for entry level employment in film
- Write a short film script for production
- Produce, direct, and edit a short film
- Qualify for transfer to a four year institution

Film, Television, and Electronic Media Associate of Science Transfer Degree

The Radio/Television/Film department provides a comprehensive instructional program in radio and television broadcasting, digital film production, and digital audio and video production for use in broadcasting, cablecasting, multimedia, film production, and Internet applications.

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

To earn a Film, Television, and Electronic Media AS-T degree, students must complete the following Associate Degree for Transfer requirements:

- completion of the following major requirements with grades of C or better;
- completion of a minimum of 60 CSU transferable semester units with a grade point average of at least 2.0; and
- certified completion of the CSU General Education-Breadth (CSU-GE) or Intersegmental General Education Transfer Curriculum (IGETC) for CSU, which requires a minimum of 37-39 units.

It is highly recommended that students complete courses that satisfy the U.S. History, Constitution, and American Ideals requirement as part of CSU-GE or IGETC before transferring to a CSU.

Students planning to transfer to a baccalaureate institution and major in Film, Television, and Electronic Media should consult with a counselor regarding the transfer process and lower division requirements.

Code	Title	Units
Select two required courses		
COMMST 135 or FTVM 101	Mass Media and Society Introduction to Electronic Media	3
FTVM 102	Introduction to Media Aesthetics and Cinematic Arts	3

FTVM 121	Media Writing	3
----------	---------------	---

List A: Select one course from each area

Audio

FTVM 111	Introduction to Audio Production	3
----------	----------------------------------	---

FTVM 213	Radio Station Operations	3
----------	--------------------------	---

Video or Film Production

FTVM 130	Survey of TV Studio and Film Production	3
----------	---	---

FTVM 131	Lighting and Cinematography	3
----------	-----------------------------	---

FTVM 132	Commercial Video Production	3
----------	-----------------------------	---

List B: Select one course not already selected

FTVM 112	Digital Audio Post Production	3
----------	-------------------------------	---

FTVM 234	Intermediate Video Production	3
----------	-------------------------------	---

List C: Select one course not already selected

FTVM 110	Announcing and Performing in Electronic Media	3
----------	---	---

FTVM 114	Introduction to Digital Video Editing	3
----------	---------------------------------------	---

FTVM 120	Basic Writing for Broadcasting	3
----------	--------------------------------	---

FTVM 122	Acting and Directing for Television and Film	3
----------	--	---

FTVM 215	Intermediate Digital Video Editing	3
----------	------------------------------------	---

FTVM 233	TV Studio Production	3
----------	----------------------	---

FTVM 235	Cinema Production	3
----------	-------------------	---

Code	Title	Units
Major Total		18
Total Units That May Be Double Counted		6
General Education (CSU-GE or IGETC) Units		37-39
Elective (CSU Transferable) Units		3-9
Total Units		60

See Section on Degree, Certificate, and Transfer Information for additional information on the Associate Degrees for Transfer.

To earn an SBVC Associate Degree for Transfer (AA-T or AS-T) students must complete one of the following general education patterns:

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Present a clear synopsis of the history of radio, television, or film in the 20th century through the present day
- Apply production principles to the basic operation of the audio console and radio station equipment
- Write a script with an appropriate story line or purpose (e.g., interview script)
- Perform on camera or voice over
- Demonstrate technical ability
- Demonstrate management skills

Media Development Certificate of Achievement

This certificate is designed to prepare students for career paths in story development and production planning for film, tv, and media. The emphasis is in writing and production planning.

Code	Title	Units
Required Courses		
FTVM 102	Introduction to Media Aesthetics and Cinematic Arts	3
FTVM 120	Basic Writing for Broadcasting	3
FTVM 121	Media Writing	3
FTVM 122	Acting and Directing for Television and Film	3
or FTVM 130	Survey of TV Studio and Film Production	
Total Units		12

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

Program Learning Outcomes

At the completion of this program, students will be able to:

- Qualify for entry-level work in media, television, or film development
- Have an online portfolio of work to demonstrate entry-level skills
- Write a resume for entry level employment in media, television, or film development
- Write scripts for all forms of media content
- Produce a concept pitch for a media project
- Qualify for transfer to a four-year institution

Media Production Associate of Arts Degree

The Associate of Art degree in Media Production is designed to prepare students for entry-level jobs in audio production and recording and online media platforms. These areas include public relations, internal communications, podcasts, remote and studio production, writing, pre-production, and editing.

Code	Title	Units
Required Courses		
FTVM 101	Introduction to Electronic Media	3
or COMMST 13	Mass Media and Society	
FTVM 110	Announcing and Performing in Electronic Media	3
FTVM 120	Basic Writing for Broadcasting	3
FTVM 111	Introduction to Audio Production	3
FTVM 112	Digital Audio Post Production	3
FTVM 213	Radio Station Operations	3
FTVM 233	TV Studio Production	3
Select one of the following:		
FTVM 130	Survey of TV Studio and Film Production	3
FTVM 132	Commercial Video Production	3
FTVM 234	Intermediate Video Production	3
Total Units		24

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Qualify for entry-level work in radio
- Have a portfolio of work to demonstrate entry-level production skills
- Write a resume for entry level employment in radio
- Write short news or information scripts for broadcast
- Produce, engineer, and edit and short radio program
- Qualify for transfer to a four year institution

Post-Production Certificate of Achievement

The Post-Production certificate is designed to prepare students for career paths in the post production of film, TV, and electronic media. This certificate covers areas of audio engineering, audio recording, video editing, effects, and color correction.

Code	Title	Units
Required Courses		
FTVM 101	Introduction to Electronic Media	3
FTVM 112	Digital Audio Post Production	3
FTVM 114	Introduction to Digital Video Editing	3
FTVM 213	Radio Station Operations	3
FTVM 215	Intermediate Digital Video Editing	3
Total Units		15

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

Program Learning Outcomes

At the completion of this program, students will be able to:

- Qualify for entry-level work in media, television, or film post-production
- Have a portfolio of work to demonstrate entry-level skills
- Write a resume and complete an online portfolio for entry level employment in media, television, or film production
- Produce film and media projects for a variety of distribution platforms
- Qualify for transfer to a four-year institution

Production Certificate of Achievement

The production certificate is designed to prepare students for career paths in film, tv, and media production. It emphasizes production of short narrative, documentary, and long form media content. Note: Students who wish to pursue the Associates in Media Production the department advises students to take FTVM 102.

Code	Title	Units
Required Courses		
FTVM 111	Introduction to Audio Production	3
FTVM 130	Survey of TV Studio and Film Production	3
FTVM 131	Lighting and Cinematography	3
FTVM 132	Commercial Video Production	3
or FTVM 110	Announcing and Performing in Electronic Media	
FTVM 234	Intermediate Video Production	3
or FTVM 235	Cinema Production	
Total Units		15

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

Program Learning Outcomes

At the completion of this program, students will be able to:

- Qualify for entry-level work in media, television, or film production
- Have an online portfolio of work to demonstrate entry-level skills
- Write a resume for entry level employment in media, television, or film production
- Modify and edit film and media content for distribution
- Qualify for transfer to a four-year institution

Social Media Field Production Certificate of Achievement

This certificate offers students a greater pathway to develop social media video content. Students will conduct field based productions to create content. This certificate will emphasize how to create a brand identity.

Code	Title	Units
Required Courses		
FTVM 102	Introduction to Media Aesthetics and Cinematic Arts	3
FTVM 121	Media Writing	3
FTVM 132	Commercial Video Production	3
FTVM 215	Intermediate Digital Video Editing	3
Total Units		12

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

Program Learning Outcomes

At the completion of this program, students will be able to:

- Qualify for entry-level work in public relations and internal communications where video is required
- Have an online portfolio of work to demonstrate entry-level skills
- Write a resume for entry level employment in media, television, or film development
- Produce short video content that meets the standards of broadcast and social media outlets
- Produce multiple packages of video content for social media and broadcast platforms
- Qualify for transfer to a four-year institution

Social Media Narrative Production Certificate of Achievement

This certificate broadens students' understanding of aesthetics of video, audio, and sound design. It also expands their production skills, and offers for more advanced techniques in post-production.

Code	Title	Units
Required Courses		
FTVM 111	Introduction to Audio Production	3
FTVM 112	Digital Audio Post Production	3
FTVM 213	Radio Station Operations	3
or FTVM 235	Cinema Production	
FTVM 233	TV Studio Production	3
Total Units		12

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

Program Learning Outcomes

At the completion of this program, students will be able to:

- Qualify for entry-level work in public relations and internal communications where video is required
- Have an online portfolio of work to demonstrate entry-level skills
- Write a resume for entry level employment in media, television, or film development
- Produce short video content that meets the standards of broadcast and social media outlets Produce multiple packages of video and audio content for social media and broadcast platforms
- Qualify for transfer to a four-year institution

Social Media Studio Production Certificate of Achievement

This certificate helps to prepare students with the fundamentals of studio production for social media. Students will learn how to produce content utilizing a professional studio environment for a variety of social media platforms.

Code	Title	Units
Required Courses		
FTVM 101	Introduction to Electronic Media	3
FTVM 120	Basic Writing for Broadcasting	3
FTVM 130	Survey of TV Studio and Film Production	3
FTVM 114	Introduction to Digital Video Editing	3
Total Units		12

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

Program Learning Outcomes

At the completion of this program, students will be able to:

- Qualify for entry-level work in public relations and internal communications where video is required
- Have an online portfolio of work to demonstrate entry-level skills

- Write a resume for entry level employment in media, television, or film development
- Produce short video content that meets the standards of broadcast and social media outlets
- Produce a package of video content for at least one project
- Qualify for transfer to a four-year institution

Television Associate of Arts Degree

The Associate in Art degree in TV is designed to prepare students for entry-level jobs in the television and new media industries in a variety of areas including serialized narrative and documentary, remote and studio production, writing, pre-production, and editing.

Code	Title	Units
Required Courses		
FTVM 101	Introduction to Electronic Media	3
or COMMST 13	Mass Media and Society	
FTVM 130	Survey of TV Studio and Film Production	3
FTVM 114	Introduction to Digital Video Editing	3
FTVM 132	Commercial Video Production	3
FTVM 120	Basic Writing for Broadcasting	3
or FTVM 121	Media Writing	
FTVM 131	Lighting and Cinematography	3
or FTVM 233	TV Studio Production	
FTVM 122	Acting and Directing for Television and Film	3
or FTVM 233	TV Studio Production	
or FTVM 234	Intermediate Video Production	
Total Units		21

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Qualify for entry-level work in television
- Have a portfolio of work to demonstrate entry-level production skills
- Write a resume for entry level employment in television
- Write short news or information scripts for broadcast
- Produce, direct, and edit a short video production
- Qualify for transfer to a four year institution

Foods and Nutrition

Contact Information

Division: Applied Technology, Transportation, and Culinary Arts (T - 108)

Division Phone Number: (909) 384-4451

Faculty Chair: Stacy Meyer (smeyer@sbccd.edu), M.A.

- Nutrition and Dietetics Associate of Science Transfer Degree (p. 180)
- Dietetic Aide Certificate of Achievement (p. 179)
- Dietetic Service Supervisor Certificate of Achievement (p. 179)

FN 060 3 Units

Modified Diets

Lecture: 54 contact hours

Prerequisite: FN 162

This course concentrates on the principles of nutrition in order to provide modified diets for individuals with a variety of health care conditions. The focus is on the rationale for the diet and how the modifications improve a person's overall well being.

Associate Degree Applicable

FN 064 3 Units

Nutrition Management

Lecture: 54 contact hours

The focus of this course is on the food service and nutrition management in a health care facility. It includes the development of policies, protocols and procedures for organizing, staffing and training, as well as the promotion of sound financial planning and a cost control system.

Associate Degree Applicable

FN 066 2 Units

Nutrition Care

Lecture: 36 contact hours

Prerequisite: FN 060

This course integrates the academic content and principles of nutrition, diet and menu development with the application of nutrition care, diet evaluation, diet education and dietetic practice.

Associate Degree Applicable

FN 098 1-4 Units

Food and Nutrition Work Experience

WRKEX: 300 contact hours

This course involves supervised training, in the form of on-the-job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. Students work 5-20 hours per week to earn units using the following formula: For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable

FN 162 3 Units

Introduction to Food and Nutrition

Lecture: 54 contact hours

Advisory: ENGL 101 or ENGL 101H

This course introduces the scientific concepts of nutrition related to the function of nutrients in the basic life processes. Emphasis is on individual needs, food sources of nutrients, current nutritional issues and diet analysis.

Associate Degree Applicable

Transfers to both UC/CSU

Dietetic Aide Certificate of Achievement

This program is designed to prepare students for entry level employment in a designated unit or department in health care, community care, school

food service, or health and community directed programs of nutrition services. These services are often provided for the elderly and infants or children.

Code	Title	Units
Required Courses		
CULART 225	Sanitation and Safety	3
CULART 160	Introduction to Foods	3
CULART 240	Procurement, Purchasing and Selection	3
FN 060	Modified Diets	3
FN 064	Nutrition Management	3
FN 162	Introduction to Food and Nutrition	3
FN 098	Food and Nutrition Work Experience	1-4
Total Units		19-22

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Create and design a menu for modified diets
- Prepare and serve food for modified diets
- Interpret and implement directions from dietitians in the provision of food service and nutritional programs

Dietetic Service Supervisor Certificate of Achievement

Students receive education and training for entry level management positions in a food service department within a health care facility, community care or school food service organizations. Supervisors write menus, design diets, teach classes to food service personnel and give instruction on individual diets.

Code	Title	Units
Required Courses		
CULART 225	Sanitation and Safety	3
CULART 160	Introduction to Foods	3
CULART 161	Quantity Food Preparation	3
CULART 201	Management of Human Resources in Hospitality	3
FN 060	Modified Diets	3
FN 064	Nutrition Management	3
FN 066	Nutrition Care	2
FN 098	Food and Nutrition Work Experience	1-4
FN 162	Introduction to Food and Nutrition	3
Total Units		24-27

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Understand hiring practices as it applies to the kitchen area
- Provide nutrition services for schools, training camps, food-service companies, sports/fitness centers and restaurants
- Supervise the production, prepare menus, and conduct training for food service personnel
- Meet the California Department of Health Licensing Requirements for Dietetic Service Supervisor (DSS)

Nutrition and Dietetics Associate of Science Transfer Degree

Nutrition and Dietetics is an interdisciplinary science that studies factors that affect our food choices, the chemical and physiological processes involved in processing and delivering the chemical components of those foods to the body. Students will focus their studies in nutritional science including chemistry and physiology as well as institutional nutrition, community nutrition, food production, management of foodservice operations. The courses within this program are designed to provide students with applicable skills useful in a vast range of occupations.

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. To earn this Nutrition and Dietetics AS-T degree, students must meet the following requirements:

- completion of the following major requirements with grades of C or better;
- completion of a minimum of 60 CSU transferable semester units with a grade point average of a least 2.0; and
- certified completion of the CSU General Education-Breadth (CSUGE) or Intersegmental General Education Transfer Curriculum (IGETC) for CSU, which requires a minimum of 37-39 units.

It is highly recommended that students complete courses that satisfy the U.S. History, Constitution, and American Ideals requirement as part of CSU-GE or IGETC before transferring to a CSU.

Students planning to transfer to a four-year institution and major in Nutrition and Dietetics should consult with a counselor regarding the transfer process and lower division requirements.

Code	Title	Units
Required Courses		
FN 162	Introduction to Food and Nutrition	3
PSYCH 100	General Psychology	3
	or PSYCH 100H General Psychology - Honors	
CHEM 150	General Chemistry I	5
BIOL 270	Microbiology	5
List A: Select two courses		
CHEM 151	General Chemistry II	5
CHEM 212	Organic Chemistry I	4
BIOL 250 & BIOL 251	Human Anatomy and Physiology I and Human Anatomy and Physiology II ¹	4-8
	or BIOL 260 Human Anatomy	
	or BIOL 261 Human Physiology	
MATH 108	Introduction to Probability and Statistics	4
	or PSYCH 105 Statistics for the Behavioral Sciences	

or ECON 208 Business and Economic Statistics

List B: Select one course

CULART 160	Introduction to Foods	3
CHEM 104	Introduction to Organic Chemistry and Biochemistry	4
CHEM 105	Introduction to General, Organic And Biochemistry	5
CHEM 213	Organic Chemistry II	4
MATH 102	College Algebra	4
MATH 103	Plane Trigonometry	4
MATH 151	Precalculus	4

Code	Title	Units
Major Total		27-30
Total Units That May Be Double Counted		7-10
General Education (CSU-GE or IGETC) Units		37-39
Elective (CSU Transferable) Units		0-4
Total Units		60

¹ Credit will only be awarded for one of the following courses/sequence: BIOL 250 and BIOL 251 OR BIOL 260 OR BIOL 261.

See Section on Degree, Certificate, and Transfer Information for additional information on the Associate Degrees for Transfer.

To earn an SBVC Associate Degree for Transfer (AA-T or AS-T) students must complete one of the following general education patterns:

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Outline the overall nutritional needs of children and adults and develop comprehensive food plans to ensure nutritional needs are being met
- Know the sources and functions of macro-nutrients and micro-nutrients
- Compare canned/packaged food products using the information on the Nutrition Facts Panel, ingredient list, and Daily Values
- Analyze a three day dietary intake by food groups and/or by nutrients (RDA) and write recommendations based on the data gleaned from the analysis

French

Impressively, modern French is spoken in 29 countries, covering five continents, an honor shared only with English. A language of philosophy, political revolution, and romance, it is the source of great pride for over 275 million native speakers.

The objectives of French courses are level-appropriate linguistic competence and increased awareness of Francophone culture. Classroom methods incorporate critical thinking and the direct oral approach. Assignments are based on lectures, reading, presentations and individual research. Activities may include: homework, workbooks, journals,

documentaries, movies, presentations, interviews, cultural discussions, etc.

A course of study in College French can add fluency as a valuable skill in some academic, professional, and cultural fields. Students transferring for a Modern Language B.A. should consult a counselor regarding certain process and course requirements. Modern Language graduates enter the fields of education, emergency and health services, social work, hospitality and administrative services, and business and sales. It is a great adjunct for students of Administration of Justice/Police Science, Anthropology, Business, Child Development, History, Pharmacy Technology, and Sociology.

Contact Information

Division: Arts and Humanities (NH - 223)

Division Phone Number: (909) 384-8633

Faculty Chairs: Davena Burns-Peters (dburns@sbccd.edu), B.E. and Nori Sogomonian (nsogomon@sbccd.edu), Ed.D.

FRENCH 101 5 Units

College French I

Lecture: 90 contact hours

In this course students develop the ability to converse, read and write in French. The course includes the study of essentials of pronunciation, vocabulary, idioms and grammatical structures along with an introduction to the culture of French-speaking peoples. This course corresponds to two years of high school study.

Associate Degree Applicable

Transfers to both UC/CSU

FRENCH 102 5 Units

College French II

Lecture: 90 contact hours

Prerequisite: FRENCH 101

This course provides students the opportunity to continue to develop conversational, reading and writing skills in French with special emphasis on past tense verbs, grammar, vocabulary expansion and cultural applications of the French language.

Associate Degree Applicable

Transfers to both UC/CSU

Geographic Information Systems (GIS)

Contact Information

Division: Science (PS - 148)

Division Phone Number: (909) 384-8645

Faculty Chairs: Todd Heibel (theibel@sbccd.edu), Ph.D. and Matthew Robles (mrobles@sbccd.edu), M.S.

- Geographic Information Systems Certificate of Achievement (p. 182)

GIS 039 1 Unit

Global Positioning Systems (GPS) Field Techniques

Lab: 54 contact hours

Advisory: GIS 135

The Global positioning system (GPS) is a satellite-based navigation system comprised of a network of 24 satellites placed into orbit by the US Department of Defense. The aim of this course is to introduce students to the principles of the GPS and to demonstrate its application to GIS. GPS basic components are covered, including satellites, ground control stations, antennae, and receivers. GIS background or work experience in the field are recommended to succeed in this course.

Associate Degree Applicable

GIS 098 1-4 Units

GIS Work Experience

WRKEX: 300 contact hours

Prerequisite/Corequisite: GIS 135

This course involves supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable

GIS 100 3 Units

Map Interpretation and Geospatial Analysis

Lecture: 36 contact hours

Lab: 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This class is an introduction to maps, images and geospatial techniques and technologies. The technologies covered in this course include map and aerial photograph interpretation, tabular data, spatial statistics, cartography, Global Positioning Systems (GPS), Internet mapping, remote sensing and Geographic Information Systems (GIS), all of which aid in data collection, analysis and presentation. This course is also offered as GEOG 100.

Associate Degree Applicable

Transfers to CSU only

C-ID: GEOG 150

GIS 130 3 Units

Introduction to Geographic Information Systems (GIS)

Lecture: 36 contact hours

Lab: 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process and MATH 942.

This course provides an introduction to the fundamentals of Geographic Information Systems (GIS), including the history of automated mapping. The course includes a brief introduction to basic cartographic principles, including map scales, coordinate systems and map projections. GIS hardware and software are explored, as are various applications of GIS technology used in environmental science, business and government. (This course is also offered as GEOG 130).

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: GEOG 155

GIS 133 3 Units**GIS Cartography and Base Map Development****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** GIS 130 or GEOG 130

This course introduces the nature of cartography, standard cartographic conventions, and graphic symbology. Map projections, scale, types of thematic maps, and map accuracy are reviewed. Current industry standard techniques used in GIS base map development are employed, including production and presentation techniques of professional quality maps.

Associate Degree Applicable**Transfers to both UC/CSU****GIS 134 3 Units****Data Acquisition and Management****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** GIS 130

This course addresses the interpretation and understanding of a variety of data formats available in GIS. It introduces the fundamental concepts of primary GIS data creation and discusses quantitative techniques for collection, classification, and management of geographical data.

Associate Degree Applicable**Transfers to CSU only****GIS 135 3 Units****Spatial Analysis with GIS****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** GIS 130

This course is an introduction to spatial analysis with fundamental concepts and analytical procedures used to simplify complex spatial modeling. Specific methods covered include spatial queries, buffering, overlay, interpolation, network analysis, surface analysis, and spatial autocorrelation.

Associate Degree Applicable**Transfers to CSU only****GIS 136 3 Units****GIS for Science, Government, and Business****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** GIS 135

This course introduces students to the various GIS techniques deployed to help government, businesses, and consulting firms to operate in a constantly changing social, physical, economic, and political environment. Government agencies and businesses today face challenges that force them to think beyond traditional, non-geographic approaches to problem solving. Students are introduced to data integration, maps, and GIS outputs.

Associate Degree Applicable**Transfers to CSU only****GIS 137 3 Units****GIS Advanced Applications****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** GIS 135

This course provides hands-on training in advanced applications of GIS using ArcView and ArcInfo, and a review of Visual Basic for Applications (VBA) for customizing ArcGIS. It includes introduction to ArcGIS Server, ArcIMS, and building maps and models for publishing to the web. Students will learn to build web applications with GIS capabilities using Application Service Provider (ASP).

Associate Degree Applicable**Transfers to CSU only****GIS 222 1-3 Units****Independent Study in Geographic Information Systems****DIR:** 54 contact hours**Prerequisite:** GIS 130 or GIS 131

Students with previous course work in GIS may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of GIS. Prior to registration, a written contract must be prepared jointly by the instructor and the student.

Associate Degree Applicable**Transfers to CSU only**

Geographic Information Systems Certificate of Achievement

This certificate is designed to prepare students for entry-level employment in Geographic Information Systems (GIS) and automated mapping technology, utilizing Earth resources data satellites, aerial photography, and computerized data banks of spatial data.

Code	Title	Units
Required Courses		
GIS 130	Introduction to Geographic Information Systems (GIS)	3
or GEOG 130	Introduction to Geographic Information Systems (GIS)	
GIS 133	GIS Cartography and Base Map Development	3
GIS 134	Data Acquisition and Management	3
GIS 135	Spatial Analysis with GIS	3
GIS 136	GIS for Science, Government, and Business	3
or GIS 137	GIS Advanced Applications	
Elective Courses - Select a minimum of four units from the following:		
GEOG 100	Map Interpretation and Geospatial Analysis	3
or GIS 100	Map Interpretation and Geospatial Analysis	
GIS 039	Global Positioning Systems (GPS) Field Techniques	1
GIS 098	GIS Work Experience	1-4
GIS 222	Independent Study in Geographic Information Systems	1-3
Total Units		19

Code	Title	Units
Recommended Courses		
CIT 101	Introduction to Computer Literacy	3

GEOG 110	Physical Geography	3
GEOG 101	Introduction to Physical Geography	3

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

- Entry-level technician in the field of GIS, automated cartography (geoinformatics/geo-visualization), and remote sensing for science, government, and business applications
- Scanning, hand-digitizing, and collecting global positioning systems (GPS) cartographic data as a means to create a base map
- Entering textual and numerical information as a means to create a tabular database
- Integration of raster data layers, including remotely sensed imagery, and vector data layers, including points, lines, and polygons
- Basic GIS map analysis, including descriptive spatial statistics, inferential spatial statistics, and spatial autocorrelation

Geography

The environmental and spatial science of geography examines both physical and cultural landscapes across the Earth. As a spatial science, physical and cultural location and patterns on Earth's surface are central to the study of geography. It includes the study of all forces of nature and the consequences of those forces, with an emphasis on human-environment interactions.

Specifically, geography integrates multiple natural and social sciences and includes: the nature and interactions of the atmosphere and the land, plants and animals, the Earth's waters, weather, climate, the Earth's dynamic surface, landforms and soil, and the way people have inhabited and altered the Earth by creating various forms of agriculture, language, religion, and cities.

Courses in geography fulfill the science and social sciences requirement for the associate degree, prepare the students for majoring in geography at a four-year institution, and supplement other studies for students interested in careers in environmental studies, education, engineering, urban planning, and architecture. Students planning to transfer to a four-year institution as a geography major should consult with a counselor regarding the transfer process and lower division requirements.

Contact Information

Division: Science (PS - 148)

Division Phone Number: (909) 384-8645

Faculty Chairs: Todd Heibel (theibel@sbccd.edu), Ph.D. and Matthew Robles (mrobles@sbccd.edu), M.S.

GEOG 100 3 Units

Map Interpretation and Geospatial Analysis

Lecture: 36 contact hours

Lab: 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This class is an introduction to maps, images and geospatial techniques and technologies. The technologies covered in this course include map and aerial photograph interpretation, tabular data, spatial statistics, cartography, Global Positioning Systems (GPS), Internet mapping, remote sensing and Geographic Information Systems (GIS), all of which aid in data collection, analysis and presentation. (This course is also offered as GIS 100).

Associate Degree Applicable

Transfers to CSU only

C-ID: GEOG 150

GEOG 102 3 Units

Cultural Geography

Lecture: 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process and MATH 952 or MATH 962 or eligibility for MATH 090 as determined by the SBVC assessment process.

This course provides an introduction to the interrelationship between people and the environment. It includes population trends, regional analyses, and livelihood patterns. There is an emphasis on historical development, diffusion of agriculture, languages, religions, and urban development.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: GEOG 120

GEOG 106 3 Units

Geographic Perspectives on the Environment

Lecture: 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process and MATH 952 or MATH 962 or eligibility for MATH 090 as determined by the SBVC assessment process.

This course provides an introductory study of the latest geographic perspectives of critical environmental issues occurring within and across local, regional, national, and global scales. It creates an awareness of the geography of human-environment relationships, in particular how nature and natural resources are defined, contested, distributed, and consumed. Emphasis is on social, political, cultural, psychological, and economic evaluation of natural resources and associated resource management.

Associate Degree Applicable

Transfers to both UC/CSU

-
- Geography Associate of Arts Transfer Degree (p. 185)
 - Geography Associate of Science Degree (p. 186)

GEOG 110 3 Units**Physical Geography****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process. MATH 952 or MATH 962 or eligibility for MATH 090 as determined by the SBVC assessment process.

Within a human-environment framework, students will review basic physical elements of geography, with emphasis on weather, climate, water, soil, landforms, native animal life and natural vegetation, and their interrelationships and patterns of distribution on a worldwide basis. GEOG 111/GEOG 111H is strongly recommended for students who desire to transfer to CSU/UC. It is recommended that students complete GEOG 111/GEOG 111H within three years of completing GEOG 110.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** GEOG 110**GEOG 111 1 Unit****Physical Geography Laboratory****Lab:** 54 contact hours**Prerequisite/Corequisite:** GEOG 110

This is the laboratory companion for the GEOG 110 physical geography lecture course. This course is recommended for students concurrently enrolled in GEOG 110 or who have successfully completed the course within last three years. Students will apply lecture principles to in-class, hands-on, and field exercises. Students should be prepared to participate in one or more off-campus field exercises.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** GEOG 111**GEOG 111H 1 Unit****Physical Geography Laboratory - Honors****Lab:** 54 contact hours**Prerequisite/Corequisite:** GEOG 110

This is the laboratory companion for the GEOG 110 physical geography lecture course. This course is recommended for students concurrently enrolled in GEOG 110 or who have successfully completed the course within last three years. Students will apply lecture principles to in-class, hands-on, and field exercises. Students should be prepared to participate in one or more off-campus field exercises. This course is intended for students in the Honors Program but is open to all students who desire more challenging coursework.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** GEOG 111**GEOG 114 4 Units****Weather and Climate****Lecture:** 54 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process and MATH 952 or MATH 962 or eligibility for MATH 090 as determined by the SBVC assessment process.

This course covers Earth's atmospheric phenomena, with special reference to causes and regional distribution of weather and climate, both past and present. Topics include atmospheric structure and composition, solar radiation and energy balances, temperature, seasonal changes, atmospheric moisture, clouds and fog, precipitation, air pressure, winds, air masses and fronts, cyclones, weather forecasting, climate, and climate change. Emphasis will be given to current environmental topics, including natural and anthropogenic global climate change, air pollution, and global dimming.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** GEOG 130**GEOG 118 3 Units****California Geography****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process. MATH 952 or MATH 962 or eligibility for MATH 090 as determined by the SBVC assessment process.

This course provides a thematic approach to the state's issues, processes and topics relevant to geography including climate, landforms, natural vegetation, water resources, cultural landscape, ethnic diversity, urban and agricultural regions, and the economy. This course explores the physical and human landscapes that have evolved as a result of the human-environment interface.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** GEOG 140**GEOG 120 3 Units****World Regional Geography****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process. MATH 952 or MATH 962 or eligibility for MATH 090 as determined by the SBVC assessment process.

This course provides an introduction to world regional geography, emphasizing the nature of major cultural regions of the world. Through a comprehensive regional analysis, students will learn social structures, religions, languages, political systems, economics, environmental relationships, transportation networks, population dynamics, and urban development across the globe.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** GEOG 125

GEOG 130 3 Units**Introduction to Geographic Information Systems (GIS)****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process and MATH 942.

This course provides an introduction to the fundamentals of Geographic Information Systems (GIS), including the history of automated mapping. The course includes a brief introduction to basic cartographic principles, including map scales, coordinate systems and map projections. GIS hardware and software are explored, as are various applications of GIS technology used in environmental science, business and government. (This course is also offered as GIS 130)

Associate Degree Applicable**Transfers to both UC/CSU****GEOG 222 1-3 Units****Independent Study in Geography****DIR:** 54 contact hours

Students with previous course work in Geography may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of Geography. Prior to registration, a written contract must be prepared jointly by the instructor and the student.

Associate Degree Applicable**Transfers to CSU only**

Geography Associate of Arts Transfer Degree

This Associate in Arts degree in Geography for Transfer (A.A.-T.) provides a path to students who wish to transfer to a CSU campus in Geography and serves the diverse needs of students who wish to obtain a broad and an in-depth understanding of the field. Additionally, this degree allows students to examine the environmental and spatial science of geography including both physical and cultural landscapes across the Earth. Courses in Geography also prepare students interested in careers in environmental studies, education, engineering, urban planning, and architecture.

The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an 'associate degree for transfer', a newly established variation of the associate degrees traditionally offered at a California community college. The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated 'high unit' major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

To earn this AA-T degree, students must meet the following requirements:

- completion of the following major requirements with grades of C or better;
- completion of a minimum of 60 CSU transferable semester units with a grade point average of at least 2.0; and
- certified completion of the CSU General Education-Breadth (CSU-GE) or Intersegmental General Education Transfer Curriculum (IGETC) for CSU, which requires a minimum of 39 units.

It is highly recommend that students complete courses that satisfy the U.S. History, Constitution, and American Ideals requirement as part of CSUGE or IGETC before transferring to a CSU. Students planning to transfer to a four-year institution and major in Geography should consult with a counselor regarding the transfer process and lower division requirements.

Code	Title	Units
Required Courses		
GEOG 102	Cultural Geography	3
GEOG 110	Physical Geography	3
GEOG 111	Physical Geography Laboratory	1
	or GEOG 111H Physical Geography Laboratory - Honors	
List A - Select two of the following:		6-7
GEOG 100	Map Interpretation and Geospatial Analysis	3
	or GIS 100 Map Interpretation and Geospatial Analysis	
GEOG 114	Weather and Climate	4
GEOG 118	California Geography	3
GEOG 120	World Regional Geography	3
GIS 130	Introduction to Geographic Information Systems (GIS)	3
	or GEOG 130 Introduction to Geographic Information Systems (GIS)	
List B - Select six units from the following:		6
ANTHRO 102	Cultural Anthropology	3
ENGL 102	Intermediate Composition and Critical Thinking	4
	or ENGL 102H Intermediate Composition and Critical Thinking - Honors	
GEOL 101	Introduction to Physical Geology	3
GIS 133	GIS Cartography and Base Map Development	3
OCEAN 101 & OCEAN 111	Elements of Oceanography and Elements of Oceanography Laboratory	4
POLIT 141	Introduction to World Politics	3
Code	Title	Units
Major Total		19-22
Total Units That May Be Double Counted		7-16
General Education (CSU-GE or IGETC) Units		39-42
Elective (CSU Transferable) Units		6-20
Total Units		60

See Section on Degree, Certificate, and Transfer Information for additional information on the Associate Degrees for Transfer.

To earn an SBVC Associate Degree for Transfer (AA-T or AS-T) students must complete one of the following general education patterns:

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate expertise in basic cartographic principles, including map location, scale, and distortion
- Integrate fundamentals of sociology, biology, chemistry, physics, geology, and other social and natural sciences within a spatial network of human-environment interactions
- Interpret spatial patterns, as indicated on maps, and utilize tabular and textual information as a means to produce basic maps

Geography Associate of Science Degree

The environmental and spatial science of geography examines both physical and cultural landscapes across the Earth. As a spatial science, physical and cultural location and patterns on Earth's surface are central to the study of geography. It includes the study of all forces of nature and the consequences of those forces, with an emphasis on human-environment interactions.

Specifically, geography integrates multiple natural and social sciences and includes: the nature and interactions of the atmosphere and the land, plants and animals, the Earth's waters, weather, climate, the Earth's dynamic surface, landforms and soil, and the way people have inhabited and altered the Earth by creating various forms of agriculture, language, religion, and cities.

Courses in geography fulfill the science and social sciences requirement for the associate degree, prepare the students for majoring in geography at a four-year institution, and supplement other studies for students interested in careers in environmental studies, education, engineering, urban planning, and architecture. Students planning to transfer to a four-year institution as a geography major should consult with a counselor regarding the transfer process and lower division requirements.

To graduate with a specialization in Geography, students must complete the following required courses plus the general breadth requirements for the Associate Degree (total = 60 units).

Code	Title	Units
Required Courses		
GEOG 102	Cultural Geography	3
GEOG 110	Physical Geography	3
GEOG 111	Physical Geography Laboratory	1
or GEOG 111H	Physical Geography Laboratory - Honors	
Select twelve units from the following:		12
GEOG 100	Map Interpretation and Geospatial Analysis	3
or GIS 100	Map Interpretation and Geospatial Analysis	
GEOG 106	Geographic Perspectives on the Environment	3
GEOG 114	Weather and Climate	4
GEOG 118	California Geography	3
GEOG 120	World Regional Geography	3
GIS 130	Introduction to Geographic Information Systems (GIS)	3
or GEOG 130	Introduction to Geographic Information Systems (GIS)	

GIS 133	GIS Cartography and Base Map Development	3
ECON 208	Business and Economic Statistics	4
or MATH 108	Introduction to Probability and Statistics	
Total Units		19

Code	Title	Units
Recommended Courses		
ECON 100	Introduction to Economics	3
POLIT 100	American Politics	3
POLIT 141	Introduction to World Politics	3
SOC 100	Introduction to Sociology	3
or SOC 100H	Introduction to Sociology - Honors	

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate expertise in basic cartographic principles, including map location, scale, and distortion
- Integrate fundamentals of sociology, biology, chemistry, physics, geology, and other social and natural sciences within a spatial network of human-environment interactions
- Interpret spatial patterns, as indicated on maps, and utilize tabular and textual information as a means to produce basic maps

Geology

The Geology Department offers courses, which examine the earth's history, structure, and economic resources. These courses meet the need for:

1. Students planning to transfer to a four-year institution and prepare for a career in geology or related fields,
2. Students fulfilling the undergraduate general education science requirement, and
3. Students who wish to better understand the planet on which we live.

Students planning to transfer to a four-year institution and major in geology should consult with a counselor regarding the transfer process and lower division requirements.

Contact Information

Division: Science (PS - 148)

Division Phone Number: (909) 384-8645

Faculty Chairs: Todd Heibel (theibel@sbccd.edu), Ph.D. and Matthew Robles (mrobles@sbccd.edu), M.S.

- Geology Associate of Science Degree (p. 188)
- Geology Associate of Science Transfer Degree (p. 189)

GEOL 101 3 Units**Introduction to Physical Geology****Lecture:** 54 contact hours**Prerequisite:** ENGL 914 or eligibility for ENGL 015 as determined through the SBVC assessment process and MATH 942 or eligibility for MATH 952 as determined by the SBVC assessment process.**Advisory:** GEOL 111

This course is an introduction to the study of the Earth, with emphasis on the materials that make up the Earth. It emphasizes Plate Tectonics, the processes that created the continents and the ocean basins, and the processes that change the landscape.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** GEOL 100**GEOL 111 1 Unit****Introduction to Physical Geology Laboratory****Lab:** 54 contact hours**Prerequisite/Corequisite:** GEOL 101

This course is a hands-on introduction to the study of the Earth, with an emphasis on the materials that make up the Earth. Students will participate in one or more field trips. This course is recommended for students concurrently enrolled in GEOL 101 or who have successfully completed GEOL 101 within the last two years.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** GEOL 100L**GEOL 112 4 Units****Historical Geology****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC process and MATH 952 or MATH 962 or eligibility for MATH 090 as determined by the SBVC assessment process.**Advisory:** GEOL 101 and GEOL 111

This course reviews the geologic history of the Earth. Specific topics include the planet's origin and chronological processes that produce major continental and oceanic features, plate tectonics, stratigraphy, interpretation of Earth history from rock and fossil records, and the evolutionary development of plant and animal life. Students should anticipate participating in one or more field trips.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** GEOL 111**GEOL 122 3 Units****Environmental Geology****Lecture:** 54 contact hours**Prerequisite:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC process. MATH 952 or MATH 962 or eligibility for MATH 090 as determined by the SBVC assessment process. |**Advisory:** GEOL 101 or GEOG 110

This course introduces the relationships among geologic processes, natural resources, and the needs of society. Topics include natural hazards such as earthquakes, landslides, and mudflows; mineral and energy resources; and the particular problems associated with urbanization, resource use, and pollution. Students should anticipate participating in one or more field trips.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** GEOL 130**GEOL 170 1 Unit****Geologic History of the Great Basin Province****Lecture:** 9 contact hours**Lab:** 27 contact hours**Prerequisite:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process and MATH 952 or MATH 962 or eligibility for MATH 090 as determined by the SBVC assessment process.**Advisory:** GEOL 101 or GEOG 110 and GEOL 112

Students will discuss and observe the physical and historical geology of the Great Basin Province of the United States, with special emphasis on the geology of Death Valley National Park. Coursework will involve a series of lectures leading to a three to four-day field trip through the Great Basin in and around Death Valley. Students must attend the field trip for the successful completion of the course. The field trips will emphasize the geological features and anthropological history of the Great Basin Province.

Associate Degree Applicable**Transfers to CSU only****GEOL 201 4 Units****Mineralogy****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** GEOL 101 and GEOL 111 and CHEM 101 or CHEM 150 or CHEM 150H.

This course emphasizes the classification and origin of minerals through chemical and physical tests, as well as spectroscopic, optical, and x-ray diffraction analyses. There is an ancillary study of crystal structures with models, natural crystals, and stereographic projections. Students should anticipate participating in one or more field trips.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** GEOL 280**GEOL 222 1-3 Units****Independent Study in Geology****DIR:** 54 contact hours**Prerequisite:** GEOL 101

Students with previous course work in Geology may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of Geology. Prior to registration, a written contract must be prepared jointly by the instructor and the student.

Associate Degree Applicable**Transfers to CSU only**

GEOL 250 3 Units**Geology of California****Lecture:** 54 contact hours**Prerequisite:** ENGL 015 and or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC process. MATH 952 or MATH 962 or eligibility for MATH 090 as determined by the SBVC assessment process.**Advisory:** GEOL 101 or GEOG 110

This course introduces students to the physical and historical geology of California, emphasizing the distinctive geologic features of each of California's twelve geomorphic provinces. Students should anticipate participating in one or more field trips.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** GEOL 200**GEOL 251 3 Units****Geology of the National Parks and Monuments****Lecture:** 54 contact hours**Prerequisite:** ENGL 015 and or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC process; MATH 952 or MATH 962 or eligibility for MATH 090 as determined by the SBVC assessment process.**Advisory:** GEOL 101 or GEOG 110 and GEOL 111 or GEOG 111

This course comprises a study of the geology of selected national parks, monuments, seashores, recreational areas, and other public sites of geologic interest within the United States and its territories. There is an emphasis on the geologic processes that formed these notable sites. Students should anticipate participating in one or more field trips.

Associate Degree Applicable**Transfers to both UC/CSU****GEOL 260 3 Units****Introduction to Field Geology****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** GEOL 101 or GEOL 112 or GEOL 201**Advisory:** GIS 130

This course emphasizes demonstration, discussion, and practice of field investigations of geologic environments. Activities include describing, mapping, and identifying geologic phenomena using the Brunton compass, GPS units, and topographic maps. As this is a hands-on course, students will spend time in the field.

Associate Degree Applicable**Transfers to both UC/CSU****GEOL 270 1 Unit****Geology of the Eastern Sierra Nevada****Lecture:** 9 contact hours**Lab:** 27 contact hours**Prerequisite:** ENGL 015 and or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC process. MATH 952 or MATH 962 or eligibility for MATH 090 as determined by the SBVC assessment process.**Advisory:** GEOL 101 or GEOG 110 or GEOL 112

This course provides a lecture discussion and field observation of the physical and historical geology of the Eastern Sierra Nevada Province. It includes a three to four-day field trip along the boundary between the Sierra Nevada and Basin and Range Provinces. A three to four-day field trip demonstrates volcanic, glacial, and other geologic or economic processes. This field trip is required for the successful completion of the course.

Associate Degree Applicable**Transfers to CSU only**

The Geology Associate of Science Degree equips students with a comprehensive understanding of the Earth's history, structure, economic resources, climate, and environment. This degree program meets student needs for: (1) transfer into a geological, environmental, or Earth sciences program at a four-year institution, (2) preparing for a career within the geological sciences or related fields, including energy exploration and development, environmental protection and remediation, hydrology, meteorology, hazard analysis and mitigation, and secondary and higher education, (3) fulfilling the undergraduate general education science requirement, and (4) a better understanding of the integration of natural systems with human-environment interactions within and upon the Earth.

Students who wish to pursue a degree in geology should take GEOL 101 and 111 before enrolling in additional geology courses. GEOL 101 is a prerequisite for most geology courses offered at San Bernardino Valley College and GEOL 111 will give students a more hands-on, in-depth exposure to the geological and Earth sciences. To graduate with a specialization in geology, students must complete the following required courses plus the general breadth requirements for the Associate Degree (total = 60 units)

Code	Title	Units
Required Courses		
CHEM 150	General Chemistry I	5
CHEM 151	General Chemistry II	5
GEOL 101	Introduction to Physical Geology	3
GEOL 111	Introduction to Physical Geology Laboratory	1
GEOL 112	Historical Geology	4
MATH 250	Single Variable Calculus I	4
MATH 251	Single Variable Calculus II	4
Select two of the following:		2-7
GEOL 122	Environmental Geology	3
GEOL 170	Geologic History of the Great Basin Province	1
GEOL 201	Mineralogy	4
GEOL 250	Geology of California	3
GEOL 251	Geology of the National Parks and Monuments	3
GEOL 260	Introduction to Field Geology	3
GEOL 270	Geology of the Eastern Sierra Nevada	1
Total Units		28-33

Code	Title	Units
Recommended Courses		
BIOL 100	General Biology	4
BIOL 109	History of Life	4
	or BIOL 109H History of Life - Honors	
CS 110	Fundamentals of Computer Science	3
CS 190	Programming in C++	4
GEOG 110	Physical Geography	3
GIS 130	Introduction to Geographic Information Systems (GIS)	3
PHYSIC 151 & PHYSIC 152	General Physics for the Life Sciences I and General Physics for the Life Sciences II	8
PHYSIC 202 & PHYSIC 203 & PHYSIC 204	Physics I and Physics II and Physics III	12

Geology Associate of Science Degree

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Have an understanding of the significance of Plate Tectonics in the overall picture of geologic processes
- Appreciate the magnitude of geologic time in explaining how the earth has changed over the course of geologic history
- Recognize important rock-forming minerals; both as mineral samples and as they appear in common rocks
- Identify the 3 major rock types (Igneous, Sedimentary, and Metamorphic) in field exposures
- Recognize major land form features and explain what geologic processes were involved in their formation
- Be prepared to transfer to an accredited 4-year degree granting institution and compete effectively against 'native' students in the same field of study

Geology Associate of Science Transfer Degree

The Associate of Geology for Transfer (AS-T) in Geology is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus.

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn this Geology AS-T degree students must meet the following requirements:

- completion of the following major requirements with grades of C or better;
- completion of a minimum of 60 CSU transferable semester units with a grade point average of at least 2.0; and
- certified completion of the CSU General Education-Breadth (CSU-GE) or Intersegmental General Education Transfer Curriculum (IGETC) for CSU, which requires a minimum of 39 units.

It is highly recommended that students complete courses that satisfy the U.S. History, Constitution, and American Ideals requirement as part of CSUGE or IGETC before transferring to a CSU.

Students planning to transfer to a four-year institution and major in Geology should consult with a counselor regarding the transfer process and lower division requirements.

Code	Title	Units
Required Courses		
GEOL 101	Introduction to Physical Geology	3
GEOL 111	Introduction to Physical Geology Laboratory	1
GEOL 112	Historical Geology	4
CHEM 150	General Chemistry I	5
CHEM 151	General Chemistry II	5
MATH 250	Single Variable Calculus I	4
MATH 251	Single Variable Calculus II	4

Code	Title	Units
Major Total		26
Total Units That May Be Double Counted		6
General Education (CSU-GE or IGETC) Units		37-39
Elective (CSU Transferable) Units		0-3
Total Units		60

See Section on Degree, Certificate, and Transfer Information for additional information on the Associate Degrees for Transfer.

To earn an SBVC Associate Degree for Transfer (AA-T or AS-T) students must complete one of the following general education patterns:

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Have an understanding of the significance of Plate Tectonics in the overall picture of geologic processes
- Appreciate the magnitude of geologic time in explaining how the earth has changed over the course of geologic history
- Recognize important rock-forming minerals; both as mineral samples and as they appear in common rocks
- Identify the 3 major rock types (Igneous, Sedimentary, and Metamorphic) in field exposures
- Recognize major land form features and explain what geologic processes were involved in their formation
- Be prepared to transfer to an accredited 4-year degree granting institution and compete effectively against 'native' students in the same field of study

Heating, Ventilation, Air Conditioning and Refridgeration (HVAC/R)

The Heating, Ventilation, Air Conditioning and Refrigeration Department prepares students for employment in the field of heating, ventilation, air conditioning and refrigeration. The employment opportunities in this field are expected to increase during the next decade due to the need to increase energy efficiencies of this equipment and incorporating building automation network and programming. Air conditioning in offices, stores, hospitals, schools and other non-residential buildings has become commonplace. Refrigeration is also necessary for the production, storage, and marketing of food and other perishables.

Contact Information

Division: Applied Technology, Transportation, and Culinary Arts (T - 108)

Division Phone Number: (909) 384-4451

Faculty Chair: Tarif (Terry) Halabi (thalabi@sbccd.edu), M.S.E.E.

-
- Heating, Ventilation, Air Conditioning and Refrigeration Associate of Science Degree (p. 192)
 - Heating, Ventilation, Air Conditioning and Refrigeration Certificate of Achievement (p. 192)
 - Refrigeration Service Engineer Society (HVAC) Certificate of Achievement (p. 193)

HVAC/R 001 4 Units

HVAC/R Fundamentals

Lecture: 54 contact hours

Lab: 54 contact hours

This course covers basic principles of refrigeration, refrigerants, refrigeration components and tools; repair and testing of refrigeration units; and basic brazing and soldering.

Associate Degree Applicable

HVAC/R 002 4 Units

Domestic Mechanical Refrigeration

Lecture: 54 contact hours

Lab: 54 contact hours

Prerequisite: HVAC/R 001

This course covers principles of refrigeration compression systems, operations and controls, refrigeration and freezer construction, piping and parts layout. Included in the lab work is troubleshooting and servicing domestic refrigeration units.

Associate Degree Applicable

HVAC/R 003 4 Units

Commercial Mechanical Refrigeration

Lecture: 54 contact hours

Lab: 54 contact hours

Prerequisite: HVAC/R 001

This course covers theory of compressor construction and operation, principles of all types of refrigerant controls and multi-stage control devices pertaining to commercial and industrial refrigeration including practical lab work.

Associate Degree Applicable

HVAC/R 004 4 Units

Electrical Fundamentals for HVAC/R

Lecture: 54 contact hours

Lab: 54 contact hours

This course covers fundamentals of direct and alternating current circuits, test equipment, most common electric motors, wiring and control devices used in modern refrigeration equipment including practical lab work with electrical refrigeration trainers and projects.

Associate Degree Applicable

HVAC/R 005 4 Units

Commercial Electric for HVAC/R

Lecture: 54 contact hours

Lab: 54 contact hours

Prerequisite: HVAC/R 004

This course covers solid state control systems with emphasis on schematic reading and electrical troubleshooting pertaining to refrigeration equipment including practical lab work with electrical refrigeration trainers and projects.

Associate Degree Applicable

HVAC/R 006 4 Units

HVAC/R Air Distribution Systems

Lecture: 54 contact hours

Lab: 54 contact hours

Prerequisite: HVAC/R 001

This course covers theory of multiple-stage systems and multiple-control devices with emphasis on condensing and evaporation equipment, heavy duty piping layout, forced-air heating, ventilation, and air conditioning including lab work with refrigeration trainers and projects.

Associate Degree Applicable

HVAC/R 007 3 Units

Welding for HVAC/R

Lecture: 18 contact hours

Lab: 108 contact hours

This course covers intensive training in soldering, brazing and welding techniques on copper tubing, steel and dissimilar metals using oxyacetylene and special gas torches as practiced in the refrigeration, HVAC industry including blueprint reading and fabrication.

Associate Degree Applicable

HVAC/R 050C 3 Units

Compressors, Condensers and Cooling Towers

Lecture: 54 contact hours

This course provides comprehensive instruction on three major components of refrigeration and air conditioning systems, compressors, condensers, and cooling towers. Students gain knowledge of reciprocating, rotary, screw, centrifugal, and scroll compressors, as well as classifications of compressors (open, semi-hermetic, and hermetic). Air condensers, water-cooled condensers, evaporative condensers and cooling towers, and water treatment are also covered.

Associate Degree Applicable

HVAC/R 051C 3 Units

Heating Fundamentals

Lecture: 54 contact hours

This is one of three courses of a three-semester national training course offered by the Refrigeration Service Engineers Society (RSES) and the North American Technician Excellence (NATE) and is a comprehensive study of compressors, condensers, and accessories. This course is designed to help certify journeymen-level refrigeration technicians and keep their knowledge current.

Associate Degree Applicable

HVAC/R 052C 3 Units

Heating Transfer & Distribution

Lecture: 54 contact hours

This course introduces the basic principles of heat transfer, radiation, conduction, and convection are explained in detail, along with estimating heat loads for residential structures and the principles of air distribution. Included are lessons related to fans and blowers and instruction on fan laws, fan classifications, centrifugal fans, and fan efficiency.

Associate Degree Applicable

HVAC/R 055C 3 Units**Gas Heating****Lecture:** 54 contact hours

This course explores the concepts of heating with gas. Included in the course are lessons related to combustion chemistry, heating fuels, burners and accessories, burners and components (including natural gas-burning and LP gas-equipment), start-up and combustion efficiency testing, gas burner controls, ignition systems for infrared heaters, gas heating equipment maintenance, troubleshooting, and condensing furnaces.

Associate Degree Applicable**HVAC/R 056C 3 Units****Hot Water Heating****Lecture:** 54 contact hours

This course offers instruction in the principles and theories of hot water heating. Students will learn about hot water boilers and controls, heat transfer units, centrifugal pumps, air controls, hot water specialties, piping methods, pressure drop calculations, zoning, primary/secondary pumping, radiant heating systems, temperature controls, troubleshooting system components, and analysis of system problems.

Associate Degree Applicable**HVAC/R 057C 3 Units****Tools, Controls, and Troubleshooting****Lecture:** 54 contact hours**Advisory:** ENGL 914

This course is one of a three-semester national training course offered by the Refrigeration Service Engineers Society (RSES) and the North American Technician Excellence (NATE). It is a comprehensive study of the tools of the trade and control diagnostics with testing instruments. This course is designed to help students seeking journeymen-level certification as refrigeration technicians and keep abreast of current technology.

Associate Degree Applicable**HVAC/R 060C 3 Units****Troubleshooting Refrigeration and A/C Electricity 4****Lecture:** 54 contact hours**Advisory:** ENGL 914

This is a one-semester course that includes the first of a three-term course offered by the Refrigeration Service Engineers Society (RSES) and is a comprehensive study of troubleshooting HVAC/R electrical circuits. This course is designed to help certify journeymen-level refrigeration technicians and keep their knowledge current.

Associate Degree Applicable**HVAC/R 061C 3 Units****Troubleshooting Refrigeration and A/C Electricity 5****Lecture:** 54 contact hours**Advisory:** ENGL 914

This is a one-semester course that includes the second of a three-term course offered by the Refrigeration Service Engineers Society (RSES) and is a comprehensive study of troubleshooting HVAC/R electrical circuits. This course is designed to help certify journeymen-level refrigeration technicians and keep their knowledge current.

Associate Degree Applicable**HVAC/R 062C 4 Units****RSES Electricity and Electricity Lab for HVAC/R Technicians****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** HVAC/R 060C and HVAC/R 061C**Advisory:** ENGL 914

This is a one semester course offered by the Refrigeration Service Engineers Society that includes a Hands on Lab with emphasis on electrical safety, the fundamentals of electricity, series and parallel circuits, A/C current, magnetism and transformers, relays, contactors, starters, motors and capacitors, compressors, circuit protection devices, and thermostats. Also included are lessons on reading schematics, and troubleshooting gas furnaces and split-systems. This course is designed to help certify journeymen-level refrigeration technicians and keep their knowledge current.

Associate Degree Applicable**HVAC/R 065C 3 Units****RSES Technical Institute Heat Pump Training Course Volume I****Lecture:** 54 contact hours**Advisory:** ENGL 914

This is a one-semester course that includes the first of two heat pump classes offered by the Refrigeration Service Engineers Society and is a comprehensive introduction to heat pump theory, fundamentals, and includes water-source heat pumps. Students will also study heat pump compressors, flow controls and accessories; heat pump electrical systems and components, thermostats; air-to-air heat pump defrost; supplemental electric heat; fossil fuel backup heat and heat pump piping. Additional subjects include heat pump performance criteria; checks; and procedures. This course is designed to help certify journeymen-level refrigeration technicians and keep their knowledge current.

Associate Degree Applicable**HVAC/R 066C 3 Units****RSES Technical Institute Heat Pump Training Course Volume II****Lecture:** 54 contact hours**Advisory:** ENGL 914

This is a one-semester course that includes the second of two heat pump classes offered by the Refrigeration Service Engineers Society, and is an advanced class for heat pump troubleshooting, and includes water-source heat pumps, and water source heat pumps for special applications. Students will study both standard and high-efficiency air-to-air heat pump electrical and refrigerant-side troubleshooting, (both heating, and cooling). Students will also do heat pump load calculations, indoor air distribution, duct design with emphasis on diagnosing airflow problems. Customer relations will also be addressed. This course is designed to help certify journeymen-level refrigeration technicians, and keep their knowledge current.

Associate Degree Applicable

HVAC/R 067C 3 Units

RSES Technical Institute Training Manual 3 Volume I

Lecture: 54 contact hours

Advisory: ENGL 914

This is the first term class of the two-term Training Manual 3 classes offered by the Refrigeration Service Engineers Society and is a comprehensive introduction to heat pump theory, including water-source heat pumps. Students will also study fans and blowers, economizers, computer room environmental controls, air filtration and distribution, cooling towers, and water treatment. Additional subjects include evaporative condensers, heat transfer coils, and closed-circuit water coolers. These courses are designed to help certify journeymen-level refrigeration technicians and keep their knowledge current.

Associate Degree Applicable

HVAC/R 068C 3 Units

RSES Technical Institute Training Manual 3 Volume II

Lecture: 54 contact hours

Advisory: ENGL 914

This is the second term class of the two-term Training Manual 3 classes offered by the Refrigeration Service Engineers Society and is a comprehensive introduction to heat pump theory, including water-source heat pumps. Students will also study fans and blowers, economizers, computer room environmental controls, air filtration and distribution, cooling towers, and water treatment. Additional subjects include, evaporative condensers, heat transfer coils, and closed-circuit water coolers. These courses are designed to help certify journeymen-level refrigeration technicians and keep their knowledge current.

Associate Degree Applicable

HVAC/R 098 1-4 Units

Refrigeration Work Experience

WRKEX: 300 contact hours

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable

HVAC/R 601 Noncredit

HVAC/R Fundamentals

Lecture: 54 contact hours

Lab: 54 contact hours

This noncredit course covers basic principles of refrigeration, refrigerants, refrigeration components and tools; repair and testing of refrigeration units; and basic brazing and soldering.

Heating, Ventilation, Air Conditioning and Refrigeration Associate of Science Degree

To graduate with a specialization in Heating, Ventilation, Air Conditioning and Refrigeration, students must complete all requirements for the certificate with a grade of C or better plus the general breadth requirements for the Associate of Science Degree (minimum total = 60 units).

Code	Title	Units
Required Courses		
HVAC/R 001	HVAC/R Fundamentals	4
HVAC/R 002	Domestic Mechanical Refrigeration	4
HVAC/R 003	Commercial Mechanical Refrigeration	4

HVAC/R 004	Electrical Fundamentals for HVAC/R	4
HVAC/R 005	Commercial Electric for HVAC/R	4
HVAC/R 006	HVAC/R Air Distribution Systems	4
HVAC/R 007	Welding for HVAC/R	3

Environmental Protection Agency (EPA) Universal Certification (608)

Students must be eligible for MATH 102 or higher as determined by the SBVC assessment process, if not, select one course below:

MATH 095	Intermediate Algebra	4
MATH 096	Elementary and Intermediate Algebra	5
TECALC 087	Technical Calculations	4
Total Units		27-32

Code Title Units Recommended Course

Students are encouraged to take this course to augment their knowledge of air conditioning and heating:

AUTO 056	Automotive Heating and Air Conditioning	4
----------	---	---

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Select and operate the required test equipment and during troubleshooting and repair operations, with an emphasis on safety in use and accuracy in results
- Analyze, interpret, and trace signal flow diagrams used in signal tracing of complex wiring circuits
- Effectively communicate with and advise customers and co-workers, both written and orally, regarding the progress of and decisions made concerning test and repair procedures
- Pass the practice RSES and NATE exam on the theory and procedures of the HVAC/R technology

Heating, Ventilation, Air Conditioning and Refrigeration Certificate of Achievement

This certificate is designed to prepare students with the necessary knowledge and skills to obtain entry-level employment in the field of heating, ventilation, air conditioning and refrigeration, installing, maintaining, and repairing such systems.

Code	Title	Units
Required Courses		
HVAC/R 001	HVAC/R Fundamentals	4
HVAC/R 002	Domestic Mechanical Refrigeration	4
HVAC/R 003	Commercial Mechanical Refrigeration	4

HVAC/R 004	Electrical Fundamentals for HVAC/R	4
HVAC/R 005	Commercial Electric for HVAC/R	4
HVAC/R 006	HVAC/R Air Distribution Systems	4
HVAC/R 007	Welding for HVAC/R	3

Environmental Protection Agency (EPA) Universal Certification (608)

Students must be eligible for MATH 102 or higher as determined by the SBVC assessment process, if not, choose one course below:

MATH 095	Intermediate Algebra	4
MATH 096	Elementary and Intermediate Algebra	5
TECALC 087	Technical Calculations	4
Total Units		27-32

Code Title Units
Recommended Course

Students are encouraged to take this course to augment their knowledge of air conditioning and heating:

AUTO 056	Automotive Heating and Air Conditioning	4
----------	---	---

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Select and operate the required test equipment and during troubleshooting and repair operations, with an emphasis on safety in use and accuracy in results
- Analyze, interpret, and trace signal flow diagrams used in signal tracing of complex wiring circuits
- Effectively communicate with and advise customers and co-workers, both written and orally, regarding the progress of and decisions made concerning test and repair procedures
- Pass the practice RSES and NATE exam on the theory and procedures of the HVAC/R technology

Refrigeration Service Engineer Society (HVAC) Certificate of Achievement

This certificate is designed to prepare students for advanced level of employment. These training courses are aligned with the North American Technician Excellence (NATE) industry organization. Technicians who successfully complete one or more of these courses may receive credit toward renewing their NATE certification.

Code	Title	Units
Required Courses		
HVAC/R 050C	Compressors, Condensers and Cooling Towers	3
HVAC/R 051C	Heating Fundamentals	3
HVAC/R 052C	Heating Transfer & Distribution	3
HVAC/R 055C	Gas Heating	3
HVAC/R 056C	Hot Water Heating	3
HVAC/R 057C	Tools, Controls, and Troubleshooting	3

HVAC/R 060C	Troubleshooting Refrigeration and A/C Electricity 4	3
HVAC/R 061C	Troubleshooting Refrigeration and A/C Electricity 5	3
HVAC/R 062C	RSES Electricity and Electricity Lab for HVAC/R Technicians	4
HVAC/R 065C	RSES Technical Institute Heat Pump Training Course Volume I	3
HVAC/R 066C	RSES Technical Institute Heat Pump Training Course Volume II	3
HVAC/R 067C	RSES Technical Institute Training Manual 3 Volume I	3
HVAC/R 068C	RSES Technical Institute Training Manual 3 Volume II	3

Total Units 40

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Distinguish between electrical systems, components and circuits by successful interpretation of schematics and diagrams
- Compare and categorize operation and components of typical refrigeration, heating and humidifying system
- Distinguish between and demonstrate the ability to correctly use different HVAC/R trade tools and meters
- Demonstrate safe work practices and use required personal protective equipment
- Design, build, troubleshoot and service HVAC/R equipment

Heavy/Medium Duty Truck Technology

The Heavy/Medium Duty Truck Technology program offers students high technology training and skills that may be utilized for immediate employment after certificate completion. Students will receive training in various subjects including brake and suspension, computer-controlled engines, emphasis in electrical and heavy-duty maintenance. Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

Contact Information

Division: Applied Technology, Transportation, and Culinary Arts (T - 108)

Division Phone Number: (909) 384-4451

Faculty Chair: Kenny Melancon (bmelancon@sbccd.edu), A.S.

- Heavy/Medium Duty Truck Technology Associate of Science Degree (p. 197)
- Heavy-Medium Duty Truck Technology Certificate of Achievement (p. 195)
- Heavy/Medium Duty Clean Vehicle Technology Certificate of Achievement (p. 196)
- Heavy/Medium Duty Truck Engine and Fuel Injection Technology Certificate of Achievement (p. 196)

- Heavy/Medium Duty Truck Engine and Fuel Injection Technology Certificate of Completion (p. 197)

HMDT 021 4 Units**Heavy-Duty Truck Engines****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course covers theory and practical shop work in the repair, operation, and maintenance of heavy-duty industrial truck engines and fuel injection systems including general troubleshooting and diagnostic testing. This course may be used in preparation for the Automotive Service Excellence (ASE) National Test. (Formerly DIESEL 021)

Associate Degree Applicable**HMDT 022 4 Units****Heavy-Duty Truck Brakes****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course covers theory and practical shop work in the construction, operation, and repair of heavy-duty truck brake systems and components including principles of hydraulic and pneumatic brake systems, anti-lock, and computer controlled braking systems used in today's modern heavy-duty trucks and busses. (Formerly DIESEL 022)

Associate Degree Applicable**HMDT 023 4 Units****Heavy-Duty Truck Suspension and Steering****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course covers theory and practical shop work in the construction, operation, and repair of heavy-duty truck suspension and steering components including principles of hydraulic and pneumatic steering and suspension systems. (Formerly DIESEL 023)

Associate Degree Applicable**HMDT 024 4 Units****Advanced Heavy-Duty Truck Engines****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** HMDT 021

This course is an advanced engine rebuilds class that covers theory and practical shop work in the repair, operation, and maintenance of various heavy-duty truck engines. Topics include general troubleshooting and diagnostic testing of engine components and systems found in most engines from a variety of engine manufacturers. This course may be used in preparation for the Automotive Service Excellence (ASE) National Test. (Formerly DIESEL 024)

Associate Degree Applicable**HMDT 026 4 Units****Computer Controlled Truck Engines****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** HMDT 064 or AUTO 064

This course covers theory and practical shop work in the repair, operation, and maintenance of computer controlled truck engines. Topics include general troubleshooting and diagnostics using assorted electronic and computerized test equipment on operable computer controlled diesel engines. (Formerly DIESEL 026)

Associate Degree Applicable**HMDT 028 4 Units****Heavy-Duty Truck Systems****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** HMDT 064 or AUTO 064

This course covers theory and practical shop work in maintenance, air conditioning, Antilock Brake System (ABS), computers, and operations of the heavy-duty truck and bus systems. Course is designed to provide students the needed skills and knowledge to perform advanced level labor tasks in the heavy-duty truck and bus service industry. (Formerly DIESEL 028)

Associate Degree Applicable**HMDT 034 4 Units****Diesel Alternative Fuels****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course provides theory and hands-on experience in the operation, service, inspection, and maintenance of compressed natural gas (CNG) vehicle systems. This course prepares students for the ASE Alternate Fuels Test (F-1). (Formerly DIESEL 034)

Associate Degree Applicable**HMDT 035 2 Units****Heavy-Duty Vehicle Automatic Transmissions****Lecture:** 27 contact hours**Lab:** 27 contact hours

This course provides theory and hands-on experience with heavy- and medium-duty automatic transmission operation, construction, service and overhaul procedures. (Formerly DIESEL 035)

Associate Degree Applicable**HMDT 042 2 Units****Zero Emission Heavy Duty Truck****Lecture:** 18 contact hours**Lab:** 54 contact hours

The Zero Emission Heavy-Duty Truck course is to provide students with training in servicing and maintaining electric vehicles.

Associate Degree Applicable**HMDT 064 4 Units****Auto/Truck Electrical Systems****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course covers basic electrical theory, use of meters, test equipment, wiring diagrams, diagnosis and repair/replacement of major electrical components of automobiles and trucks. Emphasis is placed on diagnosis of starting systems, charging systems, and electrical circuits such as lights and batteries. (Formerly DIESEL 064)

Associate Degree Applicable**HMDT 098 1-4 Units****Heavy/Medium Duty Truck Work Experience****WRKEX:** 300 contact hours

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines. (Formerly DIESEL 098)

Associate Degree Applicable

HMDT 621 Noncredit**Heavy-Duty Truck Engines****Lecture:** 54 contact hours**Lab:** 54 contact hours

This noncredit course covers theory and practical shop work in the repair, operation, and maintenance of heavy-duty industrial truck engines and fuel injection systems including general troubleshooting and diagnostic testing. This course may be used in preparation for the Automotive Service Excellence (ASE) National Test. (Formerly DIESEL 621)

HMDT 622 Noncredit**Heavy-Duty Truck Brakes****Lecture:** 54 contact hours**Lab:** 54 contact hours

This noncredit course covers theory and practical shop work in the construction, operation, and repair of heavy-duty truck brake systems and components including principles of hydraulic and pneumatic brake systems, anti-lock, and computer controlled braking systems used in today's modern heavy-duty diesel trucks and busses. (Formerly DIESEL 622)

HMDT 623 Noncredit**Heavy-Duty Truck Suspension and Steering****Lecture:** 54 contact hours**Lab:** 54 contact hours

This noncredit course covers theory and practical shop work in the construction, operation, and repair of heavy-duty truck suspension and steering components including principles of hydraulic and pneumatic steering and suspension systems. (Formerly DIESEL 623)

HMDT 624 Noncredit**Advanced Heavy-Duty Truck Engines****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** HMDT 621

This noncredit course is an advanced engine rebuilds class that covers theory and practical shop work in the repair, operation, and maintenance of various heavy-duty truck engines. Topics include general troubleshooting and diagnostic testing of engine components and systems found in most engines from a variety of engine manufacturers. This course may be used in preparation for the Automotive Service Excellence (ASE) National Test. (Formerly DIESEL 624)

HMDT 626 Noncredit**Computer Controlled Truck Engines****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** HMDT 664

This noncredit course covers theory and practical shop work in the repair, operation, and maintenance of computer controlled truck engines. Topics include general troubleshooting and diagnostics using assorted electronic and computerized test equipment on operable computer controlled diesel engines. (Formerly DIESEL 626)

HMDT 628 Noncredit**Heavy-Duty Truck Systems****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** HMDT 664

This noncredit course covers theory and practical shop work in maintenance, air conditioning, Antilock Brake System (ABS), computers, and operations of the heavy-duty truck and bus systems. Course is designed to provide students the needed skills and knowledge to perform advanced level labor tasks in the heavy-duty truck and bus service industry. (Formerly DIESEL 628)

HMDT 634 Noncredit**Heavy/Medium Duty Truck Alternative Fuels****Lecture:** 54 contact hours**Lab:** 54 contact hours

This noncredit course provides theory and hands-on experience in the operation, service, inspection, and maintenance of compressed natural gas (CNG) vehicle systems. This course prepares students for the ASE Alternate Fuels Test (F-1). (Formerly DIESEL 634)

HMDT 635 Noncredit**Heavy-Duty Vehicle Automatic Transmissions****Lecture:** 27 contact hours**Lab:** 27 contact hours

This noncredit course provides theory and hands-on experience with heavy - and medium - duty automatic transmission operation, construction, service and overhaul procedures. (Formerly DIESEL 635)

HMDT 638 Noncredit**Heavy-Duty Diesel Emissions****Lecture:** 9 contact hours**Lab:** 27 contact hours

This is an advanced noncredit course in heavy-duty diesel emissions with emphasis on exhaust after treatment and related equipment.

HMDT 664 Noncredit**Auto/Truck Electrical Systems****Lecture:** 54 contact hours**Lab:** 54 contact hours

This noncredit course covers basic electrical theory, use of meters, test equipment, wiring diagrams, diagnosis and repair/replacement of major electrical components of automobiles and trucks. Emphasis is placed on diagnosis of starting systems, charging systems, and electrical circuits such as lights and batteries. (Formerly DIESEL 664)

Heavy-Medium Duty Truck Technology Certificate of Achievement

This certificate is designed to prepare students for entry-level positions for the repair and maintenance of heavy and medium duty engines in trucks, locomotives, heavy vehicles, and mobile heavy-duty equipment.

Code	Title	Units
Required Courses		
HMDT 021	Heavy-Duty Truck Engines	4
HMDT 022	Heavy-Duty Truck Brakes	4
HMDT 023	Heavy-Duty Truck Suspension and Steering	4
HMDT 024	Advanced Heavy-Duty Truck Engines	4
HMDT 026	Computer Controlled Truck Engines	4
HMDT 028	Heavy-Duty Truck Systems	4
HMDT 064	Auto/Truck Electrical Systems	4
or AUTO 064	Auto/Truck Electrical Systems	
Total Units		28

Code	Title	Units
Recommended Course		
HMDT 098	Heavy/Medium Duty Truck Work Experience	1-4

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Diagnose and repair malfunctions in electrical systems and components
- Disassemble, inspect and repair parts, which are reusable in a manner consistent with accepted trade practices and assemble a diesel engine in accordance with manufacturer instructions and specifications
- Perform all necessary adjustments, demonstrate sequential steps taken in diagnosing heavy-duty truck brake systems and remove and replace components in a manner consistent with industry standards
- Diagnose heavy-duty truck suspension and steering systems and remove and replace components in a manner consistent with industry standards
- Diagnose the fuel system and tune-up problems using various electronic test equipment. Remove and replace components in a manner consistent with industry standards
- Perform routine servicing of heavy-duty vehicles by evaluating equipment conditions and successfully and safely removing and replacing tires and other equipment in a manner consistent with industry practices and safety standards
- Troubleshoot a truck electrical system failure, diagnose the cause and correctly repair that failure in accordance with accepted industry standards

- Diagnose and repair malfunctions in electrical systems and components of alternative fuel systems
- Disassemble, inspect and repair parts, which are reusable in a manner consistent with accepted trade practices
- Assemble a diesel engine and/or a Direct Current (DC) or Alternating Current (AC) electric motor in accordance with manufacturer instructions and specifications
- Perform routine servicing of heavy-duty vehicles by evaluating equipment conditions successfully in a manner consistent with industry practices and safety standards
- Troubleshoot an electrical system failure, diagnose the cause and correctly repair that failure in accordance with accepted industry standards

Heavy/Medium Duty Clean Vehicle Technology Certificate of Achievement

This certificate is designed to provide students with the fundamentals of alternative fuel and electric vehicle technology as it applies to industrial. The curriculum prepares students for entry-level positions in Heavy-Duty Truck and electrical maintenance, field service, and networking, in the field of Hybrid/ Alternative fuel to include electrical power technology.

Code	Title	Units
Required Courses		
AUTO 010	Introduction to Hybrid and Electric Vehicle Technology	4
ELECTR 110	Direct Current Circuit Analysis	3
ELECTR 111	Direct Current Circuit Laboratory	1
ELECTR 115	Alternating Current Circuit Analysis	3
ELECTR 116	Alternating Current Circuit Laboratory	1
TECALC 087	Technical Calculations	4
HMDT 042	Zero Emission Heavy Duty Truck	2
HMDT 034	Diesel Alternative Fuels	4
Total Units		22

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

Heavy/Medium Duty Truck Engine and Fuel Injection Technology Certificate of Achievement

The Heavy/Medium Duty Truck Engine and Fuel Injection Technology certificate offers students high technology training and skills that may be utilized for immediate employment after certification completion. Students will receive training in various subjects including repair, operation and maintenance of heavy-duty industrial diesel engines and computer controlled diesel engines. The certificate will also cover basic electrical theory, use of meters, test equipment, and wiring diagrams. The certificate also covers general troubleshooting and diagnostic testing. The certificate may also be used in preparation for the Automotive Service Excellence (ASE) National Test.

Code	Title	Units
Required Courses		
HMDT 021	Heavy-Duty Truck Engines	4
HMDT 024	Advanced Heavy-Duty Truck Engines	4
HMDT 028	Heavy-Duty Truck Systems	4
HMDT 034	Diesel Alternative Fuels	4
HMDT 064	Auto/Truck Electrical Systems	4
Total Units		20

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Diagnose, repair, operation and maintenance of heavy-duty industrial diesel engines and computer controlled diesel engines and alternative fuel (CNG)
- Cover basic electrical theory, use of meters, test equipment, and wiring diagrams
- Take the the Automotive Service Excellence (ASE) National Test
- Perform routine servicing of heavy-duty vehicle engines by evaluating equipment conditions and successfully in a manner consistent with industry practices and safety standards

Heavy/Medium Duty Truck Engine and Fuel Injection Technology Certificate of Completion

The Heavy/Medium Duty Truck Engine and Fuel Injection Technology noncredit certificate offers students high technology training and skills that may be utilized for immediate employment after certification completion. Students will receive training in various subjects including repair, operation and maintenance of heavy-duty industrial diesel engines and computer controlled diesel engines. The certificate will also cover basic electrical theory, use of meters, test equipment, and wiring diagrams. The certificate also covers general troubleshooting and diagnostic testing. The certificate may also be used in preparation for the Automotive Service Excellence (ASE) National Test.

Code	Title	Units
Required Courses		
HMDT 621	Heavy-Duty Truck Engines	96-108
HMDT 624	Advanced Heavy-Duty Truck Engines	96-108
HMDT 628	Heavy-Duty Truck Systems	96-108
HMDT 634	Heavy/Medium Duty Truck Alternative Fuels	96-108
HMDT 664	Auto/Truck Electrical Systems	96-108
Total Hours		480-540

Program Learning Outcomes

At the completion of this program, students will be able to:

- Diagnose, repair, operation and maintenance of heavy-duty industrial diesel engines and computer controlled diesel engines and alternative fuel (CNG)
- Have the understanding and knowledge to cover basic electrical theory, use of meters, test equipment, and wiring diagrams
- Prepare to take the the Automotive Service Excellence (ASE) National Test
- Perform routine servicing of heavy-duty vehicle engines by evaluating equipment conditions and successfully in a manner consistent with industry practices and safety standards

Heavy/Medium Duty Truck Technology Associate of Science Degree

The Heavy/Medium Duty Truck Technology degree prepares the students to seek employment in maintenance and repair of heavy/medium duty trucks at beginning level and can move to advanced level after some experience.

Code	Title	Units
Required Courses		
CIT 101	Introduction to Computer Literacy	3
HMDT 021	Heavy-Duty Truck Engines	4
HMDT 022	Heavy-Duty Truck Brakes	4
HMDT 023	Heavy-Duty Truck Suspension and Steering	4
HMDT 024	Advanced Heavy-Duty Truck Engines	4
HMDT 026	Computer Controlled Truck Engines	4

HMDT 028	Heavy-Duty Truck Systems	4
HMDT 064	Auto/Truck Electrical Systems	4
or AUTO 064	Auto/Truck Electrical Systems	
Total Units		31

Code	Title	Units
Recommended Courses		

HMDT 098	Heavy/Medium Duty Truck Work Experience	1-4
WELD 010	Introduction to Welding	2

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Diagnose and repair malfunctions in electrical systems and components
- Disassemble, inspect and repair parts, which are reusable in a manner consistent with accepted trade practices and assemble a diesel engine in accordance with manufacturer instructions and specifications
- Perform all necessary adjustments, demonstrate sequential steps taken in diagnosing heavy-duty truck brake systems and remove and replace components in a manner consistent with industry standards
- Diagnose heavy-duty truck suspension and steering systems and remove and replace components in a manner consistent with industry standards
- Diagnose the fuel system and tune-up problems using various electronic test equipments and remove and replace components in a manner consistent with industry standards
- Perform routine servicing of heavy-duty vehicles by evaluating tire and other equipment conditions and successfully and safely removing and replacing tires and other equipment in a manner consistent with industry practices and safety standards
- Troubleshoot a truck electrical system failure, diagnose the cause and correctly repair that failure in accordance with accepted industry standards
- Be prepared to transfer a core curriculum to an accredited, four-year college or university with junior class standing

History

Courses in the History Department explore the past in a variety of ways. Through a critical evaluation of the causes and significance of events in the past, students of history learn about the individuals, ideas, actions, and events that have shaped our present. History teaches students to think critically and to communicate their ideas in a more sophisticated fashion. It promotes an understanding of cultures and societies from the past while it helps students consider their own identities in the world of today. While the study of history is valuable in its own right, it also serves as

a useful preparation for careers in law, public service, journalism, business, medicine, and education.

Students planning to transfer to a four-year institution and major in history should consult with a counselor regarding the transfer process and lower division requirements. History department courses may meet both Social Science and Humanities general education requirements at UC, CSU, and private colleges and universities.

Courses for CSU General Education Requirement: U.S. History and American Ideals

Students transferring to CSU institutions will need to meet the United States History and American Ideals requirement. While this is not part of CSU-GE Certification, students can be complete this requirement prior to transfer by completing one of the courses below. Contact a counselor for additional information.

Code	Title	Units
HIST 100	United States History to 1877	3
or HIST 100H	United States History to 1877 - Honors	
HIST 101	United States History: 1865 to Present	3
or HIST 101H	United States History: 1865 to Present - Honors	
HIST 137	Racial and Ethnic Groups in United States History	3
HIST 139	African-American History 1877 to Present	3
HIST 140	Chicano History	3

Contact Information

Division: Social Sciences, Human Development, and Physical Education (NH - 345)

Division Phone Number: (909) 384-8603

Faculty Chair: Colleen Calderon (ccaldero@sbccd.edu), M.A.

HIST 100 3 Units

United States History to 1877

Lecture: 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course provides a general survey of United States history with an emphasis on political, economic, social, and cultural developments from the pre-Colonial period through the Civil War and Reconstruction period.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: HIST 130

HIST 100H 3 Units

United States History to 1877 - Honors

Lecture: 54 contact hours

Prerequisite: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course provides a general survey of United States history, including the use of selected primary texts, with an emphasis on political, economic, social, and cultural developments from the pre-Colonial period through the Civil War and Reconstruction period. This course is intended for students in the Honors Program but is open to all students who desire more challenging work.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: HIST 130

HIST 101 3 Units

United States History: 1865 to Present

Lecture: 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course covers a general survey of United States history with an emphasis on social, political, cultural and economic developments from the Reconstruction period to present times.

Associate Degree Applicable

Transfers to both UC/CSU

HIST 101H 3 Units

United States History: 1865 to Present - Honors

Lecture: 54 contact hours

Prerequisite: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course covers a general survey of United States history, including the use of selected primary texts, with an emphasis on social, political, cultural and economic developments from the Reconstruction period to present times. This course is intended for students in the Honors Program but is open to all students who desire more challenging work.

Associate Degree Applicable

Transfers to both UC/CSU

HIST 107 3 Units

The United States and the North American Indians

Lecture: 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is a history of Native Americans in the region of the current day United States from the time preceding European colonialism to the present.

Associate Degree Applicable

Transfers to both UC/CSU

HIST 137 3 Units

Racial and Ethnic Groups in United States History

Lecture: 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is an introduction to United States history focusing on the experiences of racial and ethnic groups that spans from the early colonial period to present times. This course presents a comparative approach to understanding various racial and ethnic groups and their experiences through major social, political, economic, and cultural events in United States history.

Associate Degree Applicable

Transfers to both UC/CSU

HIST 138 3 Units

African-American History to 1877

Lecture: 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

As a general survey of African-American history to 1877, this course will analyze and detail the creation and development of African-American culture. This course examines key historical events and movements, such as the Atlantic slave trade, colonial and antebellum slavery, slave resistance, and the role of Free Blacks.

Associate Degree Applicable

Transfers to both UC/CSU

HIST 139 3 Units**African-American History 1877 to Present****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course will emphasize the various social, political, and economic forces that have shaped the lives of African Americans from Reconstruction to the current time period. Topics include the post Reconstruction South, the Great Migration, the Harlem Renaissance, the Civil Rights Movement, the conservative backlash, and the trials and triumphs of the 21st century.

Associate Degree Applicable**Transfers to both UC/CSU****HIST 140 3 Units****Chicano History****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course provides a survey of United States history from the Chicano perspective, with an emphasis on the 1840s to the 21st century.

Associate Degree Applicable**Transfers to both UC/CSU****HIST 145 3 Units****History of California****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course surveys the rich heritage of California from its earliest inhabitants and Spanish/Mexican settlements to the present. An emphasis will be placed on the impact of the ethnic and cultural diversity of California along with the importance of geography and immigration. Other topics will include political, economic, and social development of the region from the early 19th century to the present.

Associate Degree Applicable**Transfers to both UC/CSU****HIST 150 3 Units****Introduction to Latin American History****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course studies the historical heritage of Latin America from its Indian, European and African origins to present. Course material is presented in chronological order with themes ranging from social, political, and cultural developments, to poverty, international conflicts, and race relations.

Associate Degree Applicable**Transfers to both UC/CSU****HIST 170 3 Units****World History to 1500****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course covers the development of human societies from their origins to 1500. Particular emphasis placed on a comparative approach between the world's major civilizations, including an examination of social structure and daily life, evolution of complex political systems, cultural values and economic developments.

Associate Degree Applicable**Transfers to both UC/CSU****HIST 171 3 Units****World History Since 1500****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is a survey of world history from 1500 to present. There is a comparative approach to the study of specific themes including political, social, and economic change, as well as religious and cultural development.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** HIST 160**HIST 176 3 Units****Comparative History of Genocide and War Crimes****Lecture:** 54 contact hours**Prerequisite:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course teaches the comparative history of genocide and war crimes during the 20th and 21st centuries. Students will study the phenomenon in a cross-cultural framework and will learn about the various socio-cultural and political organizations that have combatted genocide and rendered it a criminal act under international law.

Associate Degree Applicable**Transfers to both UC/CSU**

Human Services

The department of Human Services offers several options for students wanting to enter the helping professions. The department is considered interdisciplinary, offering CTE certificates only for those who are entering the workforce in specific entry level positions, a Human Services AA degree for those who are preparing to transfer for careers requiring a BA or Masters level degree, or a combination of both a certificate and degree.

The Alcohol and Drug Certificate is accredited by California Alcohol and Drug Educators, CAADE, an organization that accredits college program curriculum to align with state standards. This certificate is also recognized by the Department of Health Care Services, DHCS, as the first of 3 steps in acquiring state certification.

The 3 steps for Alcohol and Drug Certification in the state of California as outlined in title 9 of the counselor regulations by the DHCS are as follows:

1. Complete a certification program and receive certificate, this includes registering with one of the state approved certification bodies, CAADE, CCAPP, or CADTP
2. Complete the state exam given by the certification body
3. Complete 2500-3000 hours of supervised, (by clinical counselor with an AOD certification, in a DHCS licensed facility

Upon enrolling in the certificate program, the department suggests meeting with the faculty chair or professional expert in the department of Human Services to understand the process of state certification and the jobs open for alcohol and drug counselors at every level of certification and / or degree.

Contact Information

Division: Social Sciences, Human Development, and Physical Education (NH - 345)

Division Phone Number: (909) 384-8603

Faculty Chair: Melinda Money maker (mmoneyma@sbccd.edu), B.A.

-
- Human Services Associate of Arts Degree (p. 204)
 - Addiction Studies Certificate of Achievement (p. 203)
 - Career Specialist Certificate of Achievement (p. 203)
 - Case Management in the Public Sector Certificate of Achievement (p. 204)
 - Human Services Certificate of Achievement (p. 205)

HUMSV 130 3 Units

Introduction to Addiction Studies

Lecture: 54 contact hours

Advisory: ENGL 101 or ENGL 101H as determined by the SBVC assessment process and READ 100.

This course provides an exploration of the psychological, sociological, and physical causes and effects of substance use disorder. Also included, are overviews of the biopsychosocial nature of addiction; the impact of addiction on children, families and society; contemporary treatment and prevention approaches; and the addiction counseling profession. (FORMERLY HUMSV 181)

Associate Degree Applicable

Transfers to CSU only

HUMSV 131 3 Units

Co-Occur Disorders

Lecture: 54 contact hours

Advisory: READ 100 and ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course reviews the major concepts, definitions, and features of co-occurring mental health disorders associated with addiction. Skills in recognizing co-occurring disorders, referral and case management of clients, and appropriate scope of practice are emphasized. Common types of mental health issues associated with addiction, including mood, anxiety, and adjustment disorders, post-traumatic stress disorder, and unresolved issues of childhood abuse, are covered as well as an overview of appropriate treatment and management approaches. (Formerly HUMSV 281B)

Associate Degree Applicable

Transfers to CSU only

HUMSV 132 3 Units

Diverse Populations

Lecture: 54 contact hours

Advisory: READ 100 and ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course explores the cultural impact of race, nationality, gender, sexual orientation, age, socio-economic status, and religion on substance use and access to treatment. The course will provide exposure to the fundamentals of cross-cultural counseling of individuals and families with substance use disorders, and common cultural barriers to traditional dependency counseling are examined.

Associate Degree Applicable

Transfers to CSU only

HUMSV 133 3 Units

Pharmacology

Lecture: 54 contact hours

Advisory: HUMSV 130

The biological impact of alcoholism and other drug dependencies, with an emphasis on the treatment and recovery processes, and the role of medical professionals as members of the recovery team are reviewed in this course. (Formerly HUMSV 188)

Associate Degree Applicable

Transfers to CSU only

HUMSV 134 3 Units

Family Dynamics of Addiction

Lecture: 54 contact hours

Advisory: READ 100 and ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course offers an overview of family dynamics associated with alcoholism and drug addiction; the impact of the diseases on family members; family oriented approaches to recovery; and the reintegration of the family into the community. (Formerly HUMSV 186)

Associate Degree Applicable

Transfers to CSU only

HUMSV 135 3 Units

Prevention, Intervention and Recovery

Lecture: 54 contact hours

Advisory: READ 100 and ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course provides a comprehensive overview of theories and strategies for the prevention of substance use disorders. Primary, secondary, and tertiary and evidence-based prevention models will be introduced and assessed. Prevention programs and activities appropriate for the community, school, parents and family, and work-sites will be covered. Strategies such as education, public policies, media/information dissemination, ethnic, cultural, and gender-specific approaches, environmental risk reduction, and alternatives will be presented and assessed for their application to different target populations. (Formerly HUMSV 189)

Associate Degree Applicable

Transfers to CSU only

HUMSV 136 3 Units

Addiction Studies: Basic Counseling I

Lecture: 54 contact hours

Prerequisite: HUMSV 130 and HUMSV 179

This course is designed for students seeking a certificate in Addiction Studies. Included topics are the dynamics of the helping relationship, analysis and implications of common characteristics of substance dependent individuals, demonstration and practice of assessment, interviewing and referral techniques; and review of counseling skills and case management. (Formerly HUMSV 183)

Associate Degree Applicable

Transfers to CSU only

HUMSV 137 3 Units**Addiction Studies: Group Counseling II****Lecture:** 54 contact hours**Prerequisite:** HUMSV 136 and HUMSV 230 and HUMSV 232

This course is designed for students seeking a certificate in Addiction Studies, and includes practical implications and experience in various recovery and crisis intervention modalities; investigation of and experience in group dynamics; analysis and interpretation of critical aspects of counseling; analysis of the role of significant others in the recovery process; discussion of current treatment interventions; and the process of case management and record keeping. (Formerly HUMSV 184)

Associate Degree Applicable**Transfers to CSU only****HUMSV 140 3 Units****Case Management in Public Service****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course provides an overview of the history, theories, skills and knowledge of case management in public social service settings. Topics include organizational structure, funding streams, regulatory issues, job descriptions, skills, personal qualities, evaluation, assessment and referral, employment services, and career paths. It is designed for students entering into the field of case management in public service.

Associate Degree Applicable**Transfers to CSU only****HUMSV 147 3 Units****Career Specialist****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course provides an introduction to the field of career counseling including interviewing techniques, assessment tools, job opportunities and models for developing occupational options.

Associate Degree Applicable**Transfers to CSU only****HUMSV 167 3 Units****Crisis Intervention****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

The course examines the history and definitions of crisis intervention. Practical application of intervention theories and models, interviewing techniques, referral procedures, and assessment are explained and demonstrated. Analysis of types of crises such as suicide, substance abuse and violence in the workplace; common dangers; and coping methods will be presented. Professional issues including legal and ethical issues, confidentiality, cultural sensitivity and burn out are also covered.

Associate Degree Applicable**Transfers to CSU only****HUMSV 170 3 Units****Introduction to Human Services****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an exploration of the historical and theoretical perspectives of human services in response to social problems. Examination of legal, ethical and problem-solving models are presented and implications of ethnic, gender, and cultural diversity issues are discussed.

Associate Degree Applicable**Transfers to CSU only****HUMSV 172 3 Units****Group and Family Dynamics****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course offers a comprehensive study of the dynamics operating in groups and families including the identification of healthy versus dysfunctional groups/families; methods of intervention in dysfunctional groups/families; and the techniques of facilitating treatment groups.

Associate Degree Applicable**Transfers to CSU only****HUMSV 173 3 Units****Helping and Interpersonal Skills****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course offers a practical study of helping strategies and interpersonal skills. The focus is on the use of techniques to improve communication, better evaluate relationships, and resolve conflicts.

Associate Degree Applicable**Transfers to CSU only****HUMSV 179 3 Units****Law and Ethics****Lecture:** 54 contact hours**Advisory:** READ 100 and ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course explores the legal, ethical, professional and personal issues involved in the treatment of substance use disorder. Emphasis is placed on professional responsibility and patient rights as well as issues of the work place and professional growth.

Associate Degree Applicable**Transfers to CSU only****HUMSV 187 1 Unit****Adult Children of Alcoholics****Lecture:** 18 contact hours

Overview of the problems experienced by adult children of alcoholics (ACA's) with particular emphasis on the various approaches in counseling ACA's.

Associate Degree Applicable**Transfers to CSU only**

HUMSV 195A 1 Unit**Human Services: Intern Seminar I****Lecture:** 18 contact hours**Corequisite:** HUMSV 198C or HUMSV 198D or HUMSV 198E or HUMSV 198F

This course provides an introduction and the identification of applied strategies for crisis intervention, case analysis, and therapeutic interventions, and serves as a lecture-based foundation for student field work. STUDENTS MUST ALSO TAKE THE WORK EXPERIENCE CLASS THAT MATCHES THEIR CERTIFICATE GOAL (HUMSV 198 A-Z)

Associate Degree Applicable**Transfers to CSU only****HUMSV 195B 1 Unit****Human Services: Intern Seminar II****Lecture:** 18 contact hours**Corequisite:** HUMSV 198C or HUMSV 198D or HUMSV 198E or HUMSV 198F.

This course provides an evaluation and application of applied strategies for crisis intervention, case analysis, and therapeutic interventions, and serves as a lecture-based foundation for student field work. STUDENTS MUST ALSO TAKE THE WORK EXPERIENCE CLASS THAT MATCHES THEIR CERTIFICATE GOAL (HUMSV 198 A-Z).

Associate Degree Applicable**Transfers to CSU only****HUMSV 198C 2 Units****Human Services Field Work I****WRKEX:** 180 contact hours**Prerequisite:** HUMSV 170 and HUMSV 172 and HUMSV 173 and HUMSV 179**Corequisite:** HUMSV 195A or HUMSV 195B

This course provides supervised field work in the area of Human Services and beginning helping skills at specific agencies. Students work in their assigned agencies a minimum of 10 hours per week.

Associate Degree Applicable**Transfers to CSU only****HUMSV 198D 2 Units****Human Services Field Work II****WRKEX:** 180 contact hours**Prerequisite:** HUMSV 198C**Corequisite:** HUMSV 195A or HUMSV 195B

This course provides supervised field work in the area of Human Services at specific agencies. Students work in their assigned agencies a minimum of 10 hours per week.

Associate Degree Applicable**Transfers to CSU only****HUMSV 198E 2 Units****Career Specialist Field Work****WRKEX:** 180 contact hours**Prerequisite:** HUMSV 170 and HUMSV 172 and HUMSV 173 and HUMSV 147**Corequisite:** HUMSV 195A or HUMSV 195B

This course provides supervised field work in the area of career specialist at specific agencies. Students work in their assigned agencies a minimum of 10 hours per week.

Associate Degree Applicable**Transfers to CSU only****HUMSV 198F 2 Units****Case Management Field Work****WRKEX:** 180 contact hours**Prerequisite:** HUMSV 140 and HUMSV 167 and HUMSV 170 or HUMSV 173**Advisory:** HUMSV 195A or HUMSV 195B

Supervised field work in the area of case management at specific agencies is provided to students. Students work in their assigned agencies a minimum of 10 hours per week.

Associate Degree Applicable**Transfers to CSU only****HUMSV 205 2 Units****Aids: Practices, Processes and Policy****Lecture:** 36 contact hours

An overview of Acquired Immune Deficiency Syndrome (AIDS) including its diagnosis, transmission, and prevention; the psychosocial and economic impact of the disease on patients and their families and friends; society's response to the disease; and effective approaches to assist individuals coping with AIDS.

Associate Degree Applicable**Transfers to CSU only****HUMSV 230 1 Unit****Addiction Studies: Internship Seminar I****Lecture:** 18 contact hours**Corequisite:** HUMSV 232

This course is an introduction to the duties and work objectives of counselors in addiction studies and related fields. Basic skills are developed through discussion and demonstration. This course serves as a lecture-based support for students in fieldwork. (Formerly HUMSV 197A)

Associate Degree Applicable**Transfers to CSU only****HUMSV 231 1 Unit****Addiction Studies: Internship Seminar II****Lecture:** 18 contact hours**Corequisite:** HUMSV 233

This course reviews job skills such as case management, assessment, and counseling. These skills are monitored and enhanced through class discussion and demonstration in this lecture-based foundation to the student field work. (Formerly HUMSV 197B)

Associate Degree Applicable**Transfers to CSU only****HUMSV 232 2 Units****Addiction Studies: Field Work I****Lecture:** 36 contact hours**Corequisite:** HUMSV 230

This course provides supervised field work in the areas of orientation, screening, goal setting and evaluation, and the beginning techniques of alcohol and drug counseling at specific agencies. Students work in their assigned agencies a minimum of 10 hours per week. (Formerly HUMSV 198A)

Associate Degree Applicable**Transfers to CSU only**

HUMSV 233 2 Units

Addiction Studies: Field Work II

Lecture: 36 contact hours

Corequisite: HUMSV 231

This course provides supervised field work in the areas of on the job skills such as treatment planning, intake and assessment and facilitation of groups in the field of alcohol and drug counseling at specific agencies. Students work in their assigned agencies a minimum of 10 hours per week. (Formerly 198B)

Associate Degree Applicable

Transfers to CSU only

HUMSV 281A-Z 0.25-3 Units

Selected Studies in Alcohol/Drug: Addiction Severity Index (ASI)

Lecture: 4.5 contact hours

Explores addictions in the areas of Human Services, Alcohol/Drug Counseling, Mental Health, Human Development, and Corrections. Suggested subjects include codependency, driving under the influence, co-occurring disorders, tobacco addiction, and assessment instruments, etc.

Transfers to CSU only

Addiction Studies Certificate of Achievement

This certificate is designed to provide students with career preparation at the vocational certificate level in the field of substance abuse intervention and counseling for those preparing for careers in substance use disorder counseling or other related human or social services fields.

Code	Title	Units
Required Courses		
HUMSV 130	Introduction to Addiction Studies	3
HUMSV 131	Co-Occur Disorders	3
HUMSV 132	Diverse Populations	3
HUMSV 133	Pharmacology	3
HUMSV 134	Family Dynamics of Addiction	3
HUMSV 135	Prevention, Intervention and Recovery	3
HUMSV 140	Case Management in Public Service	3
HUMSV 179	Law and Ethics	3
Select one of the following:		
HUMSV 170	Introduction to Human Services	3
PSYCH 100	General Psychology	3
or PSYCH 100H	General Psychology - Honors	
SOC 100	Introduction to Sociology	3
or SOC 100H	Introduction to Sociology - Honors	
Required Field Work Courses:		
Prior to field work courses, students must complete at a minimum: HUMSV 130, HUMSV 136, and HUMSV 179.		
HUMSV 136	Addiction Studies: Basic Counseling I	3
HUMSV 137	Addiction Studies: Group Counseling II	3
HUMSV 230	Addiction Studies: Internship Seminar I	1
HUMSV 231	Addiction Studies: Internship Seminar II	1
HUMSV 232	Addiction Studies: Field Work I	2
HUMSV 233	Addiction Studies: Field Work II	2
Total Units		39

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate their understanding of the addiction field, theoretical models of treatment, evidenced based practices, clinical approaches, and ethical implications and professional responsibilities, evaluated by written or objective assessments
- Demonstrate the application of knowledge, skills, attitudes and competency in working with the diverse populations, those meeting the criteria for substance use disorders, families and community prevention and intervention efforts which make up the field of Addiction Counseling, and other critical skills and issues involved in becoming a state certified substance use disorder counselor, as assessed by written or objective assessments

Career Specialist Certificate of Achievement

This certificate is designed to provide students with career preparation at for entry-level employment in community agencies in counseling.

Code	Title	Units
Required Courses		
HUMSV 147	Career Specialist	3
HUMSV 167	Crisis Intervention	3
HUMSV 170	Introduction to Human Services	3
HUMSV 172	Group and Family Dynamics	3
HUMSV 173	Helping and Interpersonal Skills	3
Required Field Work Courses		
A minimum of four Human Services courses required for the certificate including HUMSV 147 should be completed with a grade of C or better prior to field work courses.		
HUMSV 195A	Human Services: Intern Seminar I	1
or HUMSV 195B	Human Services: Intern Seminar II	
HUMSV 198E	Career Specialist Field Work	2
Required General Education Courses		
COMMST 100	Elements of Public Speaking	3
or COMMST 10	Elements of Public Speaking - Honors	
Select one of the following:		
ENGL 015	Preparation for College Writing	
ENGL 101	Freshman Composition	
ENGL 101H	Freshman Composition-Honors	
PSYCH 100	General Psychology	3
or PSYCH 100H	General Psychology - Honors	
SOC 100	Introduction to Sociology	3
or SOC 100H	Introduction to Sociology - Honors	
Total Units		31

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate the applicable skill set for Career Specialist
- Demonstrate their understanding of goals, functions and organizational contemporary human service fields, evaluated by written or objective assessments
- Apply the ethical decision making steps to practical problems and practice learned ethical responsibilities in regard to special populations, scope of practice and the helping of those in human service fields, evaluated by written or objective assessments

Case Management in the Public Sector Certificate of Achievement

This certificate is designed to prepare students for entry-level employment in case management in public social services setting, including the fundamentals of organizational structure, funding, evaluation, assessment and referral, employment services, and career paths.

Code	Title	Units
Required Courses		
HUMSV 140	Case Management in Public Service	3
HUMSV 167	Crisis Intervention	3
HUMSV 170	Introduction to Human Services	3
HUMSV 173	Helping and Interpersonal Skills	3
Required Field Work Courses		
HUMSV 170 must be completed prior to field work courses. Also, it is recommended that students complete two courses from: HUMSV 140, 167, and 173.		
HUMSV 195A or HUMSV 195H	Human Services: Intern Seminar I Human Services: Intern Seminar II	1
HUMSV 198F	Case Management Field Work	2
Required General Education Courses		
CIT 100	Introduction to Personal Computers	3
COMMST 111	Interpersonal Communication	3
COMMST 174	Intercultural Communication	3
Select one of the following:		
ENGL 015	Preparation for College Writing	4
ENGL 101	Freshman Composition	
ENGL 101H	Freshman Composition-Honors	
PSYCH 100 or PSYCH 100H	General Psychology General Psychology - Honors	3
Total Units		31

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate the applicable skill set for Case Management
- Demonstrate their understanding of goals, functions and organizational contemporary human service fields, evaluated by written or objective assessments
- Apply the ethical decision making steps to practical problems and practice learned ethical responsibilities in regard to special populations, scope of practice and the helping of those in human service fields, evaluated by written or objective assessments
- Demonstrate the applicable skill set for Case Management
- Demonstrate their understanding of goals, functions and organizational contemporary human service fields, evaluated by written or objective assessments

Human Services Associate of Arts Degree

To graduate with an Associate Degree with one of the following Human Services certificate specializations, (1) Addiction Studies (2) Career Specialist, (3) Case Management in the Public Sector (4) Eating Disorders Studies, or (5) Human Services, students must complete all of the requirements for the appropriate certificate with a grade of 'C' or better plus the general breadth requirements for the Associate Degree (minimum total = 60 units).

Another option for students who want to graduate with an Associate Degree in Human Services, without one of the certificate specializations, is to complete 18 units from the following required courses for the Human Services major plus the general education breadth requirements for the Associate Degree (minimum total=60 units).

Code	Title	Units
Required Courses		
HUMSV 170	Introduction to Human Services	3
HUMSV 172	Group and Family Dynamics	3
HUMSV 173	Helping and Interpersonal Skills	3
HUMSV 179	Law and Ethics	3
Select six units from the following:		
HUMSV 130	Introduction to Addiction Studies	3
HUMSV 131	Co-Occur Disorders	3
HUMSV 132	Diverse Populations	3
HUMSV 134	Family Dynamics of Addiction	3
HUMSV 135	Prevention, Intervention and Recovery	3
HUMSV 140	Case Management in Public Service	3
HUMSV 167	Crisis Intervention	3
Select one required Behavioral Foundation course:		
PSYCH 100 or PSYCH 100H	General Psychology General Psychology - Honors	3
SOC 100 or SOC 100H	Introduction to Sociology Introduction to Sociology - Honors	3
Total Units		21

Students planning to transfer to a four-year institution and major in Human Services or a related field should consult with a counselor regarding the transfer process and lower division requirements.

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate their understanding of goals, functions and organizational contemporary human service fields, evaluated by written or objective assessments
- Demonstrate the applicable skill set in Humans Services
- Apply the ethical decision-making steps to practical problems and practice learned ethical responsibilities in regard to special populations, scope of practice and the helping of those in human service fields

Human Services Certificate of Achievement

This certificate is designed to prepare students for entry-level employment in human services with a knowledge of intervention methodologies at the individual, group, and community levels.

Code	Title	Units
Required Courses		
HUMSV 167	Crisis Intervention	3
HUMSV 170	Introduction to Human Services	3
HUMSV 172	Group and Family Dynamics	3
HUMSV 173	Helping and Interpersonal Skills	3
HUMSV 179	Law and Ethics	3
SOC 110	Social Problems	3
or SOC 141	Race and Ethnic Relations	
Select two of the following:		6
HUMSV 130	Introduction to Addiction Studies	3
HUMSV 131	Co-Occur Disorders	3
HUMSV 132	Diverse Populations	3
HUMSV 134	Family Dynamics of Addiction	3
HUMSV 135	Prevention, Intervention and Recovery	3
HUMSV 140	Case Management in Public Service	3
HUMSV 147	Career Specialist	3
Required Field Work Courses		
A minimum of four Human Services courses are required from: HUMSV 167, 170, 172, 173, and 179. ¹		
The following two courses are to be taken concurrently:		
HUMSV 195A	Human Services: Intern Seminar I	1
HUMSV 198C	Human Services Field Work I	2
The following two course are to be taken concurrently:		
HUMSV 195B	Human Services: Intern Seminar II	1
HUMSV 198D	Human Services Field Work II	2
Select One Course from the Following:		
ANTHRO 102	Cultural Anthropology	3

or ANTHRO 102H	Cultural Anthropology - Honors	
PSYCH 100	General Psychology	3
or PSYCH 100H	General Psychology - Honors	
SOC 100	Introduction to Sociology	3
or SOC 100H	Introduction to Sociology - Honors	
Total Units		33

¹ Courses must be completed with a grade of C or better prior to field work courses.

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate the applicable skill set in Humans Services
- Demonstrate their understanding of goals, functions and organizational contemporary human service fields, evaluated by written or objective assessments
- Apply the ethical decision making steps to practical problems and practice learned ethical responsibilities in regard to special populations, scope of practice and the helping of those in human service fields, evaluated by written or objective assessments

Inspection Technology

Construction and building inspectors ensure that new construction, changes, or repairs comply with local and national building codes and ordinances, zoning regulations, and contract specifications. Construction and building inspectors examine buildings, highways and streets, sewer and water systems, dams, bridges, and other structures. They also inspect electrical; heating, ventilation, air conditioning, and refrigeration (HVAC/R); and plumbing systems.

Although no two inspections are alike, inspectors do an initial check during the first phase of construction and follow-up inspections throughout the construction project. When the project is finished, they do a final, comprehensive inspection. Inspectors work alone or as part of a team. Some inspectors may have to climb ladders or crawl in tight spaces. Most work full time during regular business hours. Concern for public safety and a desire to improve the quality of construction are expected to spur employment growth in the field.

Contact Information

Division: Applied Technology, Transportation, and Culinary Arts (T - 108)

Division Phone Number: (909) 384-4451

Faculty Chairs: Bryce Cacho (bcacho@sbccd.edu), M.A. and Joshua Milligan (jmilligan@sbccd.edu), A.S.

- Inspection Technology Associate of Science Degree (p. 207)
- Inspection Technology Certificate of Achievement (p. 208)
- Inspection Technology Certificate of Completion (p. 208)

INSPEC 011 3 Units**Fundamentals of Construction Inspection: Soils and Concrete****Lecture:** 54 contact hours

This course provides a basic study of soils engineering, soils construction methods, soils identification, soils terminology, concrete and asphalt including cements, aggregates, admixtures, job and batch control, properties of concrete, finishing, curing, reinforcing and nomenclature for inspectors.

Associate Degree Applicable**INSPEC 012 3 Units****Fundamentals of Construction Inspection: Wood, Steel, Masonry****Lecture:** 54 contact hours

This course is a basic study of structures, including wood, steel, and masonry construction, building occupancies, construction and separations, acoustics and sound control (formerly INSPEC 012B).

Associate Degree Applicable**INSPEC 013 3 Units****Advanced Construction Inspection: International Building Code (IBC)****Lecture:** 54 contact hours

This course provides for inspectors a study of the International Building Code (IBC) including application, interpretation, and use of the code (formerly INSPEC 013D).

Associate Degree Applicable**INSPEC 014 3 Units****Advanced Construction Inspection: National Electrical Code (NEC)****Lecture:** 54 contact hours

This course provides an understanding of the National Electrical Code and a study of its applications (formerly INSPEC 014D).

Associate Degree Applicable**INSPEC 015 3 Units****Advanced Construction Inspection: Uniform Plumbing Code (UPC)****Lecture:** 54 contact hours

This course is a study, interpretation and application of the CA Plumbing Code (CPC) (Formerly INSPEC 015D).

Associate Degree Applicable**INSPEC 016 3 Units****Advanced Construction Inspection: Uniform Mechanical Code (UMC)****Lecture:** 54 contact hours

This course is a study of the requirements for the design, construction, installation and maintenance of heating, ventilating, cooling, refrigeration systems, incinerators and other heat-producing appliances required by the CA Mechanical Code (CMC) (formerly INSPEC 016D).

Associate Degree Applicable**INSPEC 017 3 Units****California State Energy Regulations for Residential Buildings****Lecture:** 54 contact hours

This course is a study of the basic compliance requirements of the California Title 24 Energy Efficiency Standards for residential buildings and the 2016 CA Green Building Standards Code. It includes prescriptive and performance methods such as alternative packages and computer models (formerly INPSEC 017D).

Associate Degree Applicable**INSPEC 018 3 Units****California State Energy Regulations for Non-Residential Buildings****Lecture:** 54 contact hours

This course studies basic compliance with California Title 24 Energy Efficiency Standards for non-residential buildings and CA Green Building Standards Code. It includes prescriptive and performance methods such as alternative packages and computer models (formerly INPSEC 018D).

Associate Degree Applicable**INSPEC 026 3 Units****Non-Structural Plan Review****Lecture:** 54 contact hours

This course provides training in the application of the CA Codes to construction drawings, including legal requirements for non-structural plan review, local, State, and Federal laws applicable to construction drawings, and the use of plan reviews as a first step in performing consistent and thorough inspections (formerly INSPEC 026D).

Associate Degree Applicable**INSPEC 027 3 Units****Structural Plan Review****Lecture:** 54 contact hours

This is a basic study of simplified engineering that can be applied to both plan checking and field inspections.

Associate Degree Applicable**INSPEC 028 3 Units****California Residential Code****Lecture:** 54 contact hours

This course provides building and safety personnel with a study of the California Residential Code (CRC) including application, interpretation, and use of the code.

Associate Degree Applicable**INSPEC 029 3 Units****Community Relations for Building Personnel****Lecture:** 54 contact hours

This course covers the development of oral and written communication skills for code enforcement personnel and an introduction to community relations for civil service employees. Topics include the proper methods of dealing with different types of encounters that an inspector may have with do-it-yourself homeowners, contractors, developers, etc. and the legal aspects of code administration and enforcement.

Associate Degree Applicable**INSPEC 030 3 Units****Aspects of Building and Safety****Lecture:** 54 contact hours

This course prepares students for the basic administrative functions of building and safety including: Title 25, Disabled access, staff roles, permit and plan checking, building inspection, and code enforcement.

Associate Degree Applicable**INSPEC 098 1-4 Units****Inspection Technology Work Experience****WRKEX:** 300 contact hours

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable

INSPEC 611 Noncredit**Fundamentals of Construction Inspection: Soils and Concrete****Lecture:** 54 contact hours

This noncredit course provides a basic study of soils engineering, soils construction methods, soils identification, soils terminology, concrete and asphalt including cements, aggregates, admixtures, job and batch control, properties of concrete, finishing, curing, reinforcing and nomenclature for inspectors.

INSPEC 612 Noncredit**Fundamentals of Construction Inspection: Wood, Steel, Masonry****Lecture:** 54 contact hours

This noncredit course is a basic study of structures, including wood, steel, and masonry construction, building occupancies, construction and separations, acoustics and sound control.

INSPEC 613 Noncredit**Advanced Construction Inspection: International Building Code (IBC)****Lecture:** 54 contact hours

This noncredit course provides for inspectors a study of the International Building Code (IBC) including application, interpretation, and use of the code.

INSPEC 614 Noncredit**Advanced Construction Inspection: National Electrical Code (NEC)****Lecture:** 54 contact hours

This noncredit course provides an understanding of the National Electrical Code and a study of its applications.

INSPEC 615 Noncredit**Advanced Construction Inspection: Uniform Plumbing Code (UPC)****Lecture:** 54 contact hours

This noncredit course is a study, interpretation and application of the CA Plumbing Code (CPC).

INSPEC 616 Noncredit**Advanced Construction Inspection: Uniform Mechanical Code (UMC)****Lecture:** 54 contact hours

This noncredit course is a study of the requirements for the design, construction, installation and maintenance of heating, ventilating, cooling, refrigeration systems, incinerators and other heat-producing appliances required by the CA Mechanical Code (CMC).

INSPEC 617 Noncredit**California State Energy Regulations for Residential Buildings****Lecture:** 54 contact hours

This noncredit course is a study of the basic compliance requirements of the California Title 24 Energy Efficiency Standards for residential buildings and the 2016 CA Green Building Standards Code. It includes prescriptive and performance methods such as alternative packages and computer models.

INSPEC 618 Noncredit**California State Energy Regulations For Non-Residential Buildings****Lecture:** 54 contact hours

This noncredit course studies basic compliance with California Title 24 Energy Efficiency Standards for non-residential buildings and CA Green Building Standards Code. It includes prescriptive and performance methods such as alternative packages and computer models.

INSPEC 626 Noncredit**Non-Structural Plan Review****Lecture:** 54 contact hours

This noncredit course provides training in the application of the CA Codes to construction drawings, including legal requirements for non-structural plan review, local, State, and Federal laws applicable to construction drawings, and the use of plan reviews as a first step in performing consistent and thorough inspections.

INSPEC 627 Noncredit**Structural Plan Review****Lecture:** 54 contact hours

This is a noncredit basic study of simplified engineering that can be applied to both plan checking and field inspections.

INSPEC 628 Noncredit**California Residential Code****Lecture:** 54 contact hours

This noncredit course provides building and safety personnel with a study of the California Residential Code (CRC) including application, interpretation, and use of the code.

INSPEC 629 Noncredit**Community Relations for Building Personnel****Lecture:** 54 contact hours

This noncredit course covers the development of oral and written communication skills for code enforcement personnel and an introduction to community relations for civil service employees. Topics include the proper methods of dealing with different types of encounters that an inspector may have with do-it-yourself homeowners, contractors, developers, etc. and the legal aspects of code administration and enforcement.

INSPEC 630 Noncredit**Aspects of Building and Safety****Lecture:** 54 contact hours

This noncredit course prepares students for the basic administrative functions of building and safety including: Title 25, Disabled access, staff roles, permit and plan checking, building inspection, and code enforcement.

Inspection Technology Associate of Science Degree

This degree is designed to prepare students for entry-level employment in construction inspection, International Code Council (ICC) certification examinations, and understanding of construction, alteration, or repair of buildings. Students will develop the skills to ensure compliance with building codes and ordinances, zoning regulations, and contract specifications. To graduate with a specialization in Inspection Technology, students must complete the following required courses for the certificate plus the general breadth requirements for the Associate of Science Degree (minimum total = 60 units).

Code	Title	Units
Required Courses		
INSPEC 011	Fundamentals of Construction Inspection: Soils and Concrete	3
INSPEC 012	Fundamentals of Construction Inspection: Wood, Steel, Masonry	3
INSPEC 013	Advanced Construction Inspection: International Building Code (IBC)	3
INSPEC 014	Advanced Construction Inspection: National Electrical Code (NEC)	3

INSPEC 015	Advanced Construction Inspection: Uniform Plumbing Code (UPC)	3
INSPEC 016	Advanced Construction Inspection: Uniform Mechanical Code (UMC)	3
INSPEC 017	California State Energy Regulations for Residential Buildings	3
INSPEC 018	California State Energy Regulations for Non-Residential Buildings	3
INSPEC 026	Non-Structural Plan Review	3
INSPEC 027	Structural Plan Review	3
INSPEC 028	California Residential Code	3
INSPEC 029	Community Relations for Building Personnel	3
INSPEC 030	Aspects of Building and Safety	3
Total Units		39

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Examine construction methods to verify local and state requirements are met
- Verify that construction (new, alteration, or repair) meets applicable building codes
- Read and analyze construction plans to determine compliance with local and state requirements
- Effectively and clearly communicate
- Understand and apply the California and National Building Codes

Inspection Technology Certificate of Achievement

This certificate is designed to prepare students for entry-level employment in construction inspection, International Code Council (ICC) certification examinations, and understanding of construction, alteration, or repair of buildings. Students will develop the skills to ensure compliance with building codes and ordinances, zoning regulations, and contract specifications.

Code	Title	Units
Required Courses		
INSPEC 011	Fundamentals of Construction Inspection: Soils and Concrete	3
INSPEC 012	Fundamentals of Construction Inspection: Wood, Steel, Masonry	3
INSPEC 013	Advanced Construction Inspection: International Building Code (IBC)	3

INSPEC 014	Advanced Construction Inspection: National Electrical Code (NEC)	3
INSPEC 015	Advanced Construction Inspection: Uniform Plumbing Code (UPC)	3
INSPEC 016	Advanced Construction Inspection: Uniform Mechanical Code (UMC)	3
INSPEC 017	California State Energy Regulations for Residential Buildings	3
INSPEC 018	California State Energy Regulations for Non-Residential Buildings	3
INSPEC 026	Non-Structural Plan Review	3
INSPEC 027	Structural Plan Review	3
INSPEC 028	California Residential Code	3
INSPEC 029	Community Relations for Building Personnel	3
INSPEC 030	Aspects of Building and Safety	3
Total Units		39

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Examine construction methods to verify local and state requirements are met
- Verify that construction (new, alteration, or repair) meets applicable building codes
- Read and analyze construction plans to determine compliance with local and state requirements
- Effectively and clearly communicate
- Understand and apply the California and National Building Codes

Inspection Technology Certificate of Completion

This noncredit certificate is designed to prepare students for entry-level employment in construction inspection, International Code Council (ICC) certification examinations, and understanding of construction, alteration, or repair of buildings. Students will develop the skills to ensure compliance with building codes and ordinances, zoning regulations, and contract specifications. Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

Code	Title	Units
Required Courses		
INSPEC 611	Fundamentals of Construction Inspection: Soils and Concrete	48-54
INSPEC 612	Fundamentals of Construction Inspection: Wood, Steel, Masonry	48-54
INSPEC 613	Advanced Construction Inspection: International Building Code (IBC)	48-54
INSPEC 614	Advanced Construction Inspection: National Electrical Code (NEC)	48-54
INSPEC 615	Advanced Construction Inspection: Uniform Plumbing Code (UPC)	48-54

INSPEC 616	Advanced Construction Inspection: Uniform Mechanical Code (UMC)	48-54
INSPEC 617	California State Energy Regulations for Residential Buildings	48-54
INSPEC 618	California State Energy Regulations For Non-Residential Buildings	48-54
INSPEC 626	Non-Structural Plan Review	48-54
INSPEC 627	Structural Plan Review	48-54
INSPEC 628	California Residential Code	48-54
INSPEC 629	Community Relations for Building Personnel	48-54
INSPEC 630	Aspects of Building and Safety	48-54
Total Hours		624-702

Program Learning Outcomes

At the completion of this program, students will be able to:

- Examine construction methods to verify local and state requirements are met
- Verify that construction (new, alteration, or repair) meets applicable building codes
- Read and analyze construction plans to determine compliance with local and state requirements
- Effectively and clearly communicate
- Understand and apply the California and National Building Codes

Kinesiology and Health

Courses in the Kinesiology and Health Department are designed to increase students' skills in activities that produce physiological results and promote lifelong habits of fitness. Within this department, courses are grouped in two areas: Health Education and Kinesiology. Four-year graduates in Health Education and Kinesiology qualify for employment in private industry and recreational agencies and are prepared to seek teaching credentials in elementary or secondary education. Students planning to transfer to a four-year institution and major in kinesiology or related fields should consult with a counselor regarding the transfer process and lower division requirements.

Contact Information

Division: Social Science, Human Development, and Physical Education (NH - 345)

Division Phone Number: (909) 384-8603

Faculty Chair: Erwin (John) Banola (ebanola@sbccd.edu), M.S.

-
- Kinesiology Associate of Arts Degree (p. 219)
 - Kinesiology Associate of Arts Transfer Degree (p. 221)

HEALTH 101 3 Units

Health Education

Lecture: 54 contact hours

This course is an exploration of health topics and their impact on an individual's health status. Awareness and assessment of current lifestyle behaviors and choices, identification of risk factors, and implementation of prevention strategies are emphasized.

Associate Degree Applicable

Transfers to both UC/CSU

HEALTH 103 3 Units

Introduction to Holistic Health

Lecture: 54 contact hours

Advisory: ENGL 101 or ENGL 101H

This course is an introduction to health and healing practices involving the integration of physical, mental, spiritual, and social resources. Students explore ancient disciplines of Ayurveda, Yoga, and Chinese Medicine, as well as modern Western health systems like Biofeedback, Swedish Massage, Reiki, Meditation, Guided Imagery, Herbalism, Humor and Music Therapy. Emphasis is placed on health promotion and prevention of disease, and how we become self-advocates in promoting our own well-being with the assistance of health care professionals.

Associate Degree Applicable

Transfers to both UC/CSU

KIN 098 1-4 Units

Kinesiology Work Experience

WRKEX: 300 contact hours

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable

KIN 200 3 Units

Introduction to Physical Education and Kinesiology

Lecture: 54 contact hours

Advisory: ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This introductory course provides an interdisciplinary approach to the study of human movement. An overview of the importance of the sub-disciplines in kinesiology will be discussed along with career opportunities in the areas of teaching, coaching, allied health, and fitness professions.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: KIN 100

KIN 201 3 Units

Mental Skills for Sport Performance

Lecture: 54 contact hours

This course develops an understanding of the mental aspects of sport performance and the mental skills that can be used to enhance sport performance.

Associate Degree Applicable

Transfers to both UC/CSU

KIN 202 3 Units

History of Physical Education and Sport In the United States

Lecture: 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is designed to explore the evolution of sport and physical activity. Topics include historical and philosophical influences from ancient societies through the present.

Associate Degree Applicable

Transfers to both UC/CSU

KIN 203 3 Units**Theory of Coaching****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course explores the issues and problems facing the coach today. Topics include the philosophies, theories and principles of developing and maintaining an athletic program. This course is designed for coaches at various levels from youth to high school varsity.

Associate Degree Applicable**Transfers to both UC/CSU****KIN 210 2 Units****Sports Officiating****Lecture:** 36 contact hours

This course is designed to provide instruction on the rules, techniques, and mechanics of officiating the sports of soccer, football, basketball, and baseball.

Associate Degree Applicable**Transfers to both UC/CSU****KIN 222 1-3 Units****Independent Study in Kinesiology****DIR:** 54 contact hours

Students with previous course work in Kinesiology/Physical Education may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of Kinesiology/Physical Education. Prior to registration, a written contract must be prepared jointly by the instructor and the student. See instructor for details.

Associate Degree Applicable**Transfers to CSU, Limited to UC, Credit Determined After Transfer****KIN 231 3 Units****First Aid and CPR****Lecture:** 54 contact hours

This course provides instruction on emergency care and treatment of illnesses and injuries including training in cardiopulmonary resuscitation (CPR) and automated external defibrillation (AED). Students who successfully pass all CPR/AED and First Aid requirements will receive a CPR/AED and First Aid card.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** KIN 101**KIN 232 3 Units****Prevention and Care of Athletic Injuries****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** KIN 231

This is an introductory course in the recognition, assessment, management, care, and prevention of injuries occurring during physical activities. Basic taping techniques, as well as the proper selection and use of treatment modalities, are included.

Associate Degree Applicable**Transfers to both UC/CSU****KIN 236 3 Units****Stress Management and Wellness****Lecture:** 54 contact hours

This course covers stress with emphasis on the physiological, psychological, and sociological issues throughout the lifespan. Topics include: recognition and analysis of symptoms of stress, scientific studies, assessment tools, fitness programs, meditation, yoga, nutrition, weight control, and healthy habits that enhance health and well-being.

Associate Degree Applicable**Transfers to CSU only****KINA 186A 1 Unit****Adapted: Beginning Stretching and Stress Reduction****Lab:** 54 contact hours

This course is designed to teach students with disabilities how to improve range of motion for various muscles in the human body using beginning level stretching techniques. This course also teaches basic techniques for stress reduction. A completed adapted physical education participation form may be required prior to participation in this class.

Associate Degree Applicable**Transfers to both UC/CSU****KINA 186B 1 Unit****Adapted: Intermediate Stretching and Stress Reduction****Lab:** 54 contact hours**Advisory:** KINA 186A

This course is designed to teach students with disabilities how to improve range of motion for various muscles in the human body using intermediate level stretching techniques. This course also teaches intermediate level techniques for stress reduction. A completed adapted physical education participation form may be required prior to participation in this class.

Associate Degree Applicable**Transfers to both UC/CSU****KINA 186C 1 Unit****Adapted: Advanced Stretching and Stress Reduction****Lab:** 54 contact hours**Advisory:** KINA 186B

This course is designed to teach students with disabilities how to improve range of motion for various muscles in the human body using advanced stretching techniques. This course also teaches advanced techniques for stress reduction. A completed adapted physical education participation form may be required prior to participation in this class.

Associate Degree Applicable**Transfers to both UC/CSU****KINA 188A 1 Unit****Adapted: Beginning Fitness and Conditioning****Lab:** 54 contact hours

This course is designed to teach students with disabilities beginner level exercises to improve functional range of motion, muscular strength and cardiovascular endurance. A completed adapted physical education participation form may be required prior to participation in this class.

Associate Degree Applicable**Transfers to both UC/CSU**

KINA 188B 1 Unit**Adapted: Intermediate Fitness and Conditioning****Lab:** 54 contact hours**Advisory:** KINA 188A

This course is designed to teach students with disabilities intermediate level exercise techniques to improve range of motion, muscular strength and cardiovascular endurance. A completed adapted physical education participation form may be required prior to participation in this class.

Associate Degree Applicable**Transfers to both UC/CSU****KINA 188C 1 Unit****Adapted: Advanced Fitness and Conditioning****Lab:** 54 contact hours**Advisory:** KINA 188B

This course is designed to teach students with disabilities advanced level exercises for maximizing range of motion, muscular strength and cardiovascular endurance. Designing and leading an exercise program is also taught. A completed adapted physical education participation form may be required prior to participation in this class.

Associate Degree Applicable**Transfers to both UC/CSU****KINA 189A 1 Unit****Adapted: Beginning Resistance Training****Lab:** 54 contact hours

This course is designed for students with disabilities. This course provides instruction in beginning level physical activities to improve muscular strength and endurance. A completed adapted physical education participation form may be required prior to participation in this class.

Associate Degree Applicable**Transfers to both UC/CSU****KINA 189B 1 Unit****Adapted: Intermediate Resistance Training****Lab:** 54 contact hours**Advisory:** KINA 189A

This course is designed for students with disabilities. This course provides instruction in intermediate level physical activities to improve muscular strength and endurance. A completed adapted physical education participation form may be required prior to participation in this class.

Associate Degree Applicable**Transfers to both UC/CSU****KINA 189C 1 Unit****Adapted: Advanced Resistance Training****Lab:** 54 contact hours**Advisory:** KINA 189B

This course is designed for students with disabilities. This course provides instruction in advanced level physical activities to improve muscular strength and endurance. A completed adapted physical education participation form may be required prior to participation in this class.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 101A 1 Unit****Beginning Boxing for Fitness****Lab:** 54 contact hours

This course is designed to teach beginning level boxing skills and techniques. Boxing movements and drills will be utilized to help students improve cardiovascular conditioning, muscular endurance, balance, and coordination.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 101B 1 Unit****Intermediate Boxing for Fitness****Lab:** 54 contact hours**Advisory:** KINF 101A

This course is designed to teach intermediate level boxing skills and techniques. Boxing movements and drills will be utilized to help students improve cardiovascular conditioning, muscular endurance, balance, and coordination.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 101C 1 Unit****Advanced Boxing for Fitness****Lab:** 54 contact hours**Advisory:** KINF 101B

This course is designed to teach advanced level boxing skills and techniques. Boxing movements and drills will be utilized to help students improve cardiovascular conditioning, muscular endurance, balance, and coordination.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 105A 1 Unit****Beginning Low Impact Aerobics****Lab:** 54 contact hours

This course is designed to teach basic fitness concepts and beginning level movement skills to enhance strength, flexibility, endurance, movement memory, balance, coordination, and cardiovascular fitness.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 105B 1 Unit****Intermediate Low Impact Aerobics****Lab:** 54 contact hours**Advisory:** KINF 105A

This course is designed to teach intermediate level fitness concepts and movement skills to enhance strength, flexibility, endurance, movement memory, balance, coordination, and cardiovascular fitness. Students will also learn how to design a basic step aerobics program.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 105C 1 Unit****Advanced Low Impact Aerobics****Lab:** 54 contact hours**Advisory:** KINF 105B

This course is designed to teach advanced level fitness concepts and movement skills to enhance strength, flexibility, endurance, movement memory, balance, coordination, and cardiovascular fitness. Students will also learn how to design an intermediate level step aerobics program.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 108A 1 Unit****Beginning Weight Training****Lab:** 54 contact hours

The course is designed to teach beginning level students safe and proper technique for resistance exercises. Students will use free weights and universal machines to develop muscle strength and endurance. Students of all ability levels will receive individual instruction and personally tailored programs.

Associate Degree Applicable**Transfers to both UC/CSU**

KINF 108B 1 Unit**Intermediate Weight Training****Lab:** 54 contact hours**Advisory:** KINF 108A

The course is designed to teach safe and proper intermediate level techniques for resistance exercises, including multi-joint movements. Students will use free weights and universal machines to develop muscle strength and endurance. Students of all ability levels will receive individual instruction and create personally tailored programs.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 108C 1 Unit****Advanced Weight Training****Lab:** 54 contact hours**Advisory:** KINF 108B

The course is designed to teach safe and proper advanced level technique for resistance exercises. Students will use free weights, Olympic platforms, and universal machines to develop muscle strength and endurance through multi-joint and Olympic lift exercises. Students of all ability levels will receive individual instruction and create personally tailored programs.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 112A 1 Unit****Beginning Body Conditioning****Lab:** 54 contact hours

This course is designed to teach beginner level fitness concepts and movement skills to improve overall cardiovascular fitness, as well as muscular strength and endurance. Instruction will be modified to accommodate students of all fitness and skill levels.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 112B 1 Unit****Intermediate Body Conditioning****Lab:** 54 contact hours**Advisory:** KINF 112A

This course is designed to teach intermediate level fitness concepts and movement skills to improve overall cardiovascular fitness, as well as muscular strength and endurance.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 112C 1 Unit****Advanced Body Conditioning****Lab:** 54 contact hours**Advisory:** KINF 112B

This course is designed to teach advanced level fitness concepts and movement skills to improve overall cardiovascular fitness, as well as muscular strength and endurance.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 127A 1 Unit****Beginning Walking for Fitness****Lab:** 54 contact hours

The course is designed to help improve cardiovascular endurance and overall fitness through walking. Beginning level training principles and proper technique will be taught to promote this lifelong activity.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 127B 1 Unit****Intermediate Walking for Fitness****Lab:** 54 contact hours**Advisory:** KINF 127A

The course is designed to help improve cardiovascular endurance and overall fitness through walking. Intermediate level training principles, technique and program design will be taught to promote this lifelong activity.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 127C 1 Unit****Advanced Walking for Fitness****Lab:** 54 contact hours**Advisory:** KINF 127B

The course is designed to help improve cardiovascular endurance and overall fitness through walking. Advanced level training principles, technique program design and injury prevention and care will be taught to promote this lifelong activity.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 132A 1 Unit****Beginning Distance Running****Lab:** 54 contact hours

In this course, students will learn beginner level skills, techniques, and strategies of distance running. Instruction will focus on improving the student's running efficiency, cardiovascular fitness, and distance running knowledge.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 132B 1 Unit****Intermediate Distance Running****Lab:** 54 contact hours**Advisory:** KINF 132A

In this course, students will learn intermediate level skills, techniques, and strategies of distance running. Instruction will focus on improving the student's running efficiency, cardiovascular fitness, running biomechanics and strategy development.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 132C 1 Unit****Advanced Distance Running****Lab:** 54 contact hours**Advisory:** KINF 132B

In this course, students will learn advanced level skills, techniques, and strategies of distance running. Instruction will focus on maximizing running efficiency, improving cardiovascular fitness, and practicing various race strategies.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 138A 1 Unit****Beginning Physical Fitness****Lab:** 54 contact hours

This course is a structured exercise class designed to help students participate in a beginning level exercise program including cardiovascular endurance, muscular strength and flexibility training. Instructor guided equipment orientation, fitness testing, and exercise technique are provided.

Associate Degree Applicable**Transfers to both UC/CSU**

KINF 138B 1 Unit**Intermediate Physical Fitness****Lab:** 54 contact hours**Advisory:** KINF 138A

The course is a structured exercise class designed to help intermediate level students develop and participate in a balanced exercise program including cardiovascular endurance, muscular strength and flexibility training. Instructor guided equipment orientation, fitness testing, exercise technique, and individualized programming are provided.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 138C 1 Unit****Advanced Physical Fitness****Lab:** 54 contact hours**Advisory:** KINF 138B

This course is a structured exercise class designed to help advanced level students develop a balanced exercise program including cardiovascular endurance, muscular strength and flexibility training. Instructor guided equipment orientation, fitness testing, exercise technique, and individualized programming are provided.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 142A 1 Unit****Beginning Conditioning for Sports****Lab:** 54 contact hours

This course is designed to teach beginning level students muscular strength and endurance exercises, flexibility and core training skills and cardiovascular fitness. It is geared toward improving skills for participation in sports.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 142B 1 Unit****Intermediate Conditioning for Sports****Lab:** 54 contact hours**Advisory:** KINF 142A

This course is designed to teach intermediate level students muscular strength and endurance exercises, flexibility and core training skills and cardiovascular fitness. It is geared toward improving skills for participation in sports.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 142C 1 Unit****Advanced Conditioning for Sports****Lab:** 54 contact hours**Advisory:** KINF 142B

This course is designed to teach advanced level students muscular strength and endurance exercises, flexibility and core training skills and cardiovascular fitness. It is geared toward improving skills for participation in sports.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 150A 1 Unit****Beginning Table Tennis****Lab:** 54 contact hours

This course is designed to teach beginning table tennis skills and techniques. Students will learn the fundamental instruction of basic strokes, rules, and scoring strategies.

Associate Degree Applicable**Transfers to CSU only****KINF 150B 1 Unit****Intermediate Table Tennis****Lab:** 54 contact hours**Advisory:** KINF 150A

This course is designed to teach intermediate table tennis skills and techniques. Students will learn overhead shots, volleying techniques, singles strategies, and a variety of other shots.

Associate Degree Applicable**Transfers to CSU only****KINF 150C 1 Unit****Advanced Table Tennis****Lab:** 54 contact hours**Advisory:** KINF 150B

This course is designed to teach advanced table tennis skills and techniques. Students will learn shot selection strategies, doubles strategies, opponent evaluation, and tournament play skills.

Associate Degree Applicable**Transfers to CSU only****KINF 168A 1 Unit****Beginning Yoga****Lab:** 54 contact hours

This course is designed to introduce and practice beginning level Hatha Yoga. Improvement in balance, flexibility, muscle strength and endurance will be introduced. Meditation, breathing and relaxation techniques will be employed to assist in stress reduction.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 168B 1 Unit****Intermediate Yoga****Lab:** 54 contact hours**Advisory:** KINF 168A

This activity course is designed to teach the practice of intermediate level Hatha Yoga. Improvement in balance, flexibility, muscle strength and endurance will be emphasized. Meditation, breathing and relaxation techniques will be employed to assist in stress reduction.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 168C 1 Unit****Advanced Yoga****Lab:** 54 contact hours**Advisory:** KINF 168B

This activity course is designed to teach students advanced level Hatha Yoga as well as creating and leading a yoga flow sequence. Maximizing balance, flexibility, muscle strength and endurance will be emphasized. Meditation, breathing and relaxation techniques will be employed to assist in stress reduction.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 190A 1 Unit****Beginning Tai Chi****Lab:** 54 contact hours

This course is designed to study and practice Tai Chi at the beginning level. The history, research, and benefits of Tai Chi will be examined, and the basic 12 forms of Tai Chi will be explored. The course will include individual and group instruction and practice.

Associate Degree Applicable**Transfers to both UC/CSU**

KINF 190B 1 Unit**Intermediate Tai Chi****Lab:** 54 contact hours**Advisory:** KINF 190A

This course is designed to study and practice Tai Chi at the intermediate level. The benefits of Tai Chi will be examined, and the basic 24 forms of Tai Chi will be explored. The course will include individual and group instruction and practice.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 190C 1 Unit****Advanced Tai Chi****Lab:** 54 contact hours**Advisory:** KINF 190B

This course is designed to study and practice Tai Chi at the advanced level. The relationship between Tai Chi and well-being will be examined, and the basic 42 forms of Tai Chi will be explored. The course will include individual and group instruction and practice.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 100A 1 Unit****Beginning Baseball****Lab:** 54 contact hours

This course is designed to teach beginning level skills, techniques, strategies, etiquette, and rules of baseball.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 100B 1 Unit****Intermediate Baseball****Lab:** 54 contact hours**Advisory:** KINS 100A

This course is designed to teach intermediate level skills, techniques, strategies, etiquette, and rules of baseball.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 100C 1 Unit****Advanced Baseball****Lab:** 54 contact hours**Advisory:** KINS 100B

This course is designed to teach advanced level skills, techniques, strategies, etiquette, and rules of baseball.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 103A 1 Unit****Beginning Badminton****Lab:** 54 contact hours

This course will provide beginning level instruction in the skills, techniques, strategies, etiquette and rules of badminton. With the application of these techniques and practice, students will improve their overall fitness.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 103B 1 Unit****Intermediate Badminton****Lab:** 54 contact hours**Advisory:** KINS 103A

This course will provide instruction in the skills, techniques and strategies of badminton at the intermediate level of performance. With the application of these techniques and practice, students will improve their overall fitness.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 103C 1 Unit****Advanced Badminton****Lab:** 54 contact hours**Advisory:** KINS 103B

This course will provide instruction in the skills, techniques and strategies of badminton at an advanced level of performance. With the application of these techniques and practice, students will improve their overall fitness.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 104A 1 Unit****Beginning Basketball****Lab:** 54 contact hours

This course is designed to teach the skills, techniques, strategies, etiquette and rules of basketball at a beginning level of performance. Students may also improve their overall physical fitness.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 104B 1 Unit****Intermediate Basketball****Lab:** 54 contact hours**Advisory:** KINS 104A

This course is designed to teach the skills, techniques, strategies, etiquette and rules of basketball at an intermediate level of performance. Students may also improve their overall physical fitness.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 104C 1 Unit****Advanced Basketball****Lab:** 54 contact hours**Advisory:** KINS 104B

This course is designed to teach the skills, techniques, strategies, etiquette and rules of basketball at an advanced level of performance. Students may also improve their overall physical fitness.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 108A 1 Unit****Beginning Football****Lab:** 54 contact hours

This activity course is designed to introduce students to the skills, techniques, strategy, rules as well as ethics of football at the beginner level.

Associate Degree Applicable**Transfers to both UC/CSU**

KINS 108B 1 Unit**Intermediate Football****Lab:** 54 contact hours**Advisory:** KINS 108A

This activity course is designed to introduce students to the skills, techniques, strategy, rules as well as ethics of football at the intermediate level.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 108C 1 Unit****Advanced Football****Lab:** 54 contact hours**Advisory:** KINS 108B

This activity course is designed to introduce students to the skills, techniques, strategy, rules as well as ethics of football at the advanced level.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 112A 1 Unit****Beginning Indoor Soccer****Lab:** 54 contact hours

This course is designed to teach beginning level rules, skills and techniques of indoor soccer, as well as individual and team strategies for game play.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 112B 1 Unit****Intermediate Indoor Soccer****Lab:** 54 contact hours**Corequisite:** KINS 112A

This course is designed to teach intermediate level skills and techniques of indoor soccer, as well as individual and team strategies for game play.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 112C 1 Unit****Advanced Indoor Soccer****Lab:** 54 contact hours**Prerequisite:** KINS 112B

This course is designed to teach advanced level skills and techniques of indoor soccer, as well as individual and team strategies for game play.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 116A 1 Unit****Beginning Soccer****Lab:** 54 contact hours

This course will provide beginning level instruction in the skills, techniques, strategies and rules of soccer. With the application of these techniques and practice, students may also improve their overall fitness.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 116B 1 Unit****Intermediate Soccer****Lab:** 54 contact hours**Advisory:** KINS 116A

This course will provide instruction in the skills, techniques and strategies of soccer at the intermediate level of performance. With the application of these techniques and practice, students may also improve their overall fitness.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 116C 1 Unit****Advanced Soccer****Lab:** 54 contact hours**Advisory:** KINS 116B

This course will provide instruction in the skills, techniques and strategies of soccer at the advanced level of performance. With the application of these techniques and practice, students may also improve their overall fitness.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 120A 1 Unit****Beginning Softball****Lab:** 54 contact hours

This course will provide instruction in the skills, techniques, strategies, etiquette and rules of softball at the beginner level of performance. With the application of these techniques and practice, students will improve their overall fitness.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 120B 1 Unit****Intermediate Softball****Lab:** 54 contact hours**Advisory:** KINS 120A

This course will provide instruction in the skills, techniques, strategies, etiquette and rules of softball at the intermediate level of performance. With the application of these techniques and practice, students will improve their overall fitness.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 120C 1 Unit****Advanced Softball****Lab:** 54 contact hours**Advisory:** KINS 120B

This course will provide instruction in the skills, techniques, strategies, etiquette and rules of softball at an advanced level of performance. With the application of these techniques and practice, students will improve their overall fitness.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 124A 1 Unit****Beginning Volleyball****Lab:** 54 contact hours

This course is designed to teach the skills, techniques, strategies, etiquette and rules of volleyball at the beginning level of performance. Students may also improve their overall physical fitness.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 124B 1 Unit****Intermediate Volleyball****Lab:** 54 contact hours**Advisory:** KINS 124A

This course is designed to teach the skills, techniques, strategies, etiquette and rules of volleyball at an intermediate level of performance. Students may also improve their overall physical fitness.

Associate Degree Applicable**Transfers to both UC/CSU**

KINS 124C 1 Unit**Advanced Volleyball****Lab:** 54 contact hours**Advisory:** KINS 124B

This course is designed to teach the skills, techniques, strategies, etiquette and rules of volleyball at an advanced level of performance. Students may also improve their overall physical fitness.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 110AX3 3 Units****Intercollegiate Cross Country - Men****Lab:** 162 contact hours

This course is intended for members of the Men's Intercollegiate Cross-Country team. The course will provide instruction and training in the skills, knowledge, techniques, strategies, conditioning and teamwork required for intercollegiate cross-country competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 110BX3 1 Unit****Intercollegiate Cross Country - Men Pre-Season Athletics****Lab:** 54 contact hours

This course is designed for pre-season intercollegiate athletics conditioning which includes: strength training, cardiovascular conditioning, drill techniques and game play in preparation for competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 110CX3 2 Units****Intercollegiate Cross Country - Men Off-Season Athletics****Lab:** 108 contact hours

This course is designed for off-season sports conditioning in preparation for athletic participation. The course includes sport specific training with the purpose of developing areas of individual weaknesses. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 111AX3 3 Units****Intercollegiate Cross Country - Women****Lab:** 162 contact hours

This course is intended for members of the Women's Intercollegiate Cross-Country team. The course will provide instruction and training in the skills, knowledge, techniques, strategies, conditioning, and teamwork required for intercollegiate cross-country competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 111BX3 1 Unit****Intercollegiate Cross Country Women Pre-Season Athletics****Lab:** 54 contact hours

This course is designed for pre-season intercollegiate athletics conditioning which includes: strength training, cardiovascular conditioning, drill techniques and game play in preparation for competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 111CX3 2 Units****Intercollegiate Cross Country - Women Off-Season Athletics****Lab:** 108 contact hours

This course is designed for off-season sports conditioning in preparation for athletic participation. The course includes sport specific training with the purpose of developing areas of individual weaknesses. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 112AX3 3 Units****Intercollegiate Football - Offense****Lab:** 162 contact hours

This course is intended for members of the Intercollegiate Football team. The course will provide instruction and training in the skills, knowledge, techniques, strategies, conditioning and teamwork required for intercollegiate football competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 112BX3 1 Unit****Intercollegiate Football - Offense Pre-Season Athletics****Lab:** 54 contact hours

This course is designed for pre-season intercollegiate athletics conditioning which includes: strength training, cardiovascular conditioning, drill techniques and game play in preparation for competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 112CX3 2 Units****Intercollegiate Football - Offense Off-Season Athletics****Lab:** 108 contact hours

This course is designed for off-season sports conditioning in preparation for athletic participation. The course includes sport specific training with the purpose of developing areas of individual weaknesses. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 113AX3 3 Units****Intercollegiate Football - Defense****Lab:** 162 contact hours

This course is intended for members of the Intercollegiate Football team. The course will provide instruction and training in the skills, knowledge, techniques, strategies, conditioning and teamwork required for intercollegiate football competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 113BX3 1 Unit****Intercollegiate Football - Defense Pre-Season Athletics****Lab:** 54 contact hours

This course is designed for pre-season intercollegiate athletics conditioning which includes: strength training, cardiovascular conditioning, drill techniques and game play in preparation for competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU**

KINX 113CX3 2 Units**Intercollegiate Football - Defense Off-Season Athletics****Lab:** 108 contact hours

This course is designed for off-season sports conditioning in preparation for athletic participation. The course includes sport specific training with the purpose of developing areas of individual weaknesses. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 114AX3 3 Units****Intercollegiate Soccer - Men****Lab:** 162 contact hours

This course is intended for members of the Men's Intercollegiate Soccer team. The course will provide instruction and training in the skills, knowledge, techniques, strategies, conditioning and teamwork required for intercollegiate soccer competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 114BX3 1 Unit****Intercollegiate Soccer - Men Pre-Season Athletics****Lab:** 54 contact hours

This course is designed for pre-season intercollegiate athletics conditioning which includes: strength training, cardiovascular conditioning, drill techniques and game play in preparation for competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 114CX3 2 Units****Intercollegiate Soccer - Men Off-Season Athletics****Lab:** 108 contact hours

This course is designed for off-season sports conditioning in preparation for athletic participation. The course includes sport specific training with the purpose of developing areas of individual weaknesses. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 115AX3 3 Units****Intercollegiate Soccer - Women****Lab:** 162 contact hours

This course is intended for members of the Women's Intercollegiate Soccer team. The course will provide instruction and training in skills, knowledge, techniques, strategies, conditioning and teamwork required for intercollegiate soccer competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 115BX3 1 Unit****Intercollegiate Soccer - Women Pre-Season Athletics****Lab:** 54 contact hours

This course is designed for pre-season intercollegiate athletics conditioning which includes: strength training, cardiovascular conditioning, drill techniques and game play in preparation for competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 115CX3 2 Units****Intercollegiate Soccer - Women Off-Season Athletics****Lab:** 108 contact hours

This course is designed for off-season sports conditioning in preparation for athletic participation. The course includes sport specific training with the purpose of developing areas of individual weaknesses. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 116AX3 3 Units****Intercollegiate Volleyball - Women****Lab:** 162 contact hours

This course is intended for members of the Women's Intercollegiate Volleyball team. The course will provide instruction and training in the techniques, strategies, conditioning and teamwork required for intercollegiate volleyball competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 116BX3 1 Unit****Intercollegiate Volleyball - Women Pre-Season Athletics****Lab:** 54 contact hours

This course is designed for pre-season intercollegiate athletics conditioning which includes: strength training, cardiovascular conditioning, drill techniques and game play in preparation for competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 116CX3 2 Units****Intercollegiate Volleyball - Women Off-Season Athletics****Lab:** 108 contact hours

This course is designed for off-season sports conditioning in preparation for athletic participation. The course includes sport specific training with the purpose of developing areas of individual weaknesses. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 120AX3 1.5 Units****Intercollegiate Basketball - Men, Fall****Lab:** 81 contact hours

This course is intended for members of the Men's Intercollegiate Basketball team. The course will provide instruction and training in the skills, knowledge, techniques, strategies, conditioning and teamwork required for intercollegiate basketball competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 120BX3 1.5 Units****Intercollegiate Basketball - Men, Spring****Lab:** 81 contact hours

This course is intended for members of the Men's Intercollegiate Basketball team. The course is the second of the sequence that focuses on conference and postseason competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT FOR KINX 120Ax3.

Associate Degree Applicable**Transfers to both UC/CSU**

KINX 120CX3 1.5-2 Units**Intercollegiate Basketball - Men Pre-Season Athletics****Lab:** 108 contact hours

This course is designed for pre-season intercollegiate athletics conditioning which includes: strength training, cardiovascular conditioning, drill techniques and game play in preparation for competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 120DX4 0.5-1 Units****Intercollegiate Basketball - Men Off-Season Athletics****Lab:** 54 contact hours

This course is designed for off-season sports conditioning in preparation for athletic participation. The course includes sport specific training with the purpose of developing areas of individual weaknesses. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 121AX3 1.5 Units****Intercollegiate Basketball - Women, Fall****Lab:** 81 contact hours

This course is intended for members of the Women's Intercollegiate Basketball team. The course will provide instruction and training in the skills, knowledge, techniques, strategies, conditioning and teamwork required for intercollegiate basketball competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 121BX3 1.5 Units****Intercollegiate Basketball - Women, Spring****Lab:** 81 contact hours

This course is intended for members of the Women's Intercollegiate Basketball team. The course is the second of the sequence that focuses on conference and postseason competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT FOR KINX 121Ax3.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 121CX3 1.5-2 Units****Intercollegiate Basketball - Women Pre-Season Athletics****Lab:** 108 contact hours

This course is designed for pre-season athletics basketball training, which includes strength training, cardiovascular conditioning, drill techniques and game play in preparation for competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 121DX4 0.5-1 Units****Intercollegiate Basketball - Women Off-Season Athletics****Lab:** 54 contact hours

This course is designed for off-season basketball skill development in preparation for athletic participation. The course includes sport specific training with the purpose of developing areas of individual weaknesses. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 130AX3 3 Units****Intercollegiate Baseball****Lab:** 162 contact hours

This course is intended for members of the Intercollegiate Baseball Team. The course will provide instruction and training in the skills, knowledge, techniques, strategies, conditioning and teamwork required for intercollegiate baseball competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 130BX3 2 Units****Intercollegiate Baseball Pre-Season Athletics****Lab:** 108 contact hours

This course is designed for pre-season intercollegiate athletics conditioning which includes: strength training, cardiovascular conditioning, drill techniques and game play in preparation for competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 130CX3 1 Unit****Intercollegiate Baseball Off-Season Athletics****Lab:** 54 contact hours

This course is designed for off-season sports conditioning in preparation for athletic participation. The course includes sport specific training with the purpose of developing areas of individual weaknesses. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 131AX3 3 Units****Intercollegiate Softball****Lab:** 162 contact hours

This course is intended for members of the Women's Intercollegiate Softball team. The course will provide instruction and training in the skills, knowledge, techniques, strategies, conditioning and teamwork required for intercollegiate softball competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 131BX3 2 Units****Intercollegiate Softball Pre-Season Athletics****Lab:** 108 contact hours

This course is designed for pre-season intercollegiate athletics conditioning which includes: strength training, cardiovascular conditioning, drill techniques and game play in preparation for competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 131CX3 1 Unit****Intercollegiate Softball Off-Season Athletics****Lab:** 54 contact hours

This course is designed for off-season sports conditioning in preparation for athletic participation. The course includes sport specific training with the purpose of developing areas of individual weaknesses. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU**

KINX 132AX3 3 Units**Intercollegiate Track and Field - Men****Lab:** 162 contact hours

This course is intended for members of the Men's Intercollegiate Track and Field team. The course will provide instruction and training in the skills, knowledge, techniques, strategies, conditioning and teamwork required for intercollegiate track and field competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 132BX3 2 Units****Intercollegiate Track and Field - Men Pre-Season Athletics****Lab:** 108 contact hours

This course is designed for pre-season intercollegiate athletics conditioning which includes: strength training, cardiovascular conditioning, drill techniques and game play in preparation for competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 132CX3 1 Unit****Intercollegiate Track and Field - Men Off-Season Athletics****Lab:** 54 contact hours

This course is designed for off-season sports conditioning in preparation for athletic participation. The course includes sport specific training with the purpose of developing areas of individual weaknesses. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 133AX3 3 Units****Intercollegiate Track and Field - Women****Lab:** 162 contact hours

This course is intended for members of the Women's Intercollegiate Track and Field team. The course will provide instruction and training in the skills, knowledge, techniques, strategies, conditioning and teamwork required for intercollegiate competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 133BX3 2 Units****Intercollegiate Track and Field - Women Pre-Season Athletics****Lab:** 108 contact hours

This course is designed for pre-season intercollegiate athletics conditioning which includes: strength training, cardiovascular conditioning, drill techniques and game play in preparation for competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 133CX3 1 Unit****Intercollegiate Track and Field - Women Off-Season Athletics****Lab:** 54 contact hours

This course is designed for off-season sports conditioning in preparation for athletic participation. The course includes sport specific training with the purpose of developing areas of individual weaknesses. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU**

Kinesiology Associate of Arts Degree

The A.A. in Kinesiology is designed to be used as a terminal A.A. Degree for those who wish to obtain their degree and immediately enter the workforce as a teacher, coach or another Kinesiology profession. In addition, this degree can be used to prepare students who wish to pursue a Bachelor's Degree from a four-year institution. At the four-year institution, students may choose to specialize in one particular aspect of Kinesiology, such as Adapted Physical Education, Athletic Training, Coaching, Fitness, Exercise Science, Physical Therapy or Teaching. Students planning to transfer to a four-year institution and major in Kinesiology should consult with a counselor regarding the transfer process and lower division requirements because additional courses may be required at some institutions. Completion of the CSU General Education-Breadth (CSUGE) or Intersegmental General Education Transfer Curriculum (IGETC) for CSU is required in addition to the major requirements listed below:

Code	Title	Units
Required Courses		
HEALTH 101 or HEALTH 103	Health Education Introduction to Holistic Health	3
KIN 200	Introduction to Physical Education and Kinesiology	3
PSYCH 100 or PSYCH 100H	General Psychology General Psychology - Honors	3
Select one of the following:		8
BIOL 250 & BIOL 251	Human Anatomy and Physiology I and Human Anatomy and Physiology II	8
BIOL 260 & BIOL 261	Human Anatomy and Human Physiology	8
Select one Kinesiology Fitness course from the following:		1
KINF 101A	Beginning Boxing for Fitness	1
KINF 101B	Intermediate Boxing for Fitness	1
KINF 101C	Advanced Boxing for Fitness	1
KINF 105A	Beginning Low Impact Aerobics	1
KINF 105B	Intermediate Low Impact Aerobics	1
KINF 105C	Advanced Low Impact Aerobics	1
KINF 108A	Beginning Weight Training	1
KINF 108B	Intermediate Weight Training	1
KINF 108C	Advanced Weight Training	1
KINF 112A	Beginning Body Conditioning	1
KINF 112B	Intermediate Body Conditioning	1
KINF 112C	Advanced Body Conditioning	1
KINF 127A	Beginning Walking for Fitness	1
KINF 127B	Intermediate Walking for Fitness	1
KINF 127C	Advanced Walking for Fitness	1
KINF 132A	Beginning Distance Running	1
KINF 132B	Intermediate Distance Running	1
KINF 132C	Advanced Distance Running	1
KINF 138A	Beginning Physical Fitness	1
KINF 138B	Intermediate Physical Fitness	1
KINF 138C	Advanced Physical Fitness	1
KINF 142A	Beginning Conditioning for Sports	1
KINF 142B	Intermediate Conditioning for Sports	1
KINF 142C	Advanced Conditioning for Sports	1
KINF 150A	Beginning Table Tennis	1

KINF 150B	Intermediate Table Tennis	1	KINX 114AX3	Intercollegiate Soccer - Men	3
KINF 150C	Advanced Table Tennis	1	KINX 114BX3	Intercollegiate Soccer - Men Pre-Season Athletics	1
KINF 168A	Beginning Yoga	1	KINX 114CX3	Intercollegiate Soccer - Men Off-Season Athletics	2
KINF 168B	Intermediate Yoga	1	KINX 115AX3	Intercollegiate Soccer - Women	3
KINF 168C	Advanced Yoga	1	KINX 115BX3	Intercollegiate Soccer - Women Pre-Season Athletics	1
KINF 190A	Beginning Tai Chi	1	KINX 115CX3	Intercollegiate Soccer - Women Off-Season Athletics	2
KINF 190B	Intermediate Tai Chi	1	KINX 116AX3	Intercollegiate Volleyball - Women	3
KINF 190C	Advanced Tai Chi	1	KINX 116BX3	Intercollegiate Volleyball - Women Pre-Season Athletics	1
Selec one Kinesiology Sports or Athletic course from the following:					
KINS 100A	Beginning Baseball	1	KINX 116CX3	Intercollegiate Volleyball - Women Off-Season Athletics	2
KINS 100B	Intermediate Baseball	1	KINX 120AX3	Intercollegiate Basketball - Men, Fall	1.5
KINS 100C	Advanced Baseball	1	KINX 120BX3	Intercollegiate Basketball - Men, Spring	1.5
KINS 103A	Beginning Badminton	1	KINX 120CX3	Intercollegiate Basketball - Men Pre-Season Athletics	1.5-2
KINS 103B	Intermediate Badminton	1	KINX 121AX3	Intercollegiate Basketball - Women, Fall	1.5
KINS 103C	Advanced Badminton	1	KINX 121BX3	Intercollegiate Basketball - Women, Spring	1.5
KINS 104A	Beginning Basketball	1	KINX 121CX3	Intercollegiate Basketball - Women Pre-Season Athletics	1.5-2
KINS 104B	Intermediate Basketball	1	KINX 130AX3	Intercollegiate Baseball	3
KINS 104C	Advanced Basketball	1	KINX 130BX3	Intercollegiate Baseball Pre-Season Athletics	2
KINS 108A	Beginning Football	1	KINX 130CX3	Intercollegiate Baseball Off-Season Athletics	1
KINS 108B	Intermediate Football	1	KINX 131AX3	Intercollegiate Softball	3
KINS 108C	Advanced Football	1	KINX 131BX3	Intercollegiate Softball Pre-Season Athletics	2
KINS 112A	Beginning Indoor Soccer	1	KINX 131CX3	Intercollegiate Softball Off-Season Athletics	1
KINS 112B	Intermediate Indoor Soccer	1	KINX 132AX3	Intercollegiate Track and Field - Men	3
KINS 112C	Advanced Indoor Soccer	1	KINX 132BX3	Intercollegiate Track and Field - Men Pre-Season Athletics	2
KINS 116A	Beginning Soccer	1	KINX 132CX3	Intercollegiate Track and Field - Men Off-Season Athletics	1
KINS 116B	Intermediate Soccer	1	KINX 133AX3	Intercollegiate Track and Field - Women	3
KINS 116C	Advanced Soccer	1	KINX 133BX3	Intercollegiate Track and Field - Women Pre-Season Athletics	2
KINS 120A	Beginning Softball	1	KINX 133CX3	Intercollegiate Track and Field - Women Off-Season Athletics	1
KINS 120B	Intermediate Softball	1	Electives		
KINS 120C	Advanced Softball	1	Select two of the following:		
KINS 124A	Beginning Volleyball	1	CHEM 101	Introductory Chemistry	4
KINS 124B	Intermediate Volleyball	1	FN 162	Introduction to Food and Nutrition	3
KINS 124C	Advanced Volleyball	1	KIN 201	Mental Skills for Sport Performance	3
KINX 110AX3	Intercollegiate Cross Country - Men	3	KIN 202	History of Physical Education and Sport In the United States	3
KINX 110BX3	Intercollegiate Cross Country - Men Pre-Season Athletics	1	KIN 203	Theory of Coaching	3
KINX 110CX3	Intercollegiate Cross Country - Men Off-Season Athletics	2	KIN 231	First Aid and CPR	3
KINX 111AX3	Intercollegiate Cross Country - Women	3	KIN 232	Prevention and Care of Athletic Injuries	3
KINX 111BX3	Intercollegiate Cross Country Women Pre-Season Athletics	1	KIN 236	Stress Management and Wellness	3
KINX 111CX3	Intercollegiate Cross Country - Women Off-Season Athletics	2	Total Units 25-28		
KINX 112AX3	Intercollegiate Football - Offense	3	Note: CHEM 101 <i>is a required prerequisite for</i> BIOL 250, BIOL 251 <i>and</i> BIOL 261		
KINX 112BX3	Intercollegiate Football - Offense Pre-Season Athletics	1	To earn an SBVC Associate Degree students must complete one of the following general education patterns:		
KINX 112CX3	Intercollegiate Football - Offense Off-Season Athletics	2			
KINX 113AX3	Intercollegiate Football - Defense	3			
KINX 113BX3	Intercollegiate Football - Defense Pre-Season Athletics	1			
KINX 113CX3	Intercollegiate Football - Defense Off-Season Athletics	2			

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Construct a personal philosophy and approach to integrating principles of Kinesiology
- Demonstrate interdisciplinary knowledge of how the body functions and performs
- Utilize the degree to begin working on the field or transfer to an accredited university as a junior with a major in Kinesiology

Kinesiology Associate of Arts Transfer Degree

Kinesiology is the study of the principles of mechanics and anatomy in relation to human movement. The Kinesiology Associate in Arts Degree for Transfer (Kinesiology AA-T degree) provides students with an education in the core aspects of Kinesiology. The Kinesiology AA-T degree prepares students for transfer to CSU campuses that offer bachelor's degrees in Kinesiology.

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

To earn a Kinesiology AA-T degree, students must complete the following Associate Degree for Transfer requirements:

- completion of the following major requirements with grades of C or better;
- completion of 60 CSU transferable semester units with a grade point average of at least 2.0; and
- certified completion of the CSU General Education-Breadth (CSU-GE) or Intersegmental General Education Transfer Curriculum (IGETC) for CSU, which requires a minimum of 37-39 units.

It is highly recommended that students complete courses that satisfy the U.S. History, Constitution, and American Ideals requirement as part of CSUGE or IGETC before transferring to a CSU.

Students planning to transfer to a baccalaureate institution and major in Kinesiology should consult with a counselor regarding the transfer process and lower division requirements.

Code	Title	Units
Required Courses		
KIN 200	Introduction to Physical Education and Kinesiology	3
Select one of the following:		8
BIOL 250 & BIOL 251	Human Anatomy and Physiology I and Human Anatomy and Physiology II	8

BIOL 260 & BIOL 261	Human Anatomy and Human Physiology	8
---------------------	------------------------------------	---

Movement Based Courses

Select one course maximum from any three of the following areas: (3 units minimum)

Combative:		
KINF 190A	Beginning Tai Chi	1
KINF 190B	Intermediate Tai Chi	1
KINF 190C	Advanced Tai Chi	1
Dance:		
DANCE 101A	Beginning Modern Dance	2
DANCE 101B	Beginning/Intermediate Modern Dance	2
DANCE 102A	Intermediate Modern Dance	2
DANCE 102B	Intermediate/Advanced Modern Dance	2
DANCE 103A	Beginning Ballet	2
DANCE 103B	Beginning/Intermediate Ballet	2
DANCE 105A	Beginning Jazz Dance	2
DANCE 105B	Beginning/Intermediate Jazz Dance	2
DANCE 106A	Intermediate Jazz Dance	2
DANCE 106B	Intermediate/Advanced Jazz Dance	2
DANCE 107X2	Beginning Tap Dance	2
Fitness:		
KINF 101A	Beginning Boxing for Fitness	1
KINF 101B	Intermediate Boxing for Fitness	1
KINF 105A	Beginning Low Impact Aerobics	1
KINF 105B	Intermediate Low Impact Aerobics	1
KINF 105C	Advanced Low Impact Aerobics	1
KINF 108A	Beginning Weight Training	1
KINF 108B	Intermediate Weight Training	1
KINF 108C	Advanced Weight Training	1
KINF 112A	Beginning Body Conditioning	1
KINF 112B	Intermediate Body Conditioning	1
KINF 127A	Beginning Walking for Fitness	1
KINF 127B	Intermediate Walking for Fitness	1
KINF 132A	Beginning Distance Running	1
KINF 132B	Intermediate Distance Running	1
KINF 138A	Beginning Physical Fitness	1
KINF 138B	Intermediate Physical Fitness	1
KINF 138C	Advanced Physical Fitness	1
KINF 150A	Beginning Table Tennis	1
KINF 150B	Intermediate Table Tennis	1
KINF 150C	Advanced Table Tennis	1
KINF 168A	Beginning Yoga	1
KINF 168B	Intermediate Yoga	1
KINF 168C	Advanced Yoga	1
Individual Sports:		
KINS 103A	Beginning Badminton	1
KINS 103B	Intermediate Badminton	1
KINS 103C	Advanced Badminton	1
Team Sports:		
KINS 104A	Beginning Basketball	1
KINS 104B	Intermediate Basketball	1

KINS 104C	Advanced Basketball	1
KINS 116A	Beginning Soccer	1
KINS 116B	Intermediate Soccer	1
KINS 116C	Advanced Soccer	1
KINS 120A	Beginning Softball	1
KINS 120B	Intermediate Softball	1
KINS 120C	Advanced Softball	1
KINS 124A	Beginning Volleyball	1
KINS 124B	Intermediate Volleyball	1
KINS 124C	Advanced Volleyball	1

List A

Select two courses from the following: (6 units minimum)

MATH 108	Introduction to Probability and Statistics	4
or ECON 208	Business and Economic Statistics	
or PSYCH 105	Statistics for the Behavioral Sciences	
BIOL 100	General Biology	4
CHEM 150	General Chemistry I	5
KIN 231	First Aid and CPR	3
PHYSIC 151	General Physics for the Life Sciences I	4

Code	Title	Units
Major Total		21-24
Total Units That May Be Double Counted		10-13
General Education (CSU GE or IGETC) Units		37-39
Elective (CSU Transferable) Units		9-13
Total Units		60

See Section on Degree, Certificate, and Transfer Information for additional information on the Associate Degrees for Transfer.

To earn an SBVC Associate Degree for Transfer (AA-T or AS-T) students must complete one of the following general education patterns:

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate an understanding of the practical skills and knowledge base needed for employment, or other participation, in the field of Kinesiology and related fields.
- Develop an understanding of the potential employment opportunities within the field of Kinesiology and related fields.
- Qualify for transfer to a four-year institution within the CSU system

Learning Skills and Tutoring

Contact Information

Division: Academic Success and Learning Services (LIB - 123)

Division Phone Number: (909) 384-8649

Faculty Chair: Ginny Evans-Perry (gperry@sbccd.edu), M.L.I.S.

LST 010 1 Unit

Tutor Training

Lecture: 9 contact hours

Lab: 27 contact hours

Advisory: Completion of any college-level course to be tutored with a grade of B or better is required.

This course presents techniques and strategies for effective academic peer tutoring in a community college setting. Emphasis is on tutoring, study skill techniques and practical skills to use in a variety of tutoring situations. Graded on pass/no pass basis only. (Formerly ACAD 010)

LST 606 Noncredit

Supervised Tutoring/Academic Instructional Support

Lecture: 99 contact hours

Students enrolled in this noncredit class receive assistance in understanding course-specific content in various content area classes. Activities may include, but are not limited to, supervised individual or group tutorial/instructional services, computer assisted instruction and testing. Enrollment in this class is limited to students who have been recommended by an instructor or counselor on the basis of an identified learning need (formerly ACAD 606). Limitation on Enrollment: Students will be assigned to this course by a counselor or instructor or for supervised tutoring and learning assistance subject to regulations under Title 5, Section 58172 & 58164(c). Enrollment in at least one other course at SBVC

LST 610 Noncredit

Tutor Training

Lecture: 9 contact hours

Lab: 27 contact hours

Advisory: Completion of any college-level course to be tutored with a grade of B or better.

This noncredit course presents techniques and strategies for effective academic tutoring and facilitation in a community college setting. Emphasis is on tutoring and facilitating, study skill techniques and practical skills to use in a variety of tutoring situations (Formerly ACAD 610).

Liberal Arts

The Associate Degree in Liberal Arts is designed for students who wish a broad knowledge of liberal arts and sciences plus additional coursework in an "Area of Emphasis". An area of emphasis is ideal for students planning to transfer to the California State University (CSU) or University of California (UC). Students can satisfy required general education requirements, plus focus on transferable course work that relates to majors at CSU or UC. Students are advised to consult with a counselor for specific information regarding choice of major and transfer university. Students may obtain an Associate of Arts Degree in Liberal Arts by completing a minimum of 60 semester units as outlined below.

It is recommended that students complete either the IGETC or the CSU-GE for the general education pattern related to their educational goal. Students are also strongly advised to consult with a counselor relative to required courses for the selected option.

For either the IGETC or CSUGE option, 39-48 units of general education are required.

- Complete 18 units in one "Area of Emphasis" from those outlined below. For depth of study, a minimum of two courses in one discipline is required. (Note: Where appropriate, courses in the "Area of Emphasis" may also be counted for Associate Degree Option #1 or #2.)

- For **all options**, complete necessary SBVC graduation and proficiency requirements (Refer to page 36 in the SBVC catalog).
- All classes listed below transfer to CSU. Courses in BOLD are transferable to UC. Refer to www.assist.org (<http://www.assist.org/>) for transfer details.
- Courses that include a symbol X in the number such as MUS 141X2 indicate the course may be taken two times for credit. Students may apply each course with a symbol X only one time toward graduation requirements.
- For students pursuing multiple areas of emphasis, each course can be counted in one area only.
- Liberal Arts - Biological and Physical Sciences Associate of Arts Degree (p. 223)
- Liberal Arts - Humanities and Fine Arts Associate of Arts Degree (p. 224)
- Liberal Arts - Social and Behavioral Sciences Associate of Arts Degree (p. 226)

Liberal Arts - Biological and Physical Sciences Associate of Arts Degree

Biological and Physical Sciences

These courses emphasize the natural sciences, which examine the physical universe, its life forms, and natural phenomena. Courses in mathematics emphasize the development of mathematical and quantitative reasoning skills beyond the level of intermediate algebra. Students will be able to demonstrate an understanding of the methodologies of science as investigative tools. Students will also examine the influence that the acquisition of scientific knowledge has on the development of world civilization. Students must choose a minimum of 18 units.

Code	Title	Units
Anthropology		
ANTHRO 106	Biological Anthropology	3
	or ANTHRO 106L Biological Anthropology - Honors	
ANTHRO 106L	Biological Anthropology Laboratory	1
Astronomy		
ASTRON 120	Introduction to Astronomy	3
ASTRON 125	Astronomy Laboratory	1
Biology		
BIOL 100	General Biology	4
BIOL 102	Human Biology	3
BIOL 104	Human Ecology	3
BIOL 109	History of Life	4
	or BIOL 109H History of Life - Honors	
BIOL 141	Genetics	3
BIOL 155	Introductory Anatomy and Physiology	4
BIOL 205	Cell and Molecular Biology	4
BIOL 206	Organismal Biology	4
BIOL 207	Evolutionary Ecology	4
BIOL 250	Human Anatomy and Physiology I	4
BIOL 251	Human Anatomy and Physiology II	4
BIOL 260	Human Anatomy	4
BIOL 261	Human Physiology	4

BIOL 270	Microbiology	5
Chemistry		
CHEM 101	Introductory Chemistry	4
CHEM 104	Introduction to Organic Chemistry and Biochemistry	4
CHEM 105	Introduction to General, Organic And Biochemistry	5
CHEM 150	General Chemistry I	5
CHEM 151	General Chemistry II	5
CHEM 212	Organic Chemistry I	4
CHEM 213	Organic Chemistry II	4
Economics		
ECON 208	Business and Economic Statistics	4
Environmental Science		
ENVT 100	Introduction to Environmental Science	3
Geography		
GEOG 110	Physical Geography	3
GEOG 111	Physical Geography Laboratory	1
	or GEOG 111H Physical Geography Laboratory - Honors	
GEOG 114	Weather and Climate	4
Geology		
GEOL 101	Introduction to Physical Geology	3
GEOL 111	Introduction to Physical Geology Laboratory	1
GEOL 112	Historical Geology	4
GEOL 122	Environmental Geology	3
GEOL 250	Geology of California	3
GEOL 251	Geology of the National Parks and Monuments	3
Mathematics		
MATH 102	College Algebra	4
MATH 103	Plane Trigonometry	4
MATH 108	Introduction to Probability and Statistics	4
MATH 115	Ideas of Mathematics	3
MATH 141	Business Calculus	4
MATH 151	Precalculus	4
MATH 250	Single Variable Calculus I	4
MATH 251	Single Variable Calculus II	4
MATH 252	Multivariable Calculus	5
MATH 265	Linear Algebra	4
MATH 266	Ordinary Differential Equations	4
Oceanography		
OCEAN 101	Elements of Oceanography	3
OCEAN 111	Elements of Oceanography Laboratory	1
Physics		
PHYSIC 101	Introductory Physics	4
PHYSIC 151	General Physics for the Life Sciences I	4
PHYSIC 152	General Physics for the Life Sciences II	4
PHYSIC 202	Physics I	4
PHYSIC 203	Physics II	4
PHYSIC 204	Physics III	4
Psychology		
PSYCH 105	Statistics for the Behavioral Sciences	4
PSYCH 141	Introduction to Biological Psychology ¹	3
Total Units		18

¹ Completed Fall 2009 or later

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Utilize the degree to begin working in the field or transfer to an accredited four-year university as a junior in a Biological and/or Physical Science major

Liberal Arts - Humanities and Fine Arts Associate of Arts Degree

Humanities and Fine Arts

These courses emphasize the study of cultural, literary, humanistic activities, and artistic expressions of human beings. Students will evaluate and interpret the ways in which people throughout the ages in different cultures have responded to themselves and the world around them in artistic and cultural creation. Students must also learn to value aesthetic understanding and incorporate these concepts when constructing value judgments. Students must complete a minimum of 18 units.

Code	Title	Units
American Sign Language		
ASL 109	American Sign Language I	4
ASL 110	American Sign Language II	4
ASL 111	American Sign Language III	4
ASL 112	American Sign Language IV	4
Anthropology		
ANTHRO 108	North American Indians	3
ANTHRO 109	Visual Culture and Art	3
ANTHRO 110	Magic, Witchcraft, and Religion	3
Arabic		
ARAB 101	College Arabic I	5
ARAB 102	College Arabic II	5
Architecture		
ARCH 145	History of Architecture: Early Design Through Gothic	3
or ARCH 145H	History of Architecture: Early Design Through Gothic - Honors	
ARCH 146	History of Architecture: Renaissance Through Modern	3
or ARCH 146H	Architecture History: Renaissance to Modern - Honors	
Art		
ART 100	Art History: The Stone Age to the Middle Ages	3
ART 102	Art History: Renaissance to Present	3

or ART 102H	Art History: Renaissance to Present - Honors	
ART 103	Art Appreciation	3
ART 105	History of Modern Art	3
ART 107	Art History: Africa, Oceania and the Americas	3
ART 108	Art of Mexico and Mesoamerica	3
ART 120	Two-Dimensional Design	3
ART 121	Three-Dimensional Design	3
ART 124A	Beginning Drawing	3
ART 126A	Beginning Painting	3
ART 132A	Beginning Life Drawing	3
ART 145	Fundamentals of Graphic Design	3
ART 148	Beginning Computer Graphic Design	3
ART 161	Digital Photography	3
ART 175A	Beginning Sculpture	3
ART 180	Beginning 3D Computer Animation	3
ART 212A	Beginning Ceramics	3
ART 240A	Beginning Glassblowing	3
ART 270A	Beginning Design in Glass	3
Chinese		
CHIN 101	College Mandarin Chinese I	5
CHIN 102	College Mandarin Chinese II	5
Dance		
DANCE 200	Dance History and Appreciation	3
English		
ENGL 151	Freshman Composition and Literature	3
or ENGL 151H	Freshman Composition and Literature - Honors	
ENGL 153	Literature and Film	3
ENGL 155	Children's Literature	3
ENGL 161	Women Writers	3
ENGL 163	Chicano Literature	3
ENGL 165	African-American Literature	3
ENGL 175	The Literature and Religion of the Bible	3
ENGL 232	Creative Writing	3
ENGL 260	American Literature to Mid 19th Century	3
ENGL 261	American Literature From 1865 to Present	3
ENGL 270	English Literature: Middle Ages to 18th Century	3
or ENGL 270H	English Literature: Middle Ages to 18th Century - Honors	
ENGL 271	English Literature: 18th Century to Present	3
or ENGL 271H	English Literature: 18th Century to Present - Honors	
ENGL 275	Shakespeare	3
ENGL 280	World Literature: to 17th Century	3
ENGL 281	World Literature: 17th Century To Present	3
Film, Television, and Media		
FTVM 102	Introduction to Media Aesthetics and Cinematic Arts	3
FTVM 122	Acting and Directing for Television and Film	3
FTVM 131	Lighting and Cinematography	3
French		
FRENCH 101	College French I	5
FRENCH 102	College French II	5
History		

HIST 100	United States History to 1877	3	MUS 180	Instrumental Chamber Music	1
or HIST 100H	United States History to 1877 - Honors		MUS 201	Music Theory III: Basic Harmony	3
HIST 101	United States History: 1865 to Present	3	MUS 202	Music Theory IV: Harmony	3
or HIST 101H	United States History: 1865 to Present - Honors		MUS 201L	Musicianship III	1
HIST 107	The United States and the North American Indians	3	MUS 202L	Musicianship IV	1
HIST 137	Racial and Ethnic Groups in United States History	3	MUS 210	Conducting	3
HIST 138	African-American History to 1877	3	MUS 241X2	Applied Music II	0.5
HIST 139	African-American History 1877 to Present	3	Philosophy		
HIST 140	Chicano History	3	PHIL 101	Introduction to Philosophy	3
HIST 145	History of California	3	or PHIL 101H	Introduction to Philosophy - Honors	
HIST 150	Introduction to Latin American History	3	PHIL 105	Introduction to Ethics	3
HIST 170	World History to 1500	3	PHIL 112	Philosophy in Literature	3
HIST 171	World History Since 1500	3	PHIL 180	Death and Dying	3
HIST 176	Comparative History of Genocide and War Crimes	3	Religious Studies		
Music			RELIG 100	Introduction to Religious Studies	3
MUS 100	Music Appreciation	3	or RELIG 100H	Introduction to Religious Studies-Honors	
MUS 101	Music Theory I: Fundamentals	3	RELIG 101	Introduction to World Religions	3
MUS 101L	Musicianship I	1	RELIG 110	Magic, Witchcraft, and Religion	3
MUS 102	Music Theory II: Scales and Modes	3	RELIG 135	Religion in America	3
MUS 102L	Musicianship II	1	RELIG 150	Introduction to Mythology	3
MUS 104	History of Rock and Roll	3	RELIG 175	The Literature and Religion of the Bible	3
MUS 105	American Popular Music	3	RELIG 176	Jesus and His Interpreters	3
MUS 106	History of Jazz	3	RELIG 180	Death and Dying	3
MUS 107	Music of the World	3	Spanish		
MUS 108	History of Hip Hop Music	3	SPAN 101	College Spanish I	5
MUS 117A	Elementary Acoustic Guitar	1	or SPAN 101H	College Spanish I - Honors	
MUS 121	Music History and Literature - Middle Ages Through Baroque	3	SPAN 102	College Spanish II	5
or MUS 121H	Music History and Literature - Middle Ages Through Baroque - Honors		or SPAN 102H	College Spanish II - Honors	
MUS 122	Music History and Literature - Classic through Contemporary	3	SPAN 103	College Spanish III	4
or MUS 122H	Music History and Literature - Classic Through Contemporary - Honors		or SPAN 103H	College Spanish III - Honors	
MUS 123	Electronic Music I	3	SPAN 104	College Spanish IV	4
MUS 124	Electronic Music II	3	SPAN 157	Spanish for Heritage Speakers I	4
MUS 130	Elementary Voice	3	SPAN 158	Spanish for Heritage Speakers II	4
MUS 131	Intermediate Voice	3	Theatre Arts		
MUS 133	Elementary Piano	1	THART 100	Introduction to the Theatre	3
MUS 134	Intermediate Piano	1	THART 105	Script Analysis	3
MUS 135	Advanced Piano	1	THART 110	Voice and Diction for Actors	3
MUS 141X2	Applied Music I	0.5	THART 114X4	Rehearsal and Performance	4
MUS 150X4	Mixed Chorus	1	THART 120	Acting Fundamentals I	3
MUS 152X4	Chamber Singers	2	THART 121	Acting Fundamentals II	3
MUS 153X4	Chamber Chorale	2	THART 131	Sound for Stage and Screen	3
MUS 154X4	College Singers	2	THART 132	Lighting Design Fundamentals	3
MUS 156X4	Concert Choir	2	THART 135	Directing Fundamentals	3
MUS 158X4	Gospel Choir	1	THART 136	Introduction to Theatre Design	3
MUS 159X4	Theatrical Music Workshop	2	THART 139	Fundamentals of Costume Design	3
MUS 162X4	Wind Ensemble	1	THART 147	Theatre Movement	3
MUS 166X4	Concert Band	1	THART 160X4	Technical Theatre in Production	3
MUS 170X2	Jazz Improvisation and Theory I	1	THART 165	Stage Makeup	3
MUS 171X2	Jazz Improvisation and Theory II	1	THART 166	Improvisational Acting	3
Total Units					18

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Utilize the degree to begin working in the field or transfer to an accredited four-year university as a junior in a Humanities and/or Fine Arts major

Liberal Arts - Social and Behavioral Sciences Associate of Arts Degree

Social and Behavioral Sciences

These courses emphasize the perspective, concepts, theories, and methodologies of the disciplines typically found in the vast variety of disciplines that comprise study in the social and behavioral sciences. Topics and discussion to stimulate critical thinking about ways people have acted in response to their societies will allow students to evaluate how societies and social subgroups operate. Students must choose a minimum of 18 units.

Code	Title	Units
Anthropology		
ANTHRO 100	Introduction to Archaeology	3
ANTHRO 102	Cultural Anthropology	3
	or ANTHRO 102H Cultural Anthropology - Honors	
ANTHRO 103	Anthropology of Food	3
ANTHRO 106	Biological Anthropology	3
	or ANTHRO 106H Biological Anthropology - Honors	
ANTHRO 108	North American Indians	3
ANTHRO 109	Visual Culture and Art	3
ANTHRO 110	Magic, Witchcraft, and Religion	3
ANTHRO 125	Language and Culture	3
Child Development		
CD 105	Child Growth and Development	3
	or CD 105H Child Growth and Development - Honors	
CD 108	Early Childhood Development	3
CD 126	Child, Family, and the Community	3
Communication Studies		
COMMST 135	Mass Media and Society	3
COMMST 174	Intercultural Communication	3
COMMST 176	Gender Differences in Communication	3
Economics		
ECON 100	Introduction to Economics	3
ECON 200	Principles of Macroeconomics	3
	or ECON 200H Principles of Macroeconomics - Honors	

ECON 201	Principles of Microeconomics	3
	or ECON 201H Principles of Microeconomics - Honors	
Film, Television, and Media		
FTVM 101	Introduction to Electronic Media	3
Geography		
GEOG 102	Cultural Geography	3
GEOG 106	Geographic Perspectives on the Environment	3
GEOG 118	California Geography	3
GEOG 120	World Regional Geography	3
History		
HIST 100	United States History to 1877	3
	or HIST 100H United States History to 1877 - Honors	
HIST 101	United States History: 1865 to Present	3
	or HIST 101H United States History: 1865 to Present - Honors	
HIST 107	The United States and the North American Indians	3
HIST 137	Racial and Ethnic Groups in United States History	3
HIST 138	African-American History to 1877	3
HIST 139	African-American History 1877 to Present	3
HIST 140	Chicano History	3
HIST 145	History of California	3
HIST 150	Introduction to Latin American History	3
HIST 170	World History to 1500	3
HIST 171	World History Since 1500	3
HIST 176	Comparative History of Genocide and War Crimes	3
Philosophy		
PHIL 180	Death and Dying	3
Political Science		
POLIT 100	American Politics	3
POLIT 110	Introduction to Political Theory	3
	or POLIT 110H Introduction to Political Theory - Honors	
POLIT 140	Introduction to Comparative Politics	3
POLIT 141	Introduction to World Politics	3
	or POLIT 141H Introduction to World Politics - Honors	
Psychology		
PSYCH 100	General Psychology	3
	or PSYCH 100H General Psychology - Honors	
PSYCH 102	Personal and Social Adjustment	3
PSYCH 110	Abnormal Psychology	3
PSYCH 111	Developmental Psychology: Lifespan	3
PSYCH 112	Developmental Psychology: Child and Adolescent Psychology	3
PSYCH 118	Human Sexual Behavior	3
PSYCH 201	Research Methods for the Behavioral Sciences	4
Religious Studies		
RELIG 110	Magic, Witchcraft, and Religion	3
RELIG 135	Religion in America	3
RELIG 180	Death and Dying	3
Sociology		
SOC 100	Introduction to Sociology	3
	or SOC 100H Introduction to Sociology - Honors	
SOC 110	Social Problems	3
	or SOC 110H Social Problems - Honors	

SOC 120	Health and Social Justice	3
SOC 130	Family Sociology	3
SOC 135	Introduction to Crime	3
SOC 141	Race and Ethnic Relations	3
SOC 145	Sociology of Gender	3
SOC 150	Aging and the Life Course	3
Total Units		18

This degree is also offered as a Zero Textbook Cost Degree (Z Degree) (p. 44).

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Utilize the degree to begin working in the field or transfer to an accredited four-year university as a junior in a Social and Behavioral Science major

Library Technology

Library skills are fundamental to student success, especially in today's information-laden society. The Library Technology Department offers one course (LIB 110) which is designed to teach students how to access both print and on-line information sources more efficiently and effectively. The remaining Library Technology courses are part of an associate of arts degree or a certificate program designed for students who are interested in working as paraprofessionals in the library field. Taken alone, each course provides entry-level exposure to a particular library department or function. Presently employed library workers can also take courses to increase their level and variety of training in the library field. Courses for the program are rotated over a two-semester sequence.

Contact Information

Division: Academic Success and Learning Services (LIB - 123)

Division Phone Number: (909) 384-8649

Faculty Chair: Ginny Evans-Perry (gperry@sbccd.edu), M.L.I.S.

-
- Library Technology Associate of Arts Degree (p. 228)
 - Library Technology Certificate of Achievement (p. 228)

LIB 062 1 Unit

Care and Repair of Library Materials

Lecture: 9 contact hours

Lab: 27 contact hours

This course provides the basic, hands-on techniques used in the binding, repair, and care of printed library materials.

Associate Degree Applicable

LIB 063 3 Units

Survey of Literature for Library Technicians

Lecture: 54 contact hours

Prerequisite/Corequisite: LIB 064

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an introductory study of Readers' Advisory work as performed in public, academic, and school libraries. It offers a practical study of popular literature and literary genres, interpersonal skills, and interview techniques needed to become successful in recommending specific titles and/or authors to library patrons based on parameters such as reading interests, age groups, and reading levels.

Associate Degree Applicable

LIB 064 3 Units

Introduction to Library Services

Lecture: 54 contact hours

This course is an introduction to the philosophy of library services; the history and types of libraries; the relationship of a library to the community it serves; the organizational structure of libraries; the role of the Library Technician; and the development of a positive workplace attitude.

Associate Degree Applicable

LIB 065 3 Units

Public Services

Lecture: 54 contact hours

Prerequisite/Corequisite: LIB 064

Advisory: READ 015

This course is an introduction to the public services provided by the modern library. Topics include circulation systems and practices; library classification and catalogs; customer service; reference resources and services; government information resources; information literacy instruction; archives and special collections; library programming; censorship; and security issues in libraries.

Associate Degree Applicable

LIB 066 3 Units

Acquisitions

Lecture: 54 contact hours

Advisory: READ 015

This course is an introduction to acquisitions practices in the modern library. Topics include needs assessment; collection management; selection of print and online resources; acquisitions processes; weeding/deselection of materials; ethics; preservation; legal and safety issues in libraries; and intellectual freedom.

Associate Degree Applicable

LIB 067 3 Units

Cataloging and Classification

Lecture: 54 contact hours

Prerequisite/Corequisite: LIB 064

This course is an introduction to descriptive and subject cataloging, classification of materials using the Dewey Decimal and Library of Congress systems, preparation of MARC computer database records, and use of electronic bibliographic utilities.

Associate Degree Applicable

LIB 070 3 Units**Library Technology and Computer Services****Lecture:** 54 contact hours**Advisory:** READ 015 and LIB 064

This class is an introduction to the application and integration of automation systems and computer in libraries. Students will be exposed to a variety of computer applications, including online public access catalogs and automated circulation systems. This course provides an overview of a wide variety of computer services and issues within a library setting ranging from public access, social media, cyber security and emerging technologies.

Associate Degree Applicable**LIB 071 2 Units****Youth Services and Programs****Lecture:** 36 contact hours**Prerequisite:** READ 015

This course explores age appropriate library services and programing for youth in public and school libraries.

Associate Degree Applicable**LIB 073 2 Units****Library Digital Archives and Resources****Lecture:** 36 contact hours**Advisory:** READ 015 and LIB 064

This course introduces archival theory and methods with a focus on digital media storage and preservation, including born-digital and digitized materials.

Associate Degree Applicable**LIB 098 1-4 Units****Library Work Experience****WRKEX:** 300 contact hours

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable**LIB 110 3 Units****Information Literacy and Research****Lecture:** 54 contact hours**Advisory:** READ 015

This is an introductory course covering the skills needed to effectively access library and online information sources, to critically evaluate the information retrieved, and to practice ethical behavior in regard to information technology.

Associate Degree Applicable**Transfers to both UC/CSU**

Library Technology Associate of Arts Degree

The Library Technology Degree trains students for careers in libraries or information management using print media as well as technology. The program is designed to prepare individuals for employment as a paraprofessional in a public, school, academic, or special library or an information center. To graduate with a Library Technology Associate of Arts degree, students must complete 22-23 units from the following list of courses plus the general breadth requirements for the Associate Degree (minimum 60 units).

Code	Title	Units
Required Courses		
LIB 063	Survey of Literature for Library Technicians ¹	3
LIB 064	Introduction to Library Services	3
LIB 065	Public Services	3
LIB 066	Acquisitions	3
LIB 067	Cataloging and Classification	3
LIB 070	Library Technology and Computer Services	3
LIB 110	Information Literacy and Research	3
Select one of the following:		1-2
LIB 062	Care and Repair of Library Materials	1
LIB 071	Youth Services and Programs	2
LIB 073	Library Digital Archives and Resources	2
Total Units		22-23

¹ or any other college-level literature course

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Utilize the correct technology and media for library services
- Classify library materials in a variety of library environments such as schools, specialized, public and academic
- Demonstrate the fundamentals of working with the public, and materials management
- Describe the purposes, processes, and goals of the different departments within a library, including technical, public, and reference services

Library Technology Certificate of Achievement

The Library Technology certificate trains students for careers in libraries or information management using print media as well as technology. The program is designed to prepare individuals for entry level employment in a public, school, academic, or special library or an information center.

Code	Title	Units
Required Courses		
CIT 010	Beginning Keyboarding and Word Processing ¹	0-3
ENGL 055	Children's Literature ²	3
or ENGL 155	Children's Literature	
or LIB 063	Survey of Literature for Library Technicians	
LIB 064	Introduction to Library Services	3
LIB 065	Public Services	3
LIB 066	Acquisitions	3

LIB 067	Cataloging and Classification	3
LIB 070	Library Technology and Computer Services	3
LIB 098	Library Work Experience ³	0-4
LIB 110	Information Literacy and Research	3
Select one of the following:		1-2
LIB 062	Care and Repair of Library Materials	1
LIB 071	Youth Services and Programs	2
LIB 073	Library Digital Archives and Resources	2
Total Units		22-30

- ¹ or demonstrated ability to type 30 wpm for five minutes
- ² or any other college-level literature course
- ³ This requirement may be waived if the student has been employed in a library for at least one year at full-time (or equivalent)

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Utilize the correct technology and media for library services
- Classify library materials in a variety of library environments such as schools, specialized, public and academic
- Demonstrate the fundamentals of working with the public, and materials management
- Describe the purposes, processes, and goals of the different departments within a library, including technical, public, and reference services

Machinist Technology

The Machine Technology program offers a broad training that prepares individuals for entry-level employment in the machining industry. Through a combination of classroom study and assigned lab activities, students develop trade skills and become familiar with production methods and standards common to the industry. Within the lab setting, emphasis is on the practical application of skills. Students will learn to operate a variety of conventional machine tools and computer numerical control (CNC) machines, interpret industrial drawings/blueprints, and use precision measuring and inspection instruments. Good math, problem-solving, and computer skills are important.

Contact Information

Division: Applied Technology, Transportation, and Culinary Arts (T - 108)

Division Phone Number: (909) 384-4451

Faculty Chairs: Bryce Cacho (bcacho@sbccd.edu), M.A. and Joshua Milligan (jmilligan@sbccd.edu), A.S.

- Basic Machine Operator Certificate of Career Preparation (p. 233)
- Basic Operation Computerized Numerical Control (CNC) Certificate of Achievement (p. 233)
- Computer Numerical Control - CAD & CAM Certificate of Achievement (p. 234)
- Industrial Maintenance Certificate of Achievement (p. 234)
- Machine Technology Certificate of Achievement (p. 235)
- Machinist Standard Certificate of Achievement (p. 235)
- Tool & Die Certificate of Achievement (p. 236)

MACH 010 1 Unit

Fundamentals of Industrial Maintenance

Lecture: 18 contact hours

This course covers orientation to the trade and tools of the trade for industrial maintenance mechanics.

Associate Degree Applicable

MACH 014 1 Unit

Craft Related Quantitative Skills

Lecture: 18 contact hours

This course is designed to give students the fundamental quantitative skills commonly used by industrial maintenance mechanics.

Associate Degree Applicable

MACH 016 1 Unit

Construction Print Reading

Lecture: 18 contact hours

This course is designed to give students the fundamental skills to read commonly used prints in construction by industrial maintenance mechanics.

Associate Degree Applicable

MACH 018 1.5 Units

Gaskets, Pumps, and Valves

Lecture: 27 contact hours

This course is designed to give students the fundamental skills in gaskets, packing, pumps, drivers, valves and lubrication used for industrial maintenance mechanics.

Associate Degree Applicable

MACH 020 1.5 Units

Material Handling, and Support Equipment

Lecture: 27 contact hours

This course is designed to give students the fundamental skills in material handling, hand rigging, mobile and support equipment used for industrial maintenance mechanics.

Associate Degree Applicable

MACH 021 4 Units

Machine Shop I

Lecture: 18 contact hours

Lab: 162 contact hours

Advisory: MACH 090 and MACH 120

This course includes basic machine shop practices, with an emphasis on Occupational Safety and Health Act (OSHA), basic shop mathematics, measurements, the correct use of basic machine tools, mills, lathes, saws, drill presses, and provides an introduction to National Institute for Metalworking Skills (NIMS) Standards Level I, Bench and Layout.

Associate Degree Applicable

- Computer Numerical Control - CAD & CAM Associate of Science Degree (p. 233)
- Machinist Standard Associate of Science Degree (p. 235)
- Tool & Die Associate of Science Degree (p. 236)

MACH 022 4 Units**Machine Shop II****Lecture:** 18 contact hours**Lab:** 162 contact hours**Advisory:** MACH 021

This course includes machine shop practices for students with a machining background. Emphasis is placed on mathematical speeds and feed formulas, boring processes on mills and lathes, tool grinding, National Institute for Metalworking Skills (NIMS) Standards. At the completion of this course, students will have completed certain NIMS certification competencies.

Associate Degree Applicable**MACH 024 1 Unit****Introduction to Piping****Lecture:** 18 contact hours

This course is designed to give students the fundamental skills necessary to work with various types of piping on the job site. The material covered in this course is copper and plastic piping and an introduction to ferrous metal piping practices.

Associate Degree Applicable**MACH 025 3 Units****General Machine Shop****Lecture:** 18 contact hours**Lab:** 108 contact hours

This introductory course instructs students in the basic set up and operating of the lathe, mill, saw, drill press, and grinder. Students will also learn safety, blueprint reading, measurement, shop math, tool grinding, and speed and feed calculations needed in machine shops.

Associate Degree Applicable**MACH 026 1 Unit****Valve Maintenance and Testing****Lecture:** 18 contact hours

This course is designed to give students the fundamental maintenance knowledge necessary to work with various types of valves and perform basic hydrostatic and pneumatic testing on the jobsite.

Associate Degree Applicable**MACH 028 1 Unit****Introduction to Bearings****Lecture:** 18 contact hours

This course is designed to give students the fundamental knowledge necessary to work with various types of bearings on the jobsite.

Associate Degree Applicable**MACH 029 1 Unit****Basic Layout for Industrial Maintenance****Lab:** 54 contact hours

This course is designed to give students the fundamental skills necessary to do basic on-the-job layout for machinery repair and installation.

Associate Degree Applicable**MACH 030 2 Units****Introduction to Steam Systems****Lecture:** 36 contact hours

This course is designed to give students the fundamental knowledge necessary to work with various types of steam systems commonly found on the jobsite.

Associate Degree Applicable**MACH 032 1 Unit****Distillation Towers and Vessels****Lecture:** 18 contact hours

This course is designed to give students the fundamental knowledge necessary to work with various types of distillation towers and vessels commonly found on the jobsite.

Associate Degree Applicable**MACH 034 1 Unit****Heaters and Cooling Towers****Lecture:** 18 contact hours

This course is designed to give students the fundamental knowledge necessary to work with various types of heaters, furnaces, heat exchangers, cooling towers and fin fans commonly found on the jobsite.

Associate Degree Applicable**MACH 040 3 Units****Intermediate Three-Dimensional Computer Modeling****Lecture:** 18 contact hours**Lab:** 108 contact hours**Prerequisite:** MACH 075

This course covers intermediate concepts and development of three-dimensional solid modeling and solid assembly modeling using a Computer Aided Drafting (CAD) solid modeling program.

Associate Degree Applicable**MACH 041 4 Units****Advanced Mechanical Design Applications****Lecture:** 36 contact hours**Lab:** 108 contact hours**Prerequisite:** ARCH 130 and MACH 075 and MACH 040

This course covers advanced modeling of machine parts in the various stages of manufacturing with required back-up items such as jigs, fixtures, weldments, tooling, molds and dies.

Associate Degree Applicable**MACH 042 3 Units****Mechanical Design and Drafting I****Lecture:** 18 contact hours**Lab:** 108 contact hours**Prerequisite:** ARCH 130 and MACH 075

This course covers the production of engineering drawings with primary orthographic views, section views, detail views and auxiliary views. Students will also become familiar with detailing of drawing views including dimensions, notes/labels and drawing formats.

Associate Degree Applicable**MACH 043 4 Units****Mechanical Design and Drafting II****Lecture:** 36 contact hours**Lab:** 108 contact hours**Prerequisite:** ARCH 130 and MACH 075 and MACH 042

This course covers advanced drawing techniques with a focus on mechanical applications. Advanced documentation/design practices including ASME Y14.5 tolerancing, symbol libraries, bills of material, and interface automation will be covered.

Associate Degree Applicable**MACH 050 1 Unit****Electrical Safety and Hand Bending****Lecture:** 18 contact hours

This course covers safety rules as applied to handling and working with electrical systems and circuits including methods and procedures used in cutting, bending, and reaming conduit.

Associate Degree Applicable

MACH 052 1 Unit**Fasteners and Electrical Theory****Lecture:** 18 contact hours

This course covers basic electrical theory and applications and installation procedures for various types of fasteners and anchors used in electrical systems and circuits.

Associate Degree Applicable**MACH 054 2 Units****National Electrical Code (NEC) and Electrical Test Equipment****Lecture:** 36 contact hours

The course covers the application of electrical test equipment, the National Electrical Code (NEC), and raceway-fittings and accessories.

Associate Degree Applicable**MACH 058 1 Unit****Electrical Print Reading and Wiring****Lecture:** 18 contact hours

This course covers the application of electrical print reading and the wiring of switches and receptacles used in residential, and commercial electricity.

Associate Degree Applicable**MACH 060 1 Unit****Electrical Performance Testing****Lab:** 54 contact hours**Prerequisite:** MACH 050 and MACH 052 and MACH 054 and MACH 058

In this course students will have the opportunity to demonstrate the skills learned in the classroom under the guidance of journeyman and/or qualified personnel on the jobsite.

Associate Degree Applicable**MACH 061 4 Units****Jig and Fixture Machining****Lecture:** 54 contact hours**Lab:** 54 contact hours**Advisory:** MACH 021 and MACH 090

This course includes the study of jig and fixture, design, and machining. Techniques to support conventional and computer numerical control (CNC) machining processes to improve manufacturing efficiency and productivity are explored.

Associate Degree Applicable**MACH 062 3 Units****Computer Numerical Control Wire Electric Discharge Machine Set Up****Lecture:** 18 contact hours**Lab:** 108 contact hours**Prerequisite:** MACH 160

This course provides the student with instruction in the concepts and practices associated with the set up, operation, and programming of Computer Numerical Control (CNC) Wire Electrical Discharge Machines (EDM).

Associate Degree Applicable**MACH 070 3 Units****Computer Numerical Control Programming (CNC) I****Lecture:** 18 contact hours**Lab:** 108 contact hours**Advisory:** TECALC 087 and MACH 090

This course focuses on basic numerical control programming and emphasizes math used for toolpath geometry, and the use of a computer CNC Software simulator for verifying toolpath geometry calculations.

Associate Degree Applicable**MACH 071 3 Units****Computer Numerical Control Programming II****Lecture:** 18 contact hours**Lab:** 108 contact hours**Prerequisite:** MACH 070

This is an intermediate Computer Numerical Control (CNC) programming course which focuses on manual coding of various machine tool control languages. It includes programming concepts, and hands on manual programming to manufacture parts using Fanuc, Haas, and Mazak CNC machine tools.

Associate Degree Applicable**MACH 072 3 Units****Computer Aided Design and Manufacturing Programming I****Lecture:** 18 contact hours**Lab:** 108 contact hours

This course includes the study and use of Mastercam software with emphasis on drawing 2-D models, construction and part design basics related to 2-D models, and part programming for Computer Numerical Control (CNC) lathes and mills.

Associate Degree Applicable**MACH 073 3 Units****Computer Aided Design and Manufacturing Programming II****Lecture:** 18 contact hours**Lab:** 108 contact hours**Prerequisite:** MACH 072

This course includes the study and use of Mastercam software, 3-D mill, solids, and lathe programming. Speeds, feeds, and tool path programming for generating G- code of complex surfaces are explored.

Associate Degree Applicable**MACH 074 3 Units****Computer Numerical Control (CNC) Machining Setup and Operation****Lecture:** 18 contact hours**Lab:** 108 contact hours

This is an introductory course designed to teach the fundamental skills related to the setup and operation of Computer Numerically Controlled (CNC) machine tools. Safety, tool selection, speeds and feeds, machine and controller functions, and calculation and input of offsets, are also included.

Associate Degree Applicable**MACH 075 3 Units****Introduction to Three-Dimensional Computer-Aided Design (3D-CAD)****Lecture:** 18 contact hours**Lab:** 108 contact hours

This course is an introduction to Computer Aided Design/SolidWorks (CAD) with emphasis on industry standards in preparation for certification in SolidWorks Associates (CSWA) Exam. Students will be introduced to 2-D drafting practices and techniques as well as 3-D solid modeling, using SolidWorks and its application in design and rapid prototyping.

Associate Degree Applicable**MACH 076 3 Units****Computer Numerical Control (CNC) Parts Programming and Machining****Lecture:** 18 contact hours**Lab:** 108 contact hours**Prerequisite:** MACH 074

This course covers manual programming techniques, calculations, and program development for Computer Numerical Control (CNC) mills, machining centers, and lathes. Up to three axis of control will be discussed. Students will test part programs on Computer Numerical Control (CNC) machines during laboratory hours.

Associate Degree Applicable

MACH 077 3 Units**Advanced Computer Numerical Control (CNC) Machining****Lecture:** 18 contact hours**Lab:** 108 contact hours**Prerequisite:** MACH 076

This course provides students with advanced instruction and practice in the concepts and practices associated with programming and set up of Computer Numerical Control (CNC) mills and lathes. Students will build upon prior experience with CNC machines to complete finished parts on Computer Numerical Control (CNC) mills and lathes having various control types. Students will run programs and practice set-up processes during lab time.

Associate Degree Applicable**MACH 078 3 Units****Multiple Axis Computer Numerical Control (CNC) Set-Up and Operation Machining****Lecture:** 18 contact hours**Lab:** 108 contact hours**Prerequisite:** MACH 077

This course provides students with instruction associated with the programming and set up of Computer Numerical Control (CNC) mills with four and five axis of control. Students will build upon prior experience with Computer Numerical Control (CNC) machines to complete finished parts on Computer Numerical Control (CNC) mills with four and five axis of control. Students will run programs and practice set-up processes during the laboratory.

Associate Degree Applicable**MACH 090 3 Units****Mechanical Print Reading****Lecture:** 36 contact hours**Lab:** 54 contact hours

This course is a study in print interpretation with an emphasis on terminology. It also includes sketching, precision metrology, and concepts related to mechanical drawing standards, language of the American Society of Mechanical Engineers (ASME) Y14 series 2014, and how these apply to the mechanical print inspection processes.

Associate Degree Applicable**MACH 091 2 Units****Geometric Dimensioning & Tolerancing****Lecture:** 36 contact hours**Prerequisite:** MACH 090

This course covers Geometric Dimensioning and Tolerancing interpretation and use of ANSI Y14.5M standards applied to prints regarding industry and government standards.

Associate Degree Applicable**MACH 098 1-4 Units****Machinist Technology Work Experience****WRKEX:** 300 contact hours

This course involves supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. Students work 5-20 hours per week to earn units using the following formula: For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. Students MUST be working for pay or volunteer before registering for a Work Experience class. NOTE: Only one section of Work Experience may be taken during a semester.

MACH 120 2 Units**Machine Shop Theory****Lecture:** 36 contact hours

This is a lecture course with instruction in the fundamentals of industrial processes and machines that are required of the machinist. Shop safety practices, job planning, feeds and speeds, layout tools, hand tools, bench work, and metal-cutting machines are covered.

Associate Degree Applicable**Transfers to CSU only****MACH 123 4 Units****Machine Shop III****Lecture:** 18 contact hours**Lab:** 162 contact hours**Advisory:** MACH 022

This course includes intermediate machine shop practices. Emphasis is placed on set up of machine tool accessories: steady rests, vises, rotary tables, indexers, and precision grinding accessories: precision vice, punch former, surface grinder radius dresser. At the completion of the course, students may qualify for National Institute for Metalworking Skills (NIMS).

Associate Degree Applicable**Transfers to CSU only****MACH 124 4 Units****Machine Shop IV****Lecture:** 18 contact hours**Lab:** 162 contact hours**Advisory:** MACH 123

This course includes advanced machine shop practices. Emphasis is placed on high precision with low tolerance manufacturing, advanced math applications, special tool grinding, part indexing, and carbide applications. At the completion of the course, students should have completed the National Institute for Metalworking Skills (NIMS) certification competency tests in Manual Milling and Grinding Skills I.

Associate Degree Applicable**Transfers to CSU only****MACH 129 3 Units****Manufacturing Processes****Lecture:** 54 contact hours

The course is designed to provide a basic understanding of the manufacturing process: need, scope, advantages, limitation, economics, application, materials, and manufacturing. An overview of different methods for industrial materials manufacturing processes including casting, imaging and coating, molding, forming, machining, joining, and additive manufacturing will be covered.

Associate Degree Applicable**Transfers to CSU only****MACH 160 4 Units****Tool and Die****Lecture:** 18 contact hours**Lab:** 162 contact hours**Advisory:** MACH 075 and MACH 120 and MACH 123

This course includes the study and design of tool and die making processes; die cutting and forming; power presses dies for stamping and forming metal parts; and standards as outlined in the National Institute for Metalworking Skills (NIMS) standards.

Associate Degree Applicable**Transfers to CSU only**

MACH 600 Noncredit**Conventional Machine Lab****Lecture:** 54 contact hours

This noncredit laboratory course provides practice on machine shop equipment. Students will work on individual projects which they will retain for their use. Training received in this course develops an ability to visualize and perform various functions necessary in the machine trade.

MACH 601 Noncredit**Computer Numerical Control (CNC) Lab****Lecture:** 9 contact hours

This noncredit laboratory course provides practice on CNC machine shop equipment. Students will work on individual projects which they will retain for their use. Training received in this course develops an ability to visualize and perform various functions necessary in the machine trade.

Basic Machine Operator Certificate of Career Preparation

This certificate is designed to prepare students with basic entry-level machine operator skills, safety knowledge, theory, and quality control skills in manufacturing processes. Students obtaining this certificate will qualify for the first level certification in National Industry Metal Skills (NIMS).

Code	Title	Units
Required Courses		
MACH 021	Machine Shop I	4
MACH 075	Introduction to Three-Dimensional Computer-Aided Design (3D-CAD)	3
MACH 090	Mechanical Print Reading	3
MACH 120	Machine Shop Theory	2
Total Units		12

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

Program Learning Outcomes

At the completion of this program, students will be able to:

- Prepare a part for NIMS bench and layout certification
- Properly use hand grind cutting tools in machine tool cutting operations
- Generate a 3-D assembly from a detailed illustration
- Apply the formula for calculating feeds and speeds
- Calibrate a micrometer

Basic Operation Computerized Numerical Control (CNC) Certificate of Achievement

This certificate is designed to prepare students for entry-level employment in Computer Aided Manufacturing (CAM) programming, set up, and operation of Computer numerical control (CNC) machine tools.

Code	Title	Units
Required Courses		
MACH 090	Mechanical Print Reading	3
MACH 025	General Machine Shop	3

MACH 072	Computer Aided Design and Manufacturing Programming I	3
MACH 073	Computer Aided Design and Manufacturing Programming II	3
MACH 070	Computer Numerical Control Programming (CNC) I	3
MACH 074	Computer Numerical Control (CNC) Machining Setup and Operation	3
Total Units		18

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Accurately hold tolerances to a given print within a 1/64th for fractions and within .001' for NIMS decimals
- Program a part print utilizing the Cartesian coordinate systems
- Download files from computer disks to machine control
- Generate a part model in SolidWorks from a detailed dimensioned illustration or a mechanical drawing
- Demonstrate basic procedures for the set-up and operation of lathes, milling machines, drill presses, saws, and grinders

Computer Numerical Control - CAD & CAM Associate of Science Degree

To graduate with a specialization in Computer Numerical Control: CAD/CAM, students must complete the following required courses for the certificate plus the general breadth requirements for the Associate of Science Degree (minimum total = 60 units).

Code	Title	Units
Required Courses		
MACH 021	Machine Shop I	4
MACH 022	Machine Shop II	4
MACH 090	Mechanical Print Reading	3
MACH 120	Machine Shop Theory	2
MACH 123	Machine Shop III	4
MACH 124	Machine Shop IV	4
Required Specialized Courses		
MACH 070	Computer Numerical Control Programming (CNC) I	3
MACH 071	Computer Numerical Control Programming II	3
MACH 072	Computer Aided Design and Manufacturing Programming I	3
MACH 073	Computer Aided Design and Manufacturing Programming II	3
MACH 074	Computer Numerical Control (CNC) Machining Setup and Operation	3
MACH 129	Manufacturing Processes	3
Total Units		39

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Accurately hold tolerances to a given print within a 1/64th for fractions and within .001' for NIMS decimals
- Program a part print utilizing the Cartesian coordinate systems
- Download files from computer disks to machine control
- Generate a part model in SolidWorks from a detailed dimensioned illustration or a mechanical drawing
- Demonstrate the use of a gage 2000 Browne & Sharpe coordinate measuring machine

Computer Numerical Control - CAD & CAM Certificate of Achievement

This certificate is designed to prepare students for entry-level employment as production machinists working with complex Computer Numerical Control (CNC) cutting machines.

Code	Title	Units
Required Courses		
MACH 021	Machine Shop I	4
MACH 022	Machine Shop II	4
MACH 090	Mechanical Print Reading	3
MACH 120	Machine Shop Theory	2
MACH 123	Machine Shop III	4
MACH 124	Machine Shop IV	4
TECALC 087	Technical Calculations	4
Required Specialized Courses		
MACH 070	Computer Numerical Control Programming (CNC) I	3
MACH 071	Computer Numerical Control Programming II	3
MACH 072	Computer Aided Design and Manufacturing Programming I	3
MACH 073	Computer Aided Design and Manufacturing Programming II	3
MACH 074	Computer Numerical Control (CNC) Machining Setup and Operation	3
MACH 129	Manufacturing Processes	3
Total Units		43

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Accurately hold tolerances to a given print within a 1/64th for fractions and within .001' for NIMS decimals
- Program a part print utilizing the Cartesian coordinate systems
- Download files from computer disks to machine control
- Generate a part model in SolidWorks from a detailed dimensioned illustration or a mechanical drawing
- Demonstrate the use of a gage 2000 Browne & Sharpe coordinate measuring machine

Industrial Maintenance Certificate of Achievement

Industrial Maintenance certified trainees are needed in every industry that uses machinery, from automotive assembly plants to crane manufacturers. Technicians who successfully complete these courses may receive industrial maintenance certificate. Certified technicians will be able to demonstrate specialized skills and will have more opportunities for career advancement. Technicians who successfully complete some of the NCCER (National Center of Construction Education and Research) modules will receive credit toward this certificate and vice versa.

Code	Title	Units
Required Courses		
MACH 010	Fundamentals of Industrial Maintenance	1
MACH 014	Craft Related Quantitative Skills	1
MACH 016	Construction Print Reading	1
MACH 018	Gaskets, Pumps, and Valves	1.5
MACH 020	Material Handling, and Support Equipment	1.5
MACH 024	Introduction to Piping	1
MACH 026	Valve Maintenance and Testing	1
MACH 028	Introduction to Bearings	1
MACH 029	Basic Layout for Industrial Maintenance	1
MACH 030	Introduction to Steam Systems	2
MACH 032	Distillation Towers and Vessels	1
MACH 034	Heaters and Cooling Towers	1
MACH 050	Electrical Safety and Hand Bending	1
MACH 052	Fasteners and Electrical Theory	1
MACH 054	National Electrical Code (NEC) and Electrical Test Equipment	2
MACH 058	Electrical Print Reading and Wiring	1
MACH 060	Electrical Performance Testing	1
WELD 012	Oxy-Fuel Welding	2
Total Units		22

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate the proper use and basic maintenance of selected industrial maintenance tools
- Use layout tools for repairing or modifying machinery and sheet metal
- Safely use test equipment to take measurements

Machine Technology Certificate of Achievement

This certificate is designed to prepare students for entry-level employment in manufacturing using machine tools such as lathes, milling machines, and spindles to produce precision metal parts.

Code	Title	Units
Required Courses		
MACH 021	Machine Shop I	4
MACH 022	Machine Shop II	4
MACH 090	Mechanical Print Reading	3
MACH 120	Machine Shop Theory	2
MACH 123	Machine Shop III	4
MACH 124	Machine Shop IV	4
TECALC 087	Technical Calculations	4
Total Units		25

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Properly use hand grind cutting tools in machine tool cutting operations
- Set up a lathe to cut an external thread
- Demonstrate metrology utilizing precision measuring tools including steel rule, calipers, micrometer, surface plate, height gage, test indicators, etc.
- Calculate angles for work set-up
- Set up and operate a rapid indexing head
- Set part in surface grinder and grind a compound angle

Machinist Standard Associate of Science Degree

This degree is designed to prepare students for entry-level employment in manufacturing using advanced setup techniques on machine tools such as lathes, mills, and grinders to produce close tolerance precision parts.

Code	Title	Units
Required Courses		
MACH 021	Machine Shop I	4
MACH 022	Machine Shop II	4
MACH 090	Mechanical Print Reading	3
MACH 091	Geometric Dimensioning & Tolerancing	2
MACH 120	Machine Shop Theory	2
MACH 123	Machine Shop III	4
MACH 124	Machine Shop IV	4
MACH 129	Manufacturing Processes	3
Total Units		26

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Identify numerous hand tools
- Identify the different classifications and properties of ferrous and non-ferrous materials
- Demonstrate the process of indicating a machine head to the table with an accuracy of .0005'
- Identify features in orthographic multi-views

Machinist Standard Certificate of Achievement

This certificate is designed to prepare students for entry-level employment in manufacturing using advanced setup techniques on machine tools such as lathes, mills, and grinders to produce close tolerance precision parts.

Code	Title	Units
Required Courses		
MACH 021	Machine Shop I	4
MACH 022	Machine Shop II	4
MACH 123	Machine Shop III	4
MACH 124	Machine Shop IV	4
MACH 120	Machine Shop Theory	2
MACH 090	Mechanical Print Reading	3
MACH 091	Geometric Dimensioning & Tolerancing	2
MACH 129	Manufacturing Processes	3
Total Units		26

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Identify numerous hand tools
- Identify the different classifications and properties of ferrous and non-ferrous materials
- Demonstrate the process of machine head to the table with an accuracy of .0005'
- Identify features in orthographic views

Tool & Die Associate of Science Degree

To graduate with a specialization in Tool and Die, students must complete the following required courses for the certificate plus the general breadth requirements for the Associate of Science Degree (minimum total = 60 units).

Code	Title	Units
Required Courses		
MACH 021	Machine Shop I	4
MACH 022	Machine Shop II	4
MACH 090	Mechanical Print Reading	3
MACH 120	Machine Shop Theory	2
MACH 123	Machine Shop III	4
MACH 124	Machine Shop IV	4
Required Specialized Courses		
MACH 061	Jig and Fixture Machining	4
MACH 129	Manufacturing Processes	3
MACH 160	Tool and Die	4
Total Units		32

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate safety by passing NIMS and OSHA safety
- Read and perform work according to blueprints or drawing sheets
- Operate machinery to complete a task with precision and accuracy

Tool & Die Certificate of Achievement

This certificate is designed to prepare students for entry-level employment in producing tools, dies, and special guiding and holding devices that enable machines to manufacture a variety of products used daily - from clothing to furniture to heavy equipment and parts for aircraft.

Code	Title	Units
Required Courses		
MACH 021	Machine Shop I	4
MACH 022	Machine Shop II	4
MACH 090	Mechanical Print Reading	3
MACH 120	Machine Shop Theory	2
MACH 123	Machine Shop III	4
MACH 124	Machine Shop IV	4
TECALC 087	Technical Calculations	4
Required Specialized Courses		

MACH 061	Jig and Fixture Machining	4
MACH 129	Manufacturing Processes	3
MACH 160	Tool and Die	4
Total Units		36

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate safety by passing NIMS and OSHA safety
- Read and perform work according to blueprints or drawing sheets
- Operate machinery to complete a task with precision and accuracy

Mathematics

The Mathematics Department offers coursework in all levels of mathematics from arithmetic through differential equations and linear algebra. Students seeking improvement in their basic mathematical skills and those desiring development of advanced mathematical methods can all find meaningful activities in the mathematics program. While there are job opportunities in pure mathematics, there are even more in education, business, engineering, and other technical fields that rely on mathematics. Students planning to transfer to a four-year institution and major in mathematics or a related field should consult with a counselor regarding the transfer process and lower division requirements.

Sequence of Mathematics Courses at SBVC

Students pursuing an AS-T in Mathematics or a STEM major are recommended to follow the STEM track sequence. Non-STEM majors should take a course in the non-STEM track, if required. Please contact a counselor to see what course is appropriate for your educational goals. Eligibility to enroll in a mathematics course is subject to the SBVC Self-Guided Placement. Please contact a counselor for details.

Code	Title	Units
STEM Track		
MATH 102	College Algebra ¹	4
MATH 103	Plane Trigonometry ¹	4
MATH 151	Precalculus	4
MATH 250	Single Variable Calculus I	4
MATH 251	Single Variable Calculus II	4
MATH 252	Multivariable Calculus	5
MATH 265	Linear Algebra	4
MATH 266	Ordinary Differential Equations	4
Note: MATH 102 and MATH 103 can be taken simultaneously.		

Code	Title	Units
Non-STEM Track		
MATH 108	Introduction to Probability and Statistics ²	4
MATH 115	Ideas of Mathematics ²	3
MATH 141	Business Calculus ^{1,2}	4
MATH 102	College Algebra ^{1,2}	4
MATH 103	Plane Trigonometry ^{1,2}	4

- ¹ Be advised, this course assumes a student has completed Intermediate Algebra or Algebra 2, or an equivalent such as Math III.
- ² Please contact a counselor to see if this course is appropriate to your educational goals.

Code	Title	Units
Remedial Courses		
MATH 601	Independent Lab for Fundamental Mathematical Skills	0
MATH 942	Arithmetic	3
MATH 952	Prealgebra	4
MATH 962	Arithmetic and Prealgebra	5
MATH 090	Elementary Algebra	4
MATH 095	Intermediate Algebra	4
MATH 096	Elementary and Intermediate Algebra	5

Code	Title	Units
Support Courses		
MATH 602	Support for College Algebra	0
MATH 608	Support for Introductory Statistics	0
Note: MATH 602 and MATH 608 are taken simultaneously with MATH 102 and MATH 108; respectively.		

ALEKS Lab

This lab is located in PS - 131 and is for students enrolled in MATH 601, Independent Lab for Fundamental Mathematical Skills. Students interested in enrolling in this course must consult with a STEM counselor: <http://www.sbvstem.org/stem-counseling.php>

The benefits from the ALEKS lab include:

- Support for non-tradition/traditional students
- Acknowledge the level of strength and weakness in mathematics
- One-on-one tutoring in Mathematics

Contact Information

Division: Mathematics, Business, and Computer Technology (B - 127)

Division Phone Number: (909) 384-8520

Faculty Chair: Vicente Alvarez (valvarez@sbccd.edu), Ph.D.

-
- Mathematics Associate of Science Transfer Degree (p. 239)

MATH 090 4 Units Elementary Algebra

Lecture: 72 contact hours

This course includes the basic concepts typically introduced in high school algebra, including operations on polynomials, exponents, solving linear and quadratic equations, linear inequalities, system linear of equations, word problems, factoring, rational expressions, and graphing linear equations.

Associate Degree Applicable

MATH 095 4 Units

Intermediate Algebra

Lecture: 72 contact hours

This course includes finding solutions to quadratic equations and inequalities, rational exponents and radicals, solving linear systems of equations and inequalities, functions, exponential and logarithm functions, and application problems.

Associate Degree Applicable

MATH 096 5 Units

Elementary and Intermediate Algebra

Lecture: 90 contact hours

This combined course in algebra includes the concepts typically introduced in Elementary and Intermediate Algebra. This course includes factoring, rules of exponents, operations on polynomials, rational expressions, and radical expressions. Topics also consist of finding solutions to equations, such as linear, quadratic, rational, radical, exponential and logarithmic. Additional topics include inequalities (linear, quadratic, and rational), solving linear systems of equations and inequalities, functions, and application problems.

Associate Degree Applicable

MATH 102 4 Units

College Algebra

Lecture: 72 contact hours

Prerequisite: MATH 095 or MATH 096 or eligibility for MATH 102 as determined through the SBVC assessment process.

This course is designed for students with a strong foundation in algebra. It includes the study of polynomial rational functions and inequalities, exponential and logarithmic functions, conics, systems of nonlinear equations and inequalities, and an introduction to sequences, series, and the Binomial Theorem.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: MATH 150/151

MATH 103 4 Units

Plane Trigonometry

Lecture: 72 contact hours

Prerequisite: MATH 095 or MATH 096 or eligibility for MATH 103 as determined through the SBVC assessment process.

This course provides a study of trigonometric functions, identities, trigonometric equations, periodicity, graphs of trigonometric functions, inverse trigonometric functions, solving right triangles, solving triangles using the Law of Cosines and Law of Sines, polar coordinates, and an introduction to vectors.

Associate Degree Applicable

Transfers to CSU only

C-ID: MATH 851

MATH 108 4 Units

Introduction to Probability and Statistics

Lecture: 72 contact hours

Prerequisite: MATH 095 or MATH 096 or eligibility for MATH 108 as determined through the SBVC assessment process.

This course is an introduction to probability, descriptive and inferential statistics, with applications to the natural sciences, life science, health science, education, business, economics, and the behavioral sciences.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: MATH 110

MATH 115 3 Units**Ideas of Mathematics****Lecture:** 54 contact hours**Prerequisite:** MATH 095 or MATH 096 or eligibility for MATH 115 as determined through the SBVC assessment process.

This course includes sets, propositional logic, inductive reasoning and applications, mathematical patterns, counting methods, and finite probability spaces.

Associate Degree Applicable**Transfers to both UC/CSU****MATH 141 4 Units****Business Calculus****Lecture:** 72 contact hours**Prerequisite:** MATH 095 or MATH 096 or eligibility for MATH 141 as determined through the SBVC assessment process.**Advisory:** MATH 102

This course is a study of calculus techniques with emphasis placed on concepts related to business and management solutions. Additional applications of derivatives and integrals of functions including polynomials, rational, exponential and logarithmic functions are studied.

Associate Degree Applicable**Transfers to both UC/CSU****MATH 151 4 Units****Precalculus****Lecture:** 72 contact hours**Prerequisite:** MATH 102 and MATH 103 or eligibility for MATH 151 as determined through the SBVC assessment process.

This course provides foundational skills to facilitate success in calculus. Topics include polynomials and rational functions, exponential and logarithmic functions, systems of nonlinear equations and inequalities, parametric and polar equations, trigonometric functions, and limits.

Associate Degree Applicable**Transfers to both UC/CSU****MATH 222 1-3 Units****Independent Study in Mathematics****DIR:** 54 contact hours**Prerequisite:** MATH 095 or MATH 096

Students with previous course work in mathematics may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of mathematics. Prior to registration, a written contract must be jointly prepared by the instructor and the student.

Associate Degree Applicable**Transfers to CSU only****MATH 250 4 Units****Single Variable Calculus I****Lecture:** 72 contact hours**Prerequisite:** MATH 151 or eligibility for MATH 250 as determined through the SBVC assessment process.

This is a first course in calculus, including limits, continuity, derivatives of algebraic and transcendental functions, applications of derivatives, antiderivatives, the Fundamental Theorem of Calculus, definite integrals and their applications.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MATH 211/900S**MATH 251 4 Units****Single Variable Calculus II****Lecture:** 72 contact hours**Prerequisite:** MATH 250

This second course in calculus provides further application of definite integrals, differentiation and integration of transcendental functions, techniques of integration, L'Hopital's rule and improper integrals, infinite sequences and series, Taylor and power series, polar and parametric equations.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MATH 221/900S**MATH 252 5 Units****Multivariable Calculus****Lecture:** 90 contact hours**Prerequisite:** MATH 251

This third course in calculus includes vectors, lines, and simple surfaces in three-dimensional space, some linear algebra topics, vector-valued functions, partial derivatives, multiple integrals, line integrals and Green's Theorem, surface integrals and the theorems of Gauss and Stokes.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MATH 230**MATH 265 4 Units****Linear Algebra****Lecture:** 72 contact hours**Prerequisite:** MATH 250

This course provides an introduction to linear algebra that complements advanced courses in calculus. Topics include systems of linear equations, matrix operations, determinants, vectors and vector spaces, eigenvalues and eigenvectors, and linear transformations.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MATH 250/910S**MATH 266 4 Units****Ordinary Differential Equations****Lecture:** 72 contact hours**Prerequisite:** MATH 251**Advisory:** MATH 252

The course is an introduction to ordinary differential equations including both quantitative and qualitative methods as well as applications from a variety of disciplines. Introduces the theoretical aspects of differential equations, including establishing when solution(s) exist, and techniques for obtaining solutions, including, series solutions, and singular points, Laplace transforms and linear systems.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MATH 240/910S**MATH 601 Noncredit****Independent Lab for Fundamental Mathematical Skills****Lab:** 54 contact hours

This noncredit course is offered as a study or review of the fundamental concepts of arithmetic, prealgebra, beginning algebra, and intermediate algebra as appropriate based on individual student needs. The course is intended for students who need to refresh their math skills prior to taking a college level math course.

**MATH 602 Noncredit
Support for College Algebra**

Lab: 54 contact hours

Corequisite: MATH 102

This noncredit course is a review of the prerequisite skills essential for college algebra. This course includes a review of topics covered in elementary and intermediate algebra as appropriate, based on individual student needs. The course is intended for students who need to refresh their math skills while enrolled in a college algebra math course to be used for just in time remediation.

**MATH 608 Noncredit
Support for Introductory Statistics**

Lab: 54 contact hours

Corequisite: MATH 108

This noncredit course is a review of the prerequisite skills essential for statistics. This course includes a review of topics covered in arithmetic and algebra as appropriate, based on individual student needs. The course is intended for students who need to refresh their math skills while enrolled in an introductory statistics course to be used for just in time remediation.

**MATH 942 3 Units
Arithmetic**

Lecture: 54 contact hours

This course is a basic skills course in arithmetic including the fundamental operations of whole numbers, fractions, decimals, ratios, proportions, and percents.

**MATH 952 4 Units
Prealgebra**

Lecture: 72 contact hours

This course is an introduction to mathematical properties; exponential notation; linear equations in one variable; algebraic word problems; variables; polynomials; and the appropriate operation rules for rational numbers, whole numbers and integers; an emphasis on speaking, listening, reading, and writing in communicable mathematics terminology.

**MATH 962 5 Units
Arithmetic and Prealgebra**

Lecture: 90 contact hours

This course is an introduction to mathematical properties, including the fundamental operations of whole numbers, integers, fractions, decimals, ratios, proportions, and percent. Topics also include exponential notation, linear equations in one variable, algebraic word problems, variables, polynomials, and the appropriate operation rules for rational numbers, whole numbers and integers.

Mathematics Associate of Science Transfer Degree

Mathematics is one of the oldest sciences. Mathematicians usually work in two general areas of mathematics, theoretical or applied mathematics. Mathematicians expand mathematical knowledge, by discovering mathematical principles or expanding on known mathematical theory. Mathematicians develop models indirectly or directly to solve problems in other fields such as business, chemistry, biology, physics, engineering, statistics, computer science, and other sciences.

An AS-T degree in mathematics includes a general study of calculus, with additional study in linear algebra, differential equations, or computer science. The degree will prepare students to successfully complete additional study in mathematics at CSU.

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

To earn this Mathematics AS-T degree, students must meet the following requirements:

- completion of the following major requirements with grades of C or better;
- Completion of a minimum of 60 CSU transferrable semester units with a grade point average of at least 2.0; and
- certified completion of the CSU General Education-Breadth (CSU-GE) or Intersegmental General Education Transfer Curriculum (IGETC) for CSU, which requires a minimum of 37-39 units.

It is highly recommended that students complete courses that satisfy the U.S. History, Constitution, and American Ideals requirement as part of CSUGE or IGETC before transferring to a CSU.

Students planning on transferring to a four-year institution and major in Early Childhood Education should consult with a counselor regarding the transfer process and lower division requirements.

Code	Title	Units
Required Courses		
MATH 250	Single Variable Calculus I	4
MATH 251	Single Variable Calculus II	4
MATH 252	Multivariable Calculus	5
Select 8 units from Lists A and B, with at least 4 units from List A.		
List A: Select one to two courses from the following		
MATH 265	Linear Algebra	4
MATH 266	Ordinary Differential Equations	4
List B: Select one course from the following		
CS 190	Programming in C++	4
PHYSIC 202	Physics I	4
MATH 108	Introduction to Probability and Statistics	4
or ECON 208	Business and Economic Statistics	
Code	Title	Units
Major Total		21
Total Units That May Be Double Counted		3
General Education (CSU-GE or IGETC) Units		37-39
Elective (CSU Transferable) Units		3-5
Total Units		60

See Section on Degree, Certificate, and Transfer Information for additional information on the Associate Degrees for Transfer.

To earn an SBVC Associate Degree for Transfer (AA-T or AS-T) students must complete one of the following general education patterns:

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Apply mathematical rules to manipulate mathematical expressions
- Differentiate between theoretical and applied mathematical concepts
- Integrate mathematical concepts and principles to other science disciplines
- Model a real world problem using a mathematical model

Music

The SBVC Music Department offers a comprehensive program of music study. The faculty and students in the department of music share a deep and abiding love for their art and a common desire to achieve excellence in it. The curriculum provides basic preparation for careers in music or further study and is designed to provide a balanced education in the many facets of musical experience. It is the goal of the music department to help students develop their own musical and intellectual potential to the highest possible level.

Students planning to transfer to a four-year institution and major or minor in Music should consult with a counselor regarding the transfer process and lower-division requirements, as well as reach out to the Faculty Chair.

Contact Information

Division: Arts and Humanities (NH - 223)

Division Phone Number: (909) 384-8633

Faculty Chairs: Melinda Fogle (%20mfogle@sbccd.edu), Ph.D. and Margaret Worsley (mworsley@sbccd.cc.ca.us), M.M.

Department Website (<http://www.valleycollege.edu/music/>)

-
- Music Associate of Arts Degree (p. 245)
 - Music Associate of Arts Transfer Degree (p. 246)

MUS 100 3 Units

Music Appreciation

Lecture: 54 contact hours

Advisory: ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course introduces students to music in western civilization and methods of music listening. Included in this course are guidelines for thoughtful music selection, basic musical forms, cross-cultural studies in music, music periods and styles, a discussion of patrons and audiences, careful consideration of the role of women in creating music, history of art music, popular music, world music, and jazz.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: MUS 100

MUS 101 3 Units

Music Theory I: Fundamentals

Lecture: 54 contact hours

Corequisite: MUS 101L

Advisory: ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course studies music terminology, elements of music (pitch, duration, intensity, and timbre), rhythmic analysis, major scales and their key signatures, chromatic scales, intervals, and solfeggio syllables. It is a course designed for the beginning student with a moderate interest in the structure of music. It is also designed for the music major and as such serves as the first in a four-part series of music theory courses.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: MUS 120

MUS 101L 1 Unit

Musicianship I

Lab: 54 contact hours

Corequisite: MUS 101

Specifically, this course applies the materials studied in Music Theory I through sight-singing (using solfeggio syllables), keyboard skills (the playing of scales and identification of pitches on the keyboard), recognition and performance of intervals, and some ear-training (melodic dictation). This course is the companion course to MUS 101.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: MUS 125

MUS 102 3 Units

Music Theory II: Scales and Modes

Lecture: 54 contact hours

Prerequisite: MUS 101 and MUS 101L

Corequisite: MUS 102L

This course is a foundational discussion of analytical and compositional techniques through a progressive study of the following: four-part chorale composition (in diatonic harmony) including secondary dominants and other applied chordal structures; basic introduction into contrapuntal writing (two part only), voice leading, additional non-harmonic tones and modulation to relative, parallel and distant keys. It is the second in a four-part series of music theory courses designed for the music major.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: MUS 130

MUS 102L 1 Unit

Musicianship II

Lab: 54 contact hours

Prerequisite: MUS 101 and MUS 101L

Corequisite: MUS 102

Advisory: MUS 134A

This course continues to focus on the study of musicianship through its components. It explores dictation skills (the notation of aural impressions), the continued use of solfeggio syllables to discern pitches within a tonal framework, keyboard fundamentals, and is designed to elevate the student's level of dictation and musical analysis. It is the companion course to MUS 102.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: MUS 135

MUS 104 3 Units**History of Rock and Roll****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course is a chronological survey of rock music styles. Included in the course is a study of the origins and the development of Rock and Roll. The major performing artists, composers, lyricists, promoters and arrangers are all studied. A major aspect of the course is the emphasis on how Rock and Roll has impacted Western culture.

Associate Degree Applicable**Transfers to both UC/CSU****MUS 105 3 Units****American Popular Music****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course traces the social history of America through a study of the eras of popular American music. By examining the various styles, the outstanding musicians and the leading composers exemplary of those styles, this class illustrates how the historical era impacts the music and how the music reflects the historical era. The course begins with a discussion of popular music examining the popular songs of the colonies and the schools of singing that developed. The discussion continues through the music of the Civil War and tracks popular music across the great westward expansion. It concludes with studies of Gospel, Blues, Jazz and ultimately Rock and Roll.

Associate Degree Applicable**Transfers to both UC/CSU****MUS 106 3 Units****History of Jazz****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course is a chronological survey of Jazz forms, styles, and movements. Included in the course is a study of the origins and the development of Jazz. The major performing artists, composers, lyricists and arrangers are all studied. An emphasis is placed on the impact of Jazz on Rock and Roll and Pop Music. Another emphasis is placed on the impact of Classical Music on Jazz as well as the impact that Jazz has had in recent years on Classical Music.

Associate Degree Applicable**Transfers to both UC/CSU****MUS 107 3 Units****Music of the World****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course is a survey of traditional and folk music of the Americas, Europe, Near-Middle-Far East and sub-Saharan Africa. The course includes live and filmed performances and introduces students to the instrumental and vocal techniques, musical structures and performance contexts within selected cultures of these areas. The impact of western influences on these cultures and their music is also discussed in this course.

Associate Degree Applicable**Transfers to both UC/CSU****MUS 108 3 Units****History of Hip Hop Music****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course presents the development of Hip hop as a musical style and cultural movement. Students will examine key figures in Hip hop, institutions, and social settings through readings, electronic media, videos, and live performance. Students will also investigate how Hip hop culture is not only a source of entertainment, but also a medium that analyzes and/or provides commentary regarding social, economic, political, and cultural issues dealing with identity, cultural genocide, misogyny, racism, classism, materialism, freedom of speech, and sexuality.

Associate Degree Applicable**Transfers to both UC/CSU****MUS 117A 1 Unit****Elementary Acoustic Guitar****Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course is a study of basic guitar emphasizing stringing, tuning and fingering. Students must provide their own acoustic guitar.

Associate Degree Applicable**Transfers to both UC/CSU****MUS 117B 1 Unit****Intermediate Acoustic Guitar****Lab:** 54 contact hours**Prerequisite:** MUS 117A**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course is a study of intermediate guitar emphasizing stringing, tuning and fingering. The development of playing techniques and notation will also be studied. Students must provide their own acoustic guitar.

Associate Degree Applicable**Transfers to both UC/CSU****MUS 117C 1 Unit****Intermediate/Advanced Acoustic Guitar****Lab:** 54 contact hours**Prerequisite:** MUS 117B**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is a study of intermediate/advanced guitar emphasizing stringing, tuning and more complex fingering. The development of playing techniques, notation, reading guitar music and the playing of melodies will also be studied. Students must provide their own acoustic guitar.

Associate Degree Applicable**Transfers to both UC/CSU****MUS 117D 1 Unit****Advanced Acoustic Guitar****Lab:** 54 contact hours**Prerequisite:** MUS 117C**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course is a study of advanced guitar with an emphasis on stringing, tuning and complex fingering. The development of playing techniques, notation, reading guitar music, playing melodies, chord construction, and accompaniment will also be studied. Students must provide their own acoustic guitar.

Associate Degree Applicable**Transfers to both UC/CSU**

MUS 121 3 Units**Music History and Literature - Middle Ages Through Baroque****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course provides an overview of the historical development of music from the Middle Ages (1450) through the Baroque Period (1750). Emphasis is placed on appreciation of musical form, and the role of music in a multicultural society relative to historical events.

Transfers to both UC/CSU**C-ID:** MUS 105**MUS 121H 3 Units****Music History and Literature - Middle Ages Through Baroque - Honors****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course provides an overview of the historical development of music from the Middle Ages (1450) through the Baroque Period (1750). Emphasis is placed on appreciation of musical form, and the role of music in a multicultural society relative to historical events. This course is intended for students in the Honors Program, but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 105**MUS 122 3 Units****Music History and Literature - Classic through Contemporary****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course provides an overview of the historical development of music from Classicism (1750) to the present. Emphasis is placed on appreciation of musical form, and the role of music in a multicultural society relative to political and artistic events.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 106**MUS 122H 3 Units****Music History and Literature - Classic Through Contemporary - Honors****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course provides an overview of the historical development of music from Classicism (1750) to the present. Emphasis is placed on appreciation of musical form, and the role of music in a multicultural society relative to political and artistic events. This course is intended for students in the Honors Program, but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 106**MUS 123 3 Units****Electronic Music I****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course is an introduction to computer-based music recording using MIDI and digital audio. Course topics include MIDI sequencing software, notation software, basic digital audio, microphones, interfaces, and other hardware used in recording studios.

Associate Degree Applicable**Transfers to CSU only****MUS 124 3 Units****Electronic Music II****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** MUS 123**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course will cover advanced uses of sequencing software, notation software, digital audio, microphones, interfaces, and other hardware used in recording studios.

Associate Degree Applicable**Transfers to CSU only****MUS 130 3 Units****Elementary Voice****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course is an introduction and progressive study of vocal techniques including muscular aspects and sound of producing properties of the vocal mechanism with emphasis on singing and vocal projection used in speech, drama, and standard vocal literature.

Associate Degree Applicable**Transfers to both UC/CSU****MUS 131 3 Units****Intermediate Voice****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** MUS 130**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course is designed for the singer who has had formal vocal training and wishes to pursue additional training for a career in the vocal arts. Emphasis is on vocal technique, voice quality, expression, style, interpretation, stage presence, and multi-language diction.

Associate Degree Applicable**Transfers to both UC/CSU**

MUS 133 1 Unit**Elementary Piano****Lecture:** 9 contact hours**Lab:** 27 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course teaches practical keyboard facility that is applicable for the piano, organ, and electronic keyboard. It emphasizes sight reading, elementary improvisation, harmonization of folk and pop melodies, and leads to performance of simple piano selections.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 170**MUS 134 1 Unit****Intermediate Piano****Lecture:** 9 contact hours**Lab:** 27 contact hours**Prerequisite:** MUS 133**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course focuses on the improvement of keyboard facility and sight reading abilities, utilizing improvisation and harmonization skills through simplified arrangements and original composition. This course will be useful for those desiring to strengthen keyboard skills. (Formerly MUS 134A)

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 171**MUS 135 1 Unit****Advanced Piano****Lecture:** 9 contact hours**Lab:** 27 contact hours**Prerequisite:** MUS 134 and MUS 102 and MUS 102L or an audition with the instructor.**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.]

This course focuses on the improvement of keyboard facility and sight-reading abilities. It advances improvisation and harmonization skills. It is primarily concerned with more advanced complex piano works by the master composers: Chopin, Beethoven, Mozart, Brahms and others.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 172**MUS 141X2 0.5 Units****Applied Music I****Lab:** 27 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

Students receive credit for a minimum of one-half hour of weekly private instruction on a musical instrument or voice. Daily laboratory practice, concert and ensemble participation are required. The course is open to all students in the college, with enrollment priority given to music majors. An audition with the director is mandatory for participation in this course. Public performances are mandatory.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 160**MUS 150X4 1 Unit****Mixed Chorus****Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course develops foundational techniques in such aspects of choral music as breathing, posture, tone production, enunciation and musicianship. This ensemble focuses on choral music from a variety of stylistic periods including classical, spiritual, folk and musical theatre. Neither experience nor an audition is necessary. This course may be taken four times.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 180**MUS 152X4 2 Units****Chamber Singers****Lab:** 108 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

In this course, students will study and perform a wide variety of outstanding music literature from all periods suitable to a chamber group, including classical genres and contemporary art music as well as musical theater and opera excerpts. An audition with the director is mandatory. This course may be taken four times.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 180**MUS 153X4 2 Units****Chamber Chorale****Lab:** 108 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This is a small (20) ensemble of singers, each with considerable solo and choral classical music experience. Students will train as both classical vocal soloists and choral musicians. Students will study intonation, sectional balance and choral blending. Repertoire will be entirely classical in nature, in multiple languages and composed specifically with a small intimate sound in mind. An audition with the director is mandatory. This course may be taken four times.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 180**MUS 154X4 2 Units****College Singers****Lab:** 108 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

In this course, students will study and perform a wide variety of outstanding music literature from all periods suitable to a large sized choral ensemble, including music from the Renaissance, Baroque, and Romantic eras. Neither experience nor an audition is necessary. This course may be taken four times.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 180

MUS 156X4 2 Units**Concert Choir****Lab:** 108 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

In the course, students will study and perform a wide variety of outstanding music literature from all periods suitable to a medium to large size chorale, including music of a classical nature from the Renaissance Period to the Twentieth Century. Neither experience nor an audition is necessary. This course may be taken four times.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 180**MUS 158X4 1 Unit****Gospel Choir****Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

Repertoire in the course focuses on the African-American gospel traditions. Historical analysis of the spirituals, as well as vocal and performing techniques are emphasized. An audition with the director is mandatory. This course may be taken four times.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 180**MUS 159X4 2 Units****Theatrical Music Workshop****Lab:** 108 contact hours**Prerequisite:** MUS 130 or MUS 152X4 or MUS 154X4 or MUS 156X4

In this course, students study the art of stage movement as it is paired with acoustical song (singing without amplification). Repertoire for this class consists of Opera, Oratorio, Operetta and Operatics excerpts. Students study characterization and stage movement in both principal and chorus parts. Students participate in costuming, makeup and stagecraft. Students are strongly advised to have some classical vocal training prior to enrollment in this course. This course may be taken four times.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 180**MUS 162X4 1 Unit****Wind Ensemble****Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course is for the study, rehearsal, and public performance of musical literature, with an emphasis on the development of skills needed to perform within an ensemble and be emulated by future teachers. This group is the premier classical instrumental ensemble featuring wind, brass, and percussion instruments. An audition with the director is mandatory for participation in this ensemble. Public performances are mandatory.

Associate Degree Applicable**Transfers to CSU only****C-ID:** MUS 180**MUS 166X4 1 Unit****Concert Band****Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course is for the study, rehearsal, and public performance of musical literature, with an emphasis on the development of skills needed to both perform within an ensemble, and be emulated by future teachers. This group features wind, brass, and percussion instruments; and will rehearse and perform standard band literature. An audition with the director is mandatory for participation in this ensemble.

Associate Degree Applicable**Transfers to CSU only****C-ID:** MUS 180**MUS 170X2 1 Unit****Jazz Improvisation and Theory I****Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course presents the beginning concepts of Jazz improvisation skills and Jazz theory. Emphasis is placed on swing, bebop, and blues. This course is open to instrumentalists and vocalists. An audition with the director is mandatory for participation in this ensemble. (Formerly MUS 170)

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 185**MUS 171X2 1 Unit****Jazz Improvisation and Theory II****Lab:** 54 contact hours**Prerequisite:** MUS 170**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course presents the intermediate to advanced concepts of Jazz improvisation skills and Jazz theory. This is an ensemble with emphasis placed on modal and pentatonic scales, hard bop style, and modern jazz. An audition with the director is mandatory for participation in this ensemble. (Formerly MUS 171)

Associate Degree Applicable**Transfers to both UC/CSU****MUS 180 1 Unit****Instrumental Chamber Music****Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course covers the study and performance of instrumental chamber literature. Students will be organized into various chamber music ensembles to prepare, perform, and record assigned literature. An audition with the director is mandatory for participation in this ensemble.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 185

MUS 201 3 Units**Music Theory III: Basic Harmony****Lecture:** 54 contact hours**Prerequisite:** MUS 102 and MUS 102L**Corequisite:** MUS 201L

This course represents a complete study of the diatonic harmonies from the 17th, 18th and 19th centuries. It includes a review of triad formations and the principles of voice-leading. Included in the course is a review study of seventh chords, secondary dominants, non-harmonic tones, realization of figured bass lines and rudimentary formal analysis. It also includes an introduction of augmented-sixth chords, secondary/applied chords, modulation to more remote keys, Neapolitan sixth chords and some chromatic harmony. An important part of this class is the analysis of chorales by J.S. Bach. This course is the third of a four-part series of theory courses and is primarily designed for the music major.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 140**MUS 201L 1 Unit****Musicianship III****Lab:** 54 contact hours**Prerequisite:** MUS 102 and MUS 102L**Corequisite:** MUS 201

This course emphasizes the further development of skills in sight-singing melodies of simple and compound meter, sight singing of multiple part compositions in both major and minor modes, phrases with an anacrusis and intervals beyond the third. The course includes the study of modulating melodies, two-part melodic dictation, the dictation of triads (in all positions) as well as diatonic seventh chords and simple chord progressions. The course will include the study of all existent triads from the major and minor scales and all church modes as they are performed at the keyboard. It is the companion course to MUS 201.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 145**MUS 202 3 Units****Music Theory IV: Harmony****Lecture:** 54 contact hours**Prerequisite:** MUS 201 and MUS 201L**Corequisite:** MUS 202L

The course is a conclusive study of diatonic harmonies, including further work with secondary dominant chord structures, and figured bass line realizations. It also includes an extensive study of ninth chords: complete, incomplete, and dominant ninth. A study of Neapolitan and augmented sixth chords, 9th, 11th, 13th chords as well as a study of 20th century techniques and Impressionism will be undertaken. The class will conclude its study of Bach chorales and other brief forms. This course is the fourth in a four-part series of theory courses designed for the music major and incorporates the concepts from MUS 201.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 150**MUS 202L 1 Unit****Musicianship IV****Lab:** 54 contact hours**Prerequisite:** MUS 201 and MUS 201L**Corequisite:** MUS 202

This course emphasizes further development of skills in sight-singing by the singing of modal melodies, melodies with non-diatonic tones and melodies containing larger intervals. The course includes dictation of melodies with non-diatonic tones as well as modal melodies. Further, dictation of secondary dominants, augmented and Neapolitan sixth chords and modulations to distantly-related keys are included. Rhythmic dictation with changing meters and mini and maxi triplets are studied. This course is the companion course to MUS 202.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 155**MUS 210 3 Units****Conducting****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** MUS 102 or MUS 102L

This course is an introduction to basic conducting techniques including the practice of basic beat patterns, score reading, and rehearsal techniques. It offers an opportunity to learn and apply the techniques needed for group direction and leadership. Also included are sessions in problem solving and decision making with regard to tempo, dynamics, instrumentation, blend, balance, rhythmic and pitch accuracy.

Associate Degree Applicable**Transfers to both UC/CSU****MUS 222 1-3 Units****Independent Study in Music****DIR:** 54 contact hours

Advisory: ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

Students with previous course work in music may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of music. Prior to registration, a written contract must be prepared. See instructor for details.

Associate Degree Applicable**Transfers to CSU only****MUS 241X2 0.5 Units****Applied Music II****Lab:** 27 contact hours**Prerequisite:** MUS 141x2

Advisory: ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

Students receive credit for a minimum of one-half hour of weekly private instruction on a musical instrument or voice. Daily laboratory practice, concert and ensemble participation are required. The course is open to all students in the college, with enrollment priority given to music majors.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 160

Music Associate of Arts Degree

To graduate with a specialization in Music, students must complete the following required courses plus the general breadth requirements for the Associate Degree (total = 60 units).

Code	Title	Units
Required Theory Courses		
MUS 101	Music Theory I: Fundamentals	3
MUS 101L	Musicianship I	1
MUS 102	Music Theory II: Scales and Modes	3
MUS 102L	Musicianship II	1
MUS 201	Music Theory III: Basic Harmony	3
MUS 201L	Musicianship III	1
MUS 202	Music Theory IV: Harmony	3
MUS 202L	Musicianship IV	1
Required Applied Music Courses		
4 semesters totaling 2 units		
MUS 141X2 & MUS 241X2	Applied Music I and Applied Music II	1
Required Ensemble Courses		
4 semesters with a minimum of 4 units selected from the following:		
MUS 150X4	Mixed Chorus	1
MUS 152X4	Chamber Singers	2
MUS 154X4	College Singers	2
MUS 156X4	Concert Choir	2
MUS 158X4	Gospel Choir	1
MUS 162X4	Wind Ensemble	1
MUS 166X4	Concert Band	1
Total Units		22-26

Code	Title	Units
Recommended Courses		
MUS 100	Music Appreciation	3
MUS 108	History of Hip Hop Music	3
MUS 121	Music History and Literature - Middle Ages Through Baroque	3
or MUS 121H	Music History and Literature - Middle Ages Through Baroque - Honors	
MUS 122	Music History and Literature - Classic through Contemporary	3
or MUS 122H	Music History and Literature - Classic Through Contemporary - Honors	
MUS 123	Electronic Music I	3
MUS 124	Electronic Music II	3
MUS 133	Elementary Piano	1
MUS 170X2	Jazz Improvisation and Theory I	1
MUS 171X2	Jazz Improvisation and Theory II	1
MUS 180	Instrumental Chamber Music	1

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate an understanding of the history of musical styles and genres
- Demonstrate an understanding of music fundamentals and theory
- Acquire knowledge of the social and cultural relevance of music
- Demonstrate basic technical proficiency playing a musical instrument
- Demonstrate through performance or analysis proficiency with lyrical and vocal music

Music Associate of Arts Transfer Degree

The Associate of Arts for Transfer (AA-T) in Music develops a well-rounded musician. Students who pursue this degree will have guaranteed admission to a California State University (CSU) campus upon successful completion of the specified program requirements. This degree provides students with transfer preparation and pre-professional training. Students should consult with a counselor to determine whether this degree is the best option for their transfer goals.

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

To earn a music AA-T degree, students must complete the following Associate Degree for Transfer requirements:

- completion of the following major requirements with grades of C or better;
- completion of a minimum of 60 CSU transferable semester units with a grade point average of at least 2.0; and
- certified completion of the CSU General Education-Breadth (CSU-GE) or Intersegmental General Education Transfer Curriculum (IGETC) for CSU, which requires a minimum of 37-39 units.

It is highly recommend that students complete courses that satisfy the U.S. History, Constitution, and American Ideals requirement as part of CSU-GE or IGETC before transferring to a CSU.

Students planning to transfer to a baccalaureate institution and major in Music should consult with a counselor regarding the transfer process and lower division requirements.

Code	Title	Units
Required Courses		
MUS 101	Music Theory I: Fundamentals	3
MUS 101L	Musicianship I	1
MUS 102	Music Theory II: Scales and Modes	3
MUS 102L	Musicianship II	1
MUS 201	Music Theory III: Basic Harmony	3
MUS 201L	Musicianship III	1
Applied Music		
MUS 141X2 & MUS 241X2	Applied Music I and Applied Music II	1
Large Ensemble		

Select four units from the following:	4
MUS 150X4 Mixed Chorus	1
MUS 152X4 Chamber Singers	2
MUS 153X4 Chamber Chorale	2
MUS 154X4 College Singers	2
MUS 156X4 Concert Choir	2
MUS 158X4 Gospel Choir	1
MUS 162X4 Wind Ensemble	1
MUS 166X4 Concert Band	1
MUS 170X2 Jazz Improvisation and Theory I	1
MUS 171X2 Jazz Improvisation and Theory II	1
List A: (3-4 units)	
MUS 100 Music Appreciation	3
MUS 121 Music History and Literature - Middle Ages Through Baroque	3
or MUS 121H Music History and Literature - Middle Ages Through Baroque - Honors	
MUS 122 Music History and Literature - Classic through Contemporary	3
or MUS 122H Music History and Literature - Classic Through Contemporary - Honors	
MUS 133 Elementary Piano	1
MUS 134 Intermediate Piano	1
MUS 135 Advanced Piano	1
MUS 202 Music Theory IV: Harmony	3
MUS 202L Musicianship IV	1

Code	Title	Units
Major Total		21-26
Total Unit That May Be Double Counted		6
General Education (CSU-GE or IGETC) Units		37-39
Elective (CSU Transferable) Units		1-8
Total Units		60

See Section on Degree, Certificate, and Transfer Information for additional information on the Associate Degrees for Transfer.

To earn an SBVC Associate Degree for Transfer (AA-T or AS-T) students must complete one of the following general education patterns:

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate an understanding of the history of musical styles and genres
- Demonstrate an understanding of music (3) fundamentals and theory
- Acquire knowledge of the social and cultural relevance of music
- Demonstrate basic technical proficiency playing a musical instrument
- Demonstrate through performance or analysis, proficiency with lyrical and vocal music

Nursing

Prerequisites for the Nursing Program

Students must have completed high school or equivalent (transcripts, diploma, G.E.D., or the California State High School Proficiency Exam, or a BA/BS degree from a U.S. regionally accredited institution). The courses listed below must be completed with a grade of a C or higher with a minimum of a 2.75 GPA. International Students must show high school equivalent through third party.

Additional Graduation Requirements

Students Applying to the Nursing Program must complete all General ED courses (except Category IV) required for an AS Degree PRIOR to being accepted into the program.

G.P.A. Requirements to Apply to RN Program

General Education G.P.A.: 2.50

Science G.P.A.: 2.75

Cumulative G.P.A.: 2.50

Contact Information

Division: Health and Life Science (HLS - 101)

Division Phone Number: (909) 384-8645

Department Website (<https://www.valleycollege.edu/academic-career-programs/degrees-certificates/nursing/>)

Program Total Units: 36

Accepted Students are admitted in the Fall and Spring semesters. Students must complete required prerequisites to apply. Applicants must pass a background check, drug screen, and meet the health requirements prior to entry. California law allows for denial of the RN license based on any conviction or legal action related to nursing practice. For further information, go to: www.rn.ca.gov (<http://www.rn.ca.gov/>). SBVC reserves the right to deny students entry based on background check and drug screen.

Required Prerequisite Courses

The GE courses below must be completed with grade of C or higher and a minimum of a 2.50 G.P.A.:

Code	Title	Units
ENGL 101	Freshman Composition	4
or ENGL 101H	Freshman Composition-Honors	
MATH 108	Introduction to Probability and Statistics	4
or PSYCH 105	Statistics for the Behavioral Sciences	
COMMST 100	Elements of Public Speaking	3
or COMMST 100H	Elements of Public Speaking - Honors	
or COMMST 111	Interpersonal Communication	
SOC 100	Introduction to Sociology	3
or SOC 100H	Introduction to Sociology - Honors	
or ANTHRO 102	Cultural Anthropology	
or ANTHRO 102H	Cultural Anthropology - Honors	

Humanities - Select six units from two disciplines (3 units maximum from Applied Area)¹

¹ See Associate Degree Graduation Requirements Category III (p. 45) for list of humanities courses.

Science courses listed below must be completed with a grade of C or higher and a minimum G.P.A. of 2.75 in the four courses:

Code	Title	Units
Human Anatomy and Physiology		
Select one series from the following:		
BIOL 250 & BIOL 251	Human Anatomy and Physiology I and Human Anatomy and Physiology II	8
BIOL 260 & BIOL 261	Human Anatomy and Human Physiology	8
Microbiology		
BIOL 270	Microbiology	5
General Psychology		
PSYCH 100 or PSYCH 100H	General Psychology General Psychology - Honors	3

All coursework must meet the cumulative 2.5 GPA to apply

Note: BIOL 261 (or BIOL 250 & BIOL 251) and BIOL 270 must be taken within 5 years of application to the program; Online sciences will not be accepted. BIOL 250 & BIOL 251 must be completed at the same regionally accredited institution.

Application to the Nursing Program

Applications to the nursing program may only be submitted when all program prerequisites have been completed and met GPA requirements. Admission to the program is based on a multi-criteria points system. Applications must be received only during August 1st -September 1st (spring semester) or January 2 – February 2 (fall semester) or the next business day. Applications are available online during the application periods. Incomplete applications will not be accepted. The HESI Exam is by invitation only.

Submit the following to the Health Science Division Office, HLS 101:

1. Application
2. Online
3. Evaluation of Prior college credit
4. Unofficial Transcripts (SBVC students ONLY)
5. Copy of a valid Social security card or TAX ID number

Submit the following to admissions and records

1. Official college transcripts from all colleges or universities attended except for SBVC Transcripts must be issued within the last 6 months and document that the program prerequisites have been completed
2. International transcripts must be evaluated for equivalency
3. High school completion or equivalent (transcript, G.E.D. or the California State High School Proficiency Exam or a degree from a U.S. accredited institution
4. International students need their high school equivalency evaluated by outside agency

Selection Process

Round 1 selected applicants will be selected based on a multi-criteria selection process (point system). Round 2 selected applicants will be invited back to take the HESI exam that will determine entry into the nursing program. Entrance to the nursing program is limited to students who have completed all prerequisites, met all GPA requirements, taken the HESI exam, and been accepted into the nursing program.

LVN to RN and Psych. Tech to RN Program

Applications will be admitted via the same point system that Generic ADN students are admitted, although in a different pool. Applicants will be required to adhere to all of the same regulations set forth by the multi-criteria point system. All prerequisites are required to be completed prior to submitting an application. Potential LVN applicants will also be sent a Health Education Systems, Inc. Exam (HESI-A2) invite. Please note LVN and Psych. Tech applicants will be in the same pool selection. The application periods will be the same as the ADN application.

Requirements for LVN to RN and Psych Tech to RN

1. Complete all program prerequisites. (Same as the RN program).
2. One-year full-time work experience as an LVN.
3. Current California LVN license.
4. Letter of verification with signature - letter verifying employment as an LVN
5. Detailed Résumé summarizing work experience as an LVN (employer, type of patient care unit, month/year starting and ending dates).

LVN to RN courses upon entry: Complete each of the following courses with a 78% or higher. NURS 130 (includes challenge exams to determine eligibility to enter the following courses NURS 150 or NURS 151 , or NURS 150 or NURS 260 for Psych Tech applicants) .

A 30-unit completion option is available to Licensed Vocational Nurses per the California BRN code of Regulations 1429. However, it is important to note that LVNs choosing to take the 30-unit option can never be qualified as graduates of the SBVC ADN program and will permanently be referred to as having attained a Nursing Non-Degree/Non-Graduate Status. This option is recognized only in the State of California.

- Nursing Associate of Science Degree (p. 251)

NURS 101 2 Units

Application of Critical Thinking to First Level Nursing Practice

Lecture: 18 contact hours

Lab: 54 contact hours

Corequisite: NURS 102 and NURS 104 or NURS 109

This course is designed to facilitate development of critical thinking and the application of first level medical-surgical nursing theory. Included is the analysis of clinical situations, practice of selected first level nursing skills, basic mathematical nursing problems, learning techniques, and use of the nursing process. Graded on a CREDIT/NO CREDIT basis only. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable

Transfers to CSU only

NURS 103 1 Unit**Application of Critical Thinking to Second Level Nursing Practice****Lecture:** 9 contact hours**Lab:** 27 contact hours**Corequisite:** NURS 110 or NURS 112

This course is designed to facilitate development of critical thinking and the application of second level medical-surgical and maternity nursing theory. Included is the analysis of clinical situations, practice of selected second level nursing skills, mathematical nursing problems, and use of the nursing process. Graded on a PASS/NO PASS basis only. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only****NURS 130 2 Units****Psychiatric Technician to Professional Nurse Transition****Lecture:** 27 contact hours**Lab:** 27 contact hours

This course prepares Licensed Psychiatric Technician's (LPT) to transition into the Registered Nursing (RN) program. This course is a first-year course that focuses on the nurse's role in the collection of assessment data, identifying the relevance of the data collected, the analysis of patient priorities, the implementation of nursing interventions, and evaluation of patient care for diverse adult patients. This course includes role transition content, nursing process, standards of practice, and critical thinking in nursing. A challenge examination covering first semester foundations nursing content will determine eligibility for placement within the first semester of the program. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only****NURS 140 2 Units****Vocational to Professional Nurse****Lecture:** 18 contact hours**Lab:** 54 contact hours

This course prepares Licensed Vocational Nurses (LVN) to transition into the Registered Nursing (RN) program. This course is a first-year course that focuses on the nurse's role in the collection of assessment data, identifying the relevance of the data collected, the analysis of patient priorities, the implementation of nursing interventions, and evaluation of patient care for diverse adult patients. This course includes role transition content, nursing process, standards of practice, and critical thinking in nursing. A challenge examination covering first semester medical-surgical nursing content will determine eligibility for placement within the first or second semester of the program. Application of KSAs will occur in the hospital, on-campus skills laboratory, and simulation settings. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only****NURS 150 4 Units****Foundations of Nursing****Lecture:** 36 contact hours**Lab:** 108 contact hours

This course focuses on the nurse's role in the collection of assessment data, identifying the relevance of the data collected, the analysis of patient priorities, the implementation of nursing interventions, and the evaluation of patient care for diverse adults and older adults ages 65 and over by focusing on universal practices including physical assessment, safety, infection control, hygiene, body mechanics, activity/exercise, nutrition, pain management, cultural awareness, communication and documentation. Application of KSAs will occur in the hospital, on-campus skills laboratory, and simulation settings. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only****NURS 151 5 Units****Introduction to Medical Surgical Nursing****Lecture:** 45 contact hours**Lab:** 135 contact hours**Prerequisite:** NURS 150

This course is a first-year course that focuses on the nurse's role in the collection of assessment data, identifying the relevance of the data collected, the analysis of patient priorities, the implementation of nursing interventions, and the evaluation of patient care for diverse adults and adults ages 65 and over, nursing care and administration of medication for patients with the basic healthcare needs in pulmonary, musculoskeletal, cardiovascular, neurological, immunological, gastrointestinal, genitourinary, and endocrine body systems, as well as patients undergoing general surgery and/or requiring wound care. Application of KSAs will occur in the hospital, on-campus skills laboratory, and simulation settings. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only****NURS 160 4 Units****Nursing Care of the Childbearing Family And Newborn****Lecture:** 36 contact hours**Lab:** 108 contact hours**Prerequisite:** NURS 150 and NURS 151**Corequisite:** NURS 161

This course is a first-year nursing course that focuses on the nurse's role in the collection of assessment data, identifying the relevance of data collected, the analysis of patient priorities, the implementation of nursing interventions, and evaluation of patient care for childbearing families. Maternity nursing also focuses on the biophysical aspects of human reproduction, assessment and management of the antepartal, intrapartal, and postpartal periods, and newborn care. Application of KSAs will occur in the hospital, on-campus skills laboratory, and simulation settings. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only**

NURS 161 5 Units**Beginning Medical Surgical Nursing****Lecture:** 45 contact hours**Lab:** 135 contact hours**Prerequisite:** NURS 150 and NURS 151**Corequisite:** NURS 160

This is first-year course that focuses on the nurse's role in the collection of assessment data, identifying the relevance of the data collected, the analysis of patient priorities, the implementation of nursing interventions, and evaluation of patient care for diverse adult patients and adults ages 65 and over with selected healthcare needs in respiratory, cardiovascular, neurological, immunological, gastrointestinal, genitourinary, and endocrine body systems. Application of KSAs will occur in the hospital, on-campus skills laboratory, and simulation settings. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only****NURS 201 1 Unit****Application of Critical Thinking to Third Level Nursing Practice****Lecture:** 9 contact hours**Lab:** 27 contact hours**Corequisite:** NURS 200 or NURS 202

This course is designed to facilitate development of critical thinking and the application of third level medical-surgical and pediatric nursing theory. Includes analysis of clinical situations, practice of third level skills, mathematical nursing problems, and use of the nursing process. Graded on PASS/NO PASS basis only. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only****NURS 203 1 Unit****Application of Critical Thinking to Fourth Level Nursing Practice****Lecture:** 9 contact hours**Lab:** 27 contact hours**Corequisite:** NURS 210 and NURS 212

This course is designed to facilitate development of critical thinking and the application of fourth level medical-surgical, psychiatric and critical care nursing theory. Includes analysis of complex clinical situations, NCLEX style test taking practice, complex mathematical nursing problems and use of the nursing process. Graded on PASS/NO PASS basis only. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Transfers to CSU only**NURS 210 2.5 Units****Nursing Care of the Critically Ill****Lecture:** 27 contact hours**Lab:** 54 contact hours**Prerequisite:** NURS 200 and NURS 202

This course is an advanced medical-surgical nursing course with a focus on the application of the nursing process to critically ill adult patients with single or multiple subsystem failure. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only****NURS 211 3.75 Units****Medical-Surgical Nursing IV****Lecture:** 18 contact hours**Lab:** 148.5 contact hours**Prerequisite:** /**Corequisite:** NURS 210 and NURS 212.

Fourth level medical-surgical nursing focuses on the physiological, psychological, sociocultural, and developmental variables that affect clients. Application of the nursing process is used to manage the nursing care of groups of clients to assist them to attain and maintain their optimum level of wellness. Included are advanced concepts in nursing leadership, home health care, disaster nursing, and aging. Includes preparation for NCLEX (National Council Licensure Examination) examination and explores employment opportunities. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only****NURS 212 2.75 Units****Psychiatric Nursing****Lecture:** 27 contact hours**Lab:** 67.5 contact hours**Prerequisite:** NURS 200 and NURS 202

This is an introduction to psychiatric nursing with a focus on neurobiological theory, suicide, substance abuse, and crisis interventions. Application of the nursing process is used to assist clients with major alterations in the psychological variable to attain and maintain an optimum level of wellness. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only****NURS 217 1 Unit****Advanced Ethical and Legal Aspects of Nursing****Lecture:** 18 contact hours**Prerequisite:** NURS 200 and NURS 202

This course explores ethical, legal and professional aspects of nursing practice. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only**

NURS 250 4 Units**Nursing Care of Children and Their Families****Lecture:** 36 contact hours**Lab:** 108 contact hours**Prerequisite:** NURS 160 and NURS 161**Corequisite:** NURS 251

This is a first-year course that focuses on the nurse's role in the collection of assessment data, identifying the relevance of the data collected, the analysis of patient priorities, the implementation of nursing interventions, and evaluation of patient care for diverse pediatric populations and their families. Pediatric nursing also focuses on a family-centered approach to the nursing care of infants and children. Application of KSAs will occur in the hospital, on-campus skills laboratory, and simulation settings. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only****NURS 251 5 Units****Intermediate Medical Surgical Nursing****Lecture:** 45 contact hours**Lab:** 135 contact hours**Prerequisite:** NURS 160 and NURS 161**Corequisite:** NURS 250

This is a second-year course that focuses on the nurse's role in the collection of assessment data, identifying the relevance of the data collected, the analysis of patient priorities, the implementation of nursing interventions, and evaluation of patient care for diverse adult patients and adults aged 65 and over with selected healthcare needs in neurological, gastrointestinal, respiratory, genitourinary, immunological, cardiovascular, and endocrine diseases. Application of KSAs will occur in the hospital, on-campus skills laboratory, and simulation settings. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only****NURS 260 4 Units****Mental Health Nursing****Lecture:** 36 contact hours**Lab:** 108 contact hours**Prerequisite:** NURS 250 and NURS 251**Corequisite:** NURS 261

This course focuses on the nurse's role in the collection of assessment data, identifying the relevance of the data collected, the analysis of patient priorities, the implementation of nursing interventions, and evaluation of patient care for diverse adult patients and adults aged 65 and over with mental health disorders. Psychiatric nursing also focuses on neurobiological theories, risks and interventions for suicide, substance abuse, and other mental health disorders. Application of KSAs will occur in the hospital, on-campus skills laboratory, and simulation settings. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only****NURS 261 5 Units****Complex Care and Leadership****Lecture:** 45 contact hours**Lab:** 135 contact hours**Prerequisite:** NURS 250 and NURS 251**Corequisite:** NURS 260

This is a second-year nursing course that builds upon previously learned knowledge, skills and attitudes while focusing on the application of the nursing process, discrimination of data, and identification of care priorities in order to manage complex needs of adults ages 65 and over, critically ill or injured adults with single or multisystem failure. Complex Care and Leadership provides learning opportunities for leadership, community outreach and disaster nursing. Correlated clinical experiences provide the senior student opportunities to assume nursing responsibilities in complex care areas and to function as part of an inter-professional team as a pre-licensed preceptee. Application of knowledge, skills and attitudes (K-S-A) will occur in the hospital, on-campus skills laboratory, and simulation settings. The course also reviews graduate responsibilities for the National Council Licensure Examination (NCLEX) application and professional employment/licensure responsibilities. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only****NURS 600 Noncredit****Nursing Assistant Training Program****Lecture:** 60 contact hours**Lab:** 144 contact hours

Students completing the Nursing Assistant Training Program (NATP, NURS 600) course will be prepared to assist the professional nurse in direct client care, undertaking those tasks which are supportive to the care of the stable clients. Limitation on Enrollment: Students must be at least 17 years of age, have a San Bernardino Valley College (SBVC) application on file, are eligible to attend SBVC, have graduated from an accredited high school or equivalent (G.E.D., High School Proficiency Examination), have a CPR certification by American Heart Association.

Nursing Associate of Science Degree

This degree program is designed to prepare students to become Registered Nurses who provide nursing care to assist patients in attaining their maximum level of wellness. Graduates are eligible to apply for their Associate Degree in Nursing (ADN) and take the National Counsel Licensure Examination – RN (NCLEX-RN). The program is accredited by the California State Board of Registered Nursing and the Accreditation Commission for Education in Nursing (ACEN).

To graduate with an Associate of Science degree with a major in nursing, complete each of the following courses with a 78% or higher along with the general education breadth requirements. (The Prerequisites that are required)

Code	Title	Units
Required Courses		
First Semester		
NURS 150	Foundations of Nursing	4
NURS 151	Introduction to Medical Surgical Nursing	5
Second Semester		
NURS 160	Nursing Care of the Childbearing Family And Newborn	4

NURS 161	Beginning Medical Surgical Nursing	5
Third Semester		
NURS 250	Nursing Care of Children and Their Families	4
NURS 251	Intermediate Medical Surgical Nursing	5
Fourth Semester		
NURS 260	Mental Health Nursing	4
NURS 261	Complex Care and Leadership	5
Total Units		36

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate theoretical knowledge related to the care of the patient with medical surgical nursing needs
- Demonstrate knowledge of evidence-based practice related to nursing care
- Demonstrate clinical reasoning in the clinical and laboratory settings
- Demonstrate safe dosage calculation

Occupational Safety and Health Act (OSHA)

Contact Information

Division: Applied Technology, Transportation, and Culinary Arts (T - 108)

Division Phone Number: (909) 384-4451

Faculty Chair: Tarif (Terry) Halabi (thalabi@sbccd.edu), M.S.E.E.

OSHA 010 1 Unit

Federal OSHA Entry Level: Construction Industry Safety

Lecture: 9 contact hours

Lab: 27 contact hours

Advisory: Federal OSHA requires each student be 18 years of age in order to qualify for an OSHA card.

This course provides entry-level construction workers with information about rights, employer responsibilities, how to identify, abate, avoid and prevent job-related hazards on work sites. It also covers construction safety and health hazards that may be encountered on jobs and emphasizes hazard identification and control to prevent illness, injury, or death. Completers may qualify for the Federal OSHA, minimum 10-hour, Construction card.

Associate Degree Applicable

OSHA 015 1 Unit

Federal OSHA Entry-Level: General Industry Safety

Lecture: 9 contact hours

Lab: 27 contact hours

Advisory: Federal OSHA requires each student be 18 years of age in order to qualify for an OSHA card.

This course provides entry-level general industry workers with basic information about rights, employer responsibilities, how to identify, abate, avoid and prevent job-related hazards on a job site. Emphasizes hazard identification, avoidance, control and prevention of illness, injury, or death. Completers may qualify for the Federal OSHA minimum 10-hour card.

Associate Degree Applicable

OSHA 030 2 Units

Federal OSHA Outreach: Construction Industry Safety

Lecture: 18 contact hours

Lab: 54 contact hours

Advisory: Federal OSHA requires each student be 18 years of age in order to qualify for an OSHA card.

This course provides training required by the Occupational Safety and Health Administration (OSHA) for the Federal Outreach Construction Industry, minimum 30-Hour training card. Lessons emphasize hazard identification, avoidance, control and prevention of illness, injury, or death.

Associate Degree Applicable

OSHA 035 2 Units

Federal OSHA Outreach: General Industry Safety

Lecture: 18 contact hours

Lab: 54 contact hours

Advisory: Federal OSHA requires each student be 18 years of age in order to qualify for an OSHA card.

This course provides outreach training and gives general industry workers information about rights, employer responsibilities, how to identify, abate, avoid and prevent job-related hazards on a job site. Lessons will emphasize hazard identification, avoidance, control and prevention of illness, injury, or death. Successful completion may qualify students for the Federal OSHA minimum 30-hour General Industry card.

Associate Degree Applicable

Oceanography

Oceanography courses introduce the marine environment, which comprises 71% of the earth's surface. The courses are designed for both science and non-science majors and are fundamental for students planning to major in oceanography. Students planning to transfer to a four-year institution and major in oceanography should consult with a counselor regarding the transfer process and lower division requirements.

Contact Information

Division: Science (PS - 148)

Division Phone Number: (909) 384-8645

Faculty Chairs: Todd Heibel (theibel@sbccd.edu), Ph.D. and Matthew Robles (mrobles@sbccd.edu), M.S.

OCEAN 101 3 Units**Elements of Oceanography****Lecture:** 54 contact hours**Prerequisite:** ENGL 914 and or placement in ENGL 015 as determined by SBVC assessment process and MATH 942 or placement in MATH 952 as determined by SBVC assessment process.

This course explores the geological processes that created the ocean basins, chemistry of seawater, physical motions of the oceans, and the interrelationships of biological communities with their physical environments. Geospatial analysis of world oceans, including Geographic Information Systems (GIS) and remote sensing, is an integral component of this course. It is recommended that transfer students also enroll in the companion OCEAN 111, Elements of Oceanography Laboratory.

Associate Degree Applicable**Transfers to both UC/CSU****OCEAN 111 1 Unit****Elements of Oceanography Laboratory****Lab:** 54 contact hours**Prerequisite/Corequisite:** OCEAN 101

This hands-on course introduces students to techniques of oceanography, including bathymetry, charts, and methods of studying the physical ocean environment. This course is recommended for students concurrently enrolled in OCEAN 101 or who have successfully completed the course within the last three years.

Associate Degree Applicable**Transfers to both UC/CSU**

Pharmacy Technology

The Pharmacy Technology Program is designed to prepare students for entry-level employment as a pharmacy technician, providing medications and other healthcare products to patients and consumers. Under the supervision of a Pharmacist, students learn to fill prescriptions, establish and maintain patient profiles, prepare insurance claim forms, take inventory, and stock medications. A background check may be required for clinical experience. The California Board of Pharmacy may deny the Pharmacy Technician license based on convictions substantially related to Pharmacy Technician practice.

Prerequisites for the Pharmacy Technology Program

Code	Title	Units
MATH 090	Elementary Algebra	
Select one of the following:		
BIOL 155	Introductory Anatomy and Physiology	
BIOL 250 & BIOL 251	Human Anatomy and Physiology I and Human Anatomy and Physiology II	
BIOL 260 & BIOL 261	Human Anatomy and Human Physiology	

Effective fall 2013, several changes have been made in regard to the prerequisites, course numbering and course sequencing for the Pharmacy Technology program. Please see the information following regarding these changes.

Special advisory notes for continuing Pharmacy Technology students:

For students who have already begun the Pharmacy Technology program prior to fall 2013, please review the following notes:

- Students who have completed PHT-020 with grade of C or higher and still need to complete the remaining first semester Pharmacy

Technology courses, it is required that the newly enforced prerequisites are met.

- Students who have completed all of the first semester Pharmacy Technology courses with grades of C or higher will be permitted to register for the second semester of the Pharmacy Technology courses without having to complete the newly enforced prerequisites (effective fall 2013). Students will need to complete a Prerequisite/Corequisite Challenge prior to the enrollment in second semester courses.
- Students who have previously completed PHT-020 and PHT-030 with grades of C or higher but have not completed PHT-031 (Pharmacy Calculations) with grade of C or higher will now need to meet the math prerequisite for the new Pharmacy Calculation course. Students who have completed the first semester Pharmacy Technology courses with grades of C or higher but have not completed the second semester of Pharmacy Technology coursework with grades of C or higher are recommended but not required to take the newly enforced prerequisites.
- Please note that catalog rights have no bearing on newly enforced prerequisites.

Special advisory notes for new Pharmacy Technology students:

For students who are enrolling in the Pharmacy Technology courses for the first time as of fall 2013, please review the following notes:

- The successful completion of BIOL 155, or BIOL 250 AND BIOL 251, or BIOL 260 AND BIOL 261 with grades of C or higher is a prerequisite for the following entry level Pharmacy Technology courses: PHT 062 (Pharmacology) and PHT 060 (Pharmacy Systems I) [formerly called Introduction to Pharmacy Technology].

The successful completion of MATH 090 or higher with a grade of C or higher is a prerequisite for PHT 064 (Pharmacy Calculations) and PHT 060 (Pharmacy Systems I).

Contact Information

Division: Health and Life Sciences (HLS - 101)

Division Phone Number: (909) 384-8645

Faculty Chair: Lorrie Burnham (lburnham@sbccd.edu), M.S. and Tatiana Vasquez (%20tvasquez@sbccd.edu), M.S.

-
- Pharmacy Technology Associate of Science Degree (p. 254)
 - Pharmacy Technology Certificate of Achievement (p. 255)

PHT 060 3 Units**Pharmacy System I****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** BIOL 155 or BIOL 250 and BIOL 251 or BIOL 260 and BIOL 261

This class introduces the student to the field of pharmacy, its history, environment, and processes. It emphasizes out-patient/community service pharmacy settings in issues of prescription processing, pharmacy business management, federal laws/regulation, protocol procedures, and pharmacy references/associations for assistance.

Associate Degree Applicable

PHT 062 3 Units**Pharmacology I****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** BIOL 155 or BIOL 250 and BIOL 251 or BIOL 260 and BIOL 261

This course introduces the basic pharmacology principles of pharmacokinetics and pharmacodynamics as it applies the therapeutic uses of medications being administered to the human body systems. The student will identify the medication's classifications, emphasizing basic indications, drug dosages, dosage forms, routes of administration, side effects, special directions of use, and drug interactions with other medications, foods, and/or nutrient supplements.

Associate Degree Applicable**PHT 064 3 Units****Pharmacy Calculations****Lecture:** 54 contact hours

In this course students apply mathematical skills to the calculation of medication dosages, intravenous solutions, and pharmacy operations.

Associate Degree Applicable**PHT 070 3 Units****Pharmacy Systems II****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** PHT 060 and PHT 062 and PHT 064

This course covers the application of advanced preparation, distribution and methods for dispensing medications within a institutional pharmacy setting. It emphasizes advanced concepts of medication order processing, non-sterile compounding, sterile compounding, pharmacy business management, data management, pharmacy safety, and pharmacy error prevention under the supervision of a pharmacist.

Associate Degree Applicable**PHT 071 3 Units****Pharmacology II****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** PHT 062

This course continues to apply the therapeutic uses of administered medications into the human anatomy and physiology by a drug's pharmacokinetics and pharmacodynamics. Emphasis is placed on but not limited to a medication's brand/generic name, mechanisms of action, dosage forms, routes of administration, directions of use, standard dosage schedules, indications, basic side effects, adverse effects, contraindications, precautions, drug interactions, and any special black box warnings. Added topics to the course includes medication adjustments for special populations and use of common antidotes for medications.

Associate Degree Applicable**PHT 072 5 Units****Pharmacy Clinical Experience****Lab:** 270 contact hours**Prerequisite:** PHT 060 and PHT 062 and PHT 064**Corequisite:** PHT 074

In this course, students study the application of prescription processing, inventory management and dispensing of medications in a pharmacy under the direct supervision of a pharmacist. It emphasizes use of a pharmacy database, customer service, communication and professional ethics. Students will complete a minimum of 240 experiential hours in a minimum of one site locations.

Associate Degree Applicable**PHT 074 2 Units****Pharmacy Seminar****Lecture:** 36 contact hours**Prerequisite:** PHT 060 and PHT 062 and PHT 064**Corequisite:** PHT 072

This course reviews the duties of a pharmacy technician in the out-patient/community and the in-patient/institutional setting in the areas of pharmacy management/administration, pharmacy federal laws/regulation, and pharmacology.

Associate Degree Applicable**PHT 601 Noncredit****Pharmacy Technician Licensure Exam Preparation****Lecture:** 18 contact hours

This noncredit course prepares students that have completed or are nearing completion of the Pharmacy Technology program for the state administered licensing examination for pharmacy technicians. This course is also recommended for students who desire refresher training. Topics include, but are not limited to: the duties of a pharmacy technician in the out-patient/community and the in-patient/institutional setting in the areas of pharmacy management/administration, pharmacy federal laws/regulation, and pharmacology. Also included are some basic test-taking techniques to increase proficiency on the state exam.

Pharmacy Technology Associate of Science Degree

To earn an Associate Degree with a specialization in Pharmacy Technology, students must complete the required courses plus the general breadth requirements (minimum total = 60 units).

Code	Title	Units
Required Courses		
Complete the following courses with a grade of C or higher.		
PHT 060	Pharmacy System I	3
PHT 062	Pharmacology I	3
PHT 064	Pharmacy Calculations	3
PHT 070	Pharmacy Systems II	3
PHT 071	Pharmacology II	3
PHT 072	Pharmacy Clinical Experience	5
PHT 074	Pharmacy Seminar	2
Select one of the following:		
BIOL 155	Introductory Anatomy and Physiology	
BIOL 250 & BIOL 251	Human Anatomy and Physiology I and Human Anatomy and Physiology II	
BIOL 260 & BIOL 261	Human Anatomy and Human Physiology	
Total Units		26-30

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate the ability to perform the skills and activities of a Pharmacy Technician as demonstrated by successful completion of the Pharmacy Clinical Experience course, PHT 072
- Be educationally prepared to further their education at a four year institution as indicated by successful transfer of those who desire a pharmacy degree to a four year institution
- Use knowledge gained to perform Pharmacy Technician duties as evidenced by applying and obtaining licensure from the California Board of Pharmacy
- The Pharmacy Technology program will meet the needs of the community for Pharmacy Technicians by graduating students fully prepared to obtain employment after completion of all required courses
- Attain their professional goals as evidenced by employment as a Pharmacy Technician within 1 year of graduation

Pharmacy Technology Certificate of Achievement

This certificate is designed to prepare the student for entry-level employment as a pharmacy technician, assisting pharmacists to provide medication and other healthcare products to patients; receiving and verifying written prescriptions, requests for prescription refills from patients, or electronic prescriptions sent from doctors' offices; retrieving, counting, pouring, weighing, measuring, and sometimes mixing medications; and preparing containers and labels for medications. Technicians may also establish and maintain patient profiles, prepare insurance claim forms, and stock and take inventory of prescription and over-the-counter medications.

Code	Title	Units
Required Courses		
Complete the following courses with a grade of C or better		
PHT 060	Pharmacy System I	3
PHT 062	Pharmacology I	3
PHT 064	Pharmacy Calculations	3
PHT 070	Pharmacy Systems II	3
PHT 071	Pharmacology II	3
PHT 072	Pharmacy Clinical Experience	5
PHT 074	Pharmacy Seminar	2
Select one of the following:		4-8
BIOL 155	Introductory Anatomy and Physiology	4
BIOL 250 & BIOL 251	Human Anatomy and Physiology I and Human Anatomy and Physiology II	8
BIOL 260 & BIOL 261	Human Anatomy and Human Physiology	8
Total Units		26-30

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate the ability to perform the skills and activities of a Pharmacy Technician as demonstrated by successful completion of the Pharmacy Clinical Experience course, PHT 072
- Be educationally prepared to further their education at a four year institution as indicated by successful transfer of those who desire a pharmacy degree to a four year institution
- Use knowledge gained to perform Pharmacy Technician duties as evidenced by applying and obtaining licensure from the California Board of Pharmacy
- The Pharmacy Technology program will meet the needs of the community for Pharmacy Technicians by graduating students fully prepared to obtain employment after completion of all required courses
- Attain their professional goals as evidenced by employment as a Pharmacy Technician within 1 year of graduation

Philosophy/Religious Studies

Whatever the vocational goal, students benefit from completing courses in philosophy and religious studies. Nearly everyone is concerned with the kinds of questions and experiences studied in philosophy and religion. Both fields of study are concerned with the nature of reality, truth and value, the human response to death and suffering, and those perennial human questions: Who am I? Why am I here? Where am I going?

Philosophy and religious studies courses require critical analysis, clarity, and understanding. These skills are achieved through careful and close reading of texts, images, and symbols as well as through descriptive and analytic writing. These are invaluable skills transferable to most vocations. Philosophy and religion courses require the study of diverse and often competing belief systems. This challenging and exciting endeavor can help us make sense of the events taking place in the world around us.

Students planning to transfer to a baccalaureate institution and major in philosophy or religious studies should consult a counselor regarding the transfer process and lower division requirements.

Contact Information

Division: Social Sciences, Human Development, and Physical Education (NH - 345)

Division Phone Number: (909) 384-8603

Faculty Chair: Adam Pave (apave@sbccd.edu), Ph.D.

- Philosophy Associate of Arts Transfer Degree (p. 257)

PHIL 101 3 Units

Introduction to Philosophy

Lecture: 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is a general introduction to the major problems in philosophy, with attention directed to both classical and modern philosophy as a basis for discussion of issues such as epistemology, metaphysics, ethics, and aesthetics.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: PHIL 100

PHIL 101H 3 Units**Introduction to Philosophy - Honors****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 as determined by SBVC assessment process and READ 015.

This course is a general introduction to the major problems of philosophy, with attention directed to classical and modern philosophy as a basis for discussion of issues such as epistemology, metaphysics, ethics, and aesthetics. This course is intended for students in the Honors Program but is open to all students who desire more challenging coursework.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** PHIL 100**PHIL 102 3 Units****Critical Thinking and Writing****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course is an introduction to critical thinking focusing on argument and evidence and the ability to write coherent argumentative essays. Topics include recognition of the structures of reasoning in natural language, the evaluation of such reasoning (including informal fallacies), the uses and abuses of language, and an investigation of the rhetorical devices common in our culture. Students practice critical thinking by writing substantive arguments and essays.

Associate Degree Applicable**Transfers to both UC/CSU****PHIL 103 3 Units****Introduction to Logic: Argument and Evidence****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

Introduction to the techniques of critical thought, including language analysis, inductive and deductive logic, symbolic logic, and the development of the scientific method.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** PHIL 110**PHIL 105 3 Units****Introduction to Ethics****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an introduction to ethics focusing on the analysis of the basic ideas and principles underlying moral conduct. Theories such as utilitarianism, deontology, virtue ethics, and many others will form the basis of the course. Specific ethical problems arising in disciplines such as business, health care, administration of justice, and politics, as well as specific ethical problems confronting individuals, will also be addressed in this course.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** PHIL 120**PHIL 112 3 Units****Philosophy in Literature****Lecture:** 54 contact hours**Prerequisite:** ENGL 015 or eligibility for ENGL 101 as determined by SBVC assessment process.

This course addresses ethical and metaphysical themes as presented in literature from the classical to the modern period. Philosophical problems such as freedom and determinism, the nature of virtue, the meaning of death, and the individual's relationship to the state and the structure of reality are explored through the encounter with novels, plays, short stories, and film.

Associate Degree Applicable**Transfers to both UC/CSU****PHIL 180 3 Units****Death and Dying****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is a study of dying, death, and bereavement. Medical, ethical, legal, philosophical, and religious considerations will be explored. (This course is also offered as RELIG 180).

Associate Degree Applicable**Transfers to both UC/CSU****RELIG 100 3 Units****Introduction to Religious Studies****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an introductory study of religion, with emphasis on religious experience, the origins and function of religion, and the various modes of religious expression. Necessarily broad in scope, this course will draw on Eastern, Western, ancient, and modern religious phenomena to help students understand various religious components, such as myth, ritual, scripture, art, doctrine, and mysticism.

Associate Degree Applicable**Transfers to both UC/CSU****RELIG 100H 3 Units****Introduction to Religious Studies-Honors****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by SBVC assessment process.

This course is an introductory study of religion, with emphasis on religious experience, the origins and function of religion, and the various modes of religious expression. Necessarily broad in scope, this course will draw on Eastern, Western, ancient, and modern religious phenomena to help students understand various religious components, such as myth, ritual, scripture, art, doctrine, and mysticism. This course is intended for students in the Honors Program but is open to all students who desire more challenging coursework.

Associate Degree Applicable**Transfers to both UC/CSU**

RELIG 101 3 Units**Introduction to World Religions****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an introduction to the major religious traditions of the world with an emphasis on the beliefs, practices, and histories of Buddhism, Christianity, Confucianism, Hinduism, Islam, Judaism, and Taoism.

Associate Degree Applicable**Transfers to both UC/CSU****RELIG 110 3 Units****Magic, Witchcraft, and Religion****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is a comparative study of spiritual and religious practices, past and present, including magic, witchcraft, shamanism, and totemism. It entails study of syncretism, change, and the role of spiritual and religious practice in society. (This course is also offered as ANTHRO 110).

Associate Degree Applicable**Transfers to both UC/CSU****RELIG 135 3 Units****Religion in America****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an introduction to the diverse expression of religion in the United States. Although limited by the history and geography of one country, the course necessarily draws from religions around the globe to help students understand how religion has grown and developed in the U.S. So, this course deals with a wide variety of expressions of religion, including the Puritans, slave religion, the religious reform movements, the Catholic, Protestant, Jewish, and Muslim communities, the African American religious experience, Eastern religions in America, and contemporary syncretistic religious movements.

Associate Degree Applicable**Transfers to both UC/CSU****RELIG 150 3 Units****Introduction to Mythology****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an introduction to myth and its function in culture through an examination of creation stories, end-of-the world stories, hero stories, and trickster stories. Although focusing on the narrative expression of religion, this course necessarily draws from many traditions, including Native American, Greek, Roman, European, Islamic, Chinese, Hindu, and Japanese traditions of myth. In addition, this class will examine modern American myths.

Associate Degree Applicable**Transfers to both UC/CSU****RELIG 175 3 Units****The Literature and Religion of the Bible****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course covers The English Bible as literature and as religion including an examination of the types of literature found in the Bible, the historical and religious context in which the literature was developed and an extensive reading of the two testaments. This course is also offered as ENGL 175. RELIG 175 is the transferable equivalent of ENGL 075. A student taking RELIG 175 may not earn credit for ENGL 075.

Associate Degree Applicable**Transfers to both UC/CSU****RELIG 176 3 Units****Jesus and His Interpreters****Lecture:** 54 contact hours**Prerequisite:** ENGL 015 or eligible for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is a study of images and interpretations of Jesus with three principle divisions: Jesus and the gospels or biblical tradition; Jesus and the historians, including the quest of historians and theologians for the Jesus of history; and Jesus and the arts (Jesus in art, music, film, and the literary arts, such as novels, poems, and plays.)

Associate Degree Applicable**Transfers to both UC/CSU****RELIG 180 3 Units****Death and Dying****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is a study of dying, death, and bereavement. Medical, ethical, legal, philosophical, and religious considerations will be explored. (This course is also offered as PHIL 180).

Associate Degree Applicable**Transfers to both UC/CSU**

Philosophy Associate of Arts Transfer Degree

The Associate of Arts for Transfer (AA-T) in Philosophy provides students with invaluable skills transferable to most vocations through the Student Transfer Achievement Reform Act (SB 1440). The law states that students will have guaranteed admission to a California State University (CSU) campus upon successful completion of the specified program requirements. Whatever the vocational goal, students benefit from completing this AA-T in Philosophy. Nearly everyone is concerned with the kinds of questions and experiences studied in philosophy. This field of study is concerned with the nature of reality, truth and value, the human response to death and suffering, and those perennial human questions: Who am I? Why am I here? And where am I going. Philosophy courses require critical analysis, clarity, and understanding. These skills are achieved through careful and close reading of texts, images, and symbols as well as through descriptive and analytic writing. The AA-T in Philosophy requires the study of diverse and often competing belief systems. This is a challenging and exciting endeavor that can help us make sense of the events taking place in the world around us. Students should consult with a counselor to determine whether this degree is the best option for their transfer goals.

The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to a California State University (CSU) campus for

any community college student who completes an 'associate degree for transfer', a newly established variation of the associate degrees traditionally offered at a California community college. The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated 'high unit' major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system.

Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

To earn this AA-T degree, students must complete the following Associate Degree for Transfer requirements:

- completion of the following major requirements with grades of C or better;
- completion of a minimum of 60 CSU transferable semester units with a grade point average of at least 2.0; and
- certified completion of the CSU General Education-Breadth (CSU-GE) or Intersegmental General Education Transfer Curriculum (IGETC) for CSU, which requires a minimum of 39 units.

It is highly recommended that students complete courses that satisfy the U.S. History, Constitution, and American Ideals requirement as part of CSUGE or IGETC before transferring to a CSU. Students planning to transfer to a baccalaureate institution and major in Philosophy should consult with a counselor regarding the transfer process and lower division requirements.

Code	Title	Units
Required Core Courses		
PHIL 103	Introduction to Logic: Argument and Evidence	3
PHIL 101	Introduction to Philosophy	3
or PHIL 101H	Introduction to Philosophy - Honors	
List A - Select one of the following: (3 units minimum)		
PHIL 102	Critical Thinking and Writing	3
or PHIL 105	Introduction to Ethics	
List B - Select two of the following (any course not used from List A):		
ENGL 102	Intermediate Composition and Critical Thinking	4
or ENGL 102H	Intermediate Composition and Critical Thinking - Honors	
RELIG 101	Introduction to World Religions	3
List C - Select one of the following or any course not selected from List A or List B:		
PHIL 112	Philosophy in Literature	3
PHIL 180	Death and Dying	3
RELIG 100	Introduction to Religious Studies	3
or RELIG 100H	Introduction to Religious Studies-Honors	
RELIG 110	Magic, Witchcraft, and Religion	3
RELIG 135	Religion in America	3

RELIG 150	Introduction to Mythology	3
RELIG 175	The Literature and Religion of the Bible	3
RELIG 176	Jesus and His Interpreters	3
RELIG 180	Death and Dying	3

Code	Title	Units
Major Total		19
Total Units That May Be Double Counted		6-12
General Education (CSU-GE or IGETC) Units		39-42
Elective (CSU Transferable) Units		5-14
Total Units		60

See Section on Degree, Certificate, and Transfer Information for additional information on the Associate Degrees for Transfer.

To earn an SBVC Associate Degree for Transfer (AA-T or AS-T) students must complete one of the following general education patterns:

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Identify and analyze the structure of arguments, including recognizing conclusions, premises, and inference indicators by writing a response to that prompt
- Analyze and evaluate issues dealing with the tradition of philosophy, including but not limited to ethical, epistemological, and political philosophical issues, and/or the impact of Eastern traditions
- Apply the ideas and concepts in the tradition of philosophy to contemporary experience by writing a response to that prompt

Phlebotomy

The Phlebotomy Program is a one semester, non-credit certificate program that prepares students for entry-level employment as a phlebotomy technician. This certificate program will prepare students to work as a phlebotomy technician and to take the California State Phlebotomy licensing exam for CPT 1 certification. A background check may be required for clinical experience. The California Board of Phlebotomists may deny the Phlebotomy license based on convictions substantially related to Phlebotomy practice.

Contact Information

Division: Health and Life Sciences (HLS - 101)

Division Phone Number: (909) 384-8645

Faculty Chair: Lorrie Burnham (lburnham@sbccd.edu), M.S. and Tatiana Vasquez (%20tvasquez@sbccd.edu), M.S.

- Phlebotomy Certificate of Completion (p. 259)

PHLB 600 Noncredit**Phlebotomy I: Introduction****Lecture:** 20 contact hours**Lab:** 20 contact hours

Advisory: The California Department of Health Services requires that applicants for certification as a phlebotomist have a high school diploma or equivalent and the ability to obtain and process official documents in English. **LIMITATION ON ENROLLMENT:** Prior to beginning of clinical laboratory component requires evidence of current CPR certification and titers and medical clearance from healthcare provider to be on file in the department office.

This noncredit course provides theoretical and laboratory preparation for entry-level certification as a phlebotomy technician; includes overview of federal and state regulations governing clinical laboratories; focuses on vascular anatomy and physiology and performance of venipuncture and dermal puncture techniques, describes additional responsibilities of phlebotomy technicians as members of the health care team; requires demonstration of skill competency.

PHLB 601 Noncredit**Phlebotomy II: Clinical Practicum****Lab:** 64 contact hours**Prerequisite:** PHLB 600

In this noncredit course students will be placed in a clinical setting in order to complete a minimum of 60 hours of clinical training. Students will complete a minimum of 10 skin punctures and 50 venipunctures that fulfill all sampling requirements as set forth by the CA Department of Health. Students must complete a minimum of 60 hours of verified, supervised field experience and meet the required competencies through actual on-the-job performance in order to receive a certificate of completion. The student will practice skills learned in PHLB 600.

Phlebotomy Certificate of Completion

This one semester noncredit certificate in Phlebotomy is designed for students wishing to become Phlebotomy Technicians. This program prepares students to pass the national exam necessary to apply for the California CPT 1 license. In order for students to receive a certificate of completion, they must successfully complete PHLB 600 and PHLB 601.

Code	Title	Units
Required Courses		
PHLB 600	Phlebotomy I: Introduction	40
PHLB 601	Phlebotomy II: Clinical Practicum	60-64
Total Hours		100-104

Program Learning Outcome

The goals and objectives of the Phlebotomy Certificate program are to provide specialized training as phlebotomy technicians in accordance with the entry level competencies as a Certified Phlebotomy Technician 1 (CPT1).

Physics

Physics is a fundamental science. It is concerned with finding and using the rules that govern everything—from the smallest pieces of the atom to the various collections of atoms—molecules, balls, planets, stars, and more—that compose the myriad contents of the universe. Students majoring in physics will be rewarded on a personal level with a deep understanding of the world around us. On a professional level, physicists find a variety of

employment opportunities, which are relatively free of ethnic and gender bias, pay well, reward creativity, and are just plain fun.

Students planning to transfer to a four-year institution and major in physics should consult with a counselor regarding the transfer process and lower division requirements.

Contact Information

Division: Science (PS - 148)

Division Phone Number: (909) 384-8645

Faculty Chair: Anna Tolstova (%20atolstov@sbccd.edu), M.S.

-
- Physics Associate of Science Degree (p. 260)
 - Physics Associate of Science Transfer Degree (p. 261)

PHYSIC 101 4 Units**Introductory Physics****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** MATH 095 or MATH 096**Advisory:** ENGL 101 or ENGL 101H or READ 100

This is an introductory algebra based physics course. Emphasis is placed on developing an understanding of motion, forces, energy, momentum, waves, light, electricity, magnetism, and concepts of modern physics.

Associate Degree Applicable**Transfers to both UC/CSU****PHYSIC 151 4 Units****General Physics for the Life Sciences I****Lecture:** 54 contact hours**Lab:** 54 contact hours

Prerequisite: MATH 103 or eligibility for MATH 151 or higher as determined by SBVC assessment process and ENGL 101 or ENGL 101H or higher as determined by SBVC assessment process.

Advisory: PHYSIC 101

This is the first course in a two-semester physics sequence designed primarily for students in biology, pharmacology, pre-medicine, physical therapy, and allied health programs. Topics include mechanics, waves, fluids, and thermodynamics. The needed concepts of calculus will be developed and used where appropriate. (Formerly PHYSIC 150A)

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** PHYS 105/100S**PHYSIC 152 4 Units****General Physics for the Life Sciences II****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** PHYSIC 151

This is the second course in a two-semester physics sequence designed primarily for students in biology, pharmacology, pre-medicine, physical therapy, and allied health programs. Topics include electricity, magnetism, optics, and modern physics. The needed concepts of calculus will be developed and used where appropriate. (Formerly PHYSIC 150B)

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** PHYS 110/100S

PHYSIC 202 4 Units**Physics I****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H and MATH 250 and PHYSIC 101**Corequisite:** MATH 250. The department highly recommends completing MATH 250 prior to enrollment in PHYSIC 202.

This is a calculus based physics course covering mechanics and oscillations. This course is designed to satisfy the lower division physics requirement for majors in physics, engineering, astronomy, chemistry, geology, computer science and mathematics.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** PHYS 205/200S**PHYSIC 203 4 Units****Physics II****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite/Corequisite:** MATH 251**Prerequisite:** PHYSIC 202

This is a calculus based physics course covering electricity, magnetism, and waves. This course is designed to satisfy the lower division physics requirement for majors in physics, engineering, astronomy, chemistry, geology, computer science and mathematics.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** PHYS 210/200S**PHYSIC 204 4 Units****Physics III****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite/Corequisite:** MATH 251**Prerequisite:** PHYSIC 202**Advisory:** MATH 252

This is a calculus based physics course covering thermodynamics, fluids, optics, and modern physics. This course is designed to satisfy the lower division physics requirement for majors in physics, engineering, astronomy, chemistry, geology, computer science and mathematics.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** PHYS 215/200S**PHYSIC 210 4 Units****Modern Physics****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** PHYSIC 201 or PHYSIC 150B and MATH 251

This is a calculus-based physics course in modern physics. Topics include relativity, quantum mechanics, atoms, molecules, condensed matter, nuclear, and particle physics.

Associate Degree Applicable**Transfers to both UC/CSU****PHYSIC 222 1-3 Units****Independent Study in Physics****DIR:** 54 contact hours**Prerequisite:** PHYSIC 101**Advisory:** ENGL 101 or ENGL 101H

Students with previous course work in Physics may do assigned projects involving research and analysis of selected topics. The independent study is for students who are interested in furthering their knowledge of Physics. Prior to registration, a written contract must be prepared jointly by the instructor and the student.

Associate Degree Applicable**Transfers to CSU only**

Physics Associate of Science Degree

To graduate with a specialization in Physics, students must complete the following required courses plus the general breadth requirements for the Associate Degree (minimum total = 60 units).

Code	Title	Units
Required Courses		
PHYSIC 202	Physics I	4
PHYSIC 203	Physics II	4
PHYSIC 204	Physics III	4
PHYSIC 210	Modern Physics	4
MATH 250	Single Variable Calculus I	4
MATH 251	Single Variable Calculus II	4
MATH 252	Multivariable Calculus	5
Total Units		29

Code	Title	Units
Recommended Courses		
CHEM 150	General Chemistry I	5
CHEM 151	General Chemistry II	5

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Transfer to an accredited university as a junior with a major in physics or a physics-related major
- Integrate physical concepts and principles to other science disciplines
- Develop a world view that incorporates the role of physics in modern society
- Solve work-related problems by employing physical concepts to formulate and solve representative physical models
- Apply physical knowledge and skills required in securing and maintaining employment

- Demonstrate a proficiency in standard physics laboratory techniques commonly acquired in lower-division coursework

Physics Associate of Science Transfer Degree

The Associate of Science for Transfer (AS-T) in Physics provides students with a deep understanding of the world around them. This degree provides students with transfer preparation and pre-professional training. The AS-T in Physics explores with finding and using the rules that govern everything—from the smallest pieces of the atom to the various collections of atoms—molecules, balls, planets, stars, and more—that compose the myriad contents of the universe. Students should consult with a counselor to determine whether this degree is the best option for their transfer goals.

The Associate in Art for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated 'high unit' major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

To earn a Physics AS-T degree, students must complete the following Associate Degree for Transfer requirements:

- completion of the following major requirements with grades of C or better;
- completion of a minimum of 60 CSU transferable semester units with a grade point average of at least 2.0; and
- certified completion of the CSU General Education-Breadth (CSU-GE) or Intersegmental General Education Transfer Curriculum (IGETC) for CSU, which requires a minimum of 37-39 units.

It is highly recommended that students complete courses that satisfy the U.S. History, Constitution, and American Ideals requirement as part of CSUGE or IGETC before transferring to a CSU.

Students planning to transfer to a baccalaureate institution and major in Physics should consult with a counselor regarding the transfer process and lower division requirements.

Code	Title	Units
Required Core Courses		
MATH 250	Single Variable Calculus I	4
MATH 251	Single Variable Calculus II	4
MATH 252	Multivariable Calculus	5
PHYSIC 202	Physics I	4
PHYSIC 203	Physics II	4
PHYSIC 204	Physics III	4
Code	Title	Units
Major Total		25
Total Units That May Be Double Counted		7

General Education (CSU-GE or IGETC) Units	37-39
Elective (CSU Transferable) Units	0-5
Total Units	60

See Section on Degree, Certificate, and Transfer Information for additional information on the Associate Degrees for Transfer.

To earn an SBVC Associate Degree for Transfer (AA-T or AS-T) students must complete one of the following general education patterns:

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Transfer to an accredited university as a junior with a major in physics or a physics-related major
- Integrate physical concepts and principles to other science disciplines
- Develop a world view that incorporates the role of physics in modern society
- Solve work-related problems by employing physical concepts to formulate and solve representative physical models
- Apply physical knowledge and skills required in securing and maintaining employment
- Demonstrate a proficiency in standard physics laboratory techniques commonly acquired in lower-division coursework

Police Science

(also see Criminal Justice (p. 141))

One of modern government's most challenging tasks is the enforcement of laws and the protection of lives and property while respecting constitutional individual rights. Carefully selected, highly trained and motivated peace officers are central in this task. The Basic Law Enforcement Academy is presented in both an intensive and extended format for students interested in becoming peace officers.

The state screening requirements for admission into the Basic Law Enforcement Academy are: A person must have a physical examination, Department of Justice/Federal Bureau of Investigation fingerprint check and clearance, a valid California driver's license with no restrictions (one exception is corrective lenses), and never have been convicted of a felony. Police Science classes are certified by the California Commission on Peace Officer Standards and Training.

Contact Information

Division: Social Sciences, Human Development, and Physical Education (NH - 139)

Department Phone Number: (909) 384-4431

Program Director: Paul Dennis (pdennis@sbccd.edu), M.A.

- Basic Peace Officer Certificate of Achievement (p. 265)

POLICE 001 1.5 Units**Police Academy Preparation****Lecture:** 36 contact hours**Lab:** 8 contact hours

This course is designed to provide the student with the necessary information and guidance to meet the requirements for entry into and completion of the intensive or extended police academy. The course comprehensively covers personal leadership development skills as well as mental and physical preparation strategies fundamental to a successful police academy experience.

Associate Degree Applicable**POLICE 002 24.5 Units****Basic Law Enforcement Academy****Lecture:** 312 contact hours**Lab:** 392 contact hours

Corequisite: POLICE 100 and POLICE 101 and POLICE 102 and POLICE 103
Advisory: READ 015 or ENGL 015 or eligibility for ENGL 101 as determined by SBVC assessment process and MATH 952.I

Basic training for new law enforcement officers. This course covers but is not limited to leadership, professionalism and ethics, criminal justice system, juvenile law, patrol procedures, domestic violence, traffic enforcement, lifetime fitness, defensive tactics, first aid and CPR, and firearms. ENROLLMENT IS LIMITED TO THOSE STUDENTS WHO MEET STATE SCREENING REQUIREMENTS AS OUTLINED IN THE GOVERNMENT CODE, CALIFORNIA PENAL CODE AND THE COMMISSION ON PEACE OFFICER STANDARDS AND TRAINING ADMINISTRATIVE MANUAL.

Associate Degree Applicable**POLICE 050 0.5 Units****Bicycle Patrol****Lecture:** 8 contact hours**Lab:** 24 contact hours

Prerequisite: Completion of POLICE 002 and POLICE 100 and POLICE 101 and POLICE 102 and POLICE 103 (POST Regular Basic Course) or CRMJUS 059 and CRMJUS 060 and CRMJUS 061 (Modules I II and III).

This course is designed to give students basic knowledge of the use of the bicycle police patrol and to improve their bicycle riding skills. The course covers physical fitness, nutrition, bicycle-handling skills, range training with bicycle, bicycle maintenance and bicycle rides on and off road.

POLICE 051 1 Unit**Bicycle Patrol - Instructor****Lecture:** 16 contact hours**Lab:** 24 contact hours**Prerequisite:** POLICE 050

Students will learn how to apply the fundamentals of police bicycle patrol for the purpose of training other bicycle patrol officers. The course covers physical fitness, nutrition, bicycle maintenance, instructor development, facilitation skills, and bicycle handling skills.

POLICE 060 1.5 Units**Traffic Collision Investigation - Basic****Lecture:** 32 contact hours**Lab:** 8 contact hours

Prerequisite: Completion of POLICE 002 and POLICE 100 and POLICE 101 and POLICE 102 and POLICE 103 (POST Regular Basic Course) or CRMJUS 059 and CRMJUS 060 and CRMJUS 061 (Modules I II and III).

This course offers a practical application of how to use report forms and accident investigation terminology together with the study of vehicle code law, court decisions and other traffic related subject matter.

POLICE 061 1.5 Units**Traffic Collision Investigation - Intermediate****Lecture:** 32 contact hours**Lab:** 8 contact hours**Prerequisite:** POLICE 060

This course is designed for experienced traffic collision investigators. Emphasis is on the applications of mathematics and physics to collision analysis, skidmark analysis, scene documentation and evaluation.

POLICE 062 4 Units**Traffic Collision Investigation - Advanced****Lecture:** 72 contact hours**Lab:** 8 contact hours**Prerequisite:** POLICE 060

This course is designed for experienced traffic collision investigators. Emphasis is on the applications of basic mathematics and physics to collision analysis, scene documentation and evaluation.

POLICE 063 4 Units**Traffic Collision Investigation - Reconstruction****Lecture:** 72 contact hours**Lab:** 8 contact hours**Prerequisite:** POLICE 062

This course will investigate and describe various relationships in physics as they relate to traffic collision reconstruction. This course covers auto-pedestrian, bicycle collisions, articulated vehicles, reconstruction methodology, motion analysis, velocity reconstruction and step-by-step reconstruction process.

POLICE 064 1 Unit**Traffic Collision Investigation - Motor Vehicle Inspection****Lecture:** 16 contact hours**Lab:** 24 contact hours**Prerequisite:** POLICE 060

This course is designed to enhance the investigative techniques of a traffic collision investigation. It will show students how to conduct a complete inspection of a motor vehicle from bumper to bumper in order to determine if any of the vehicle systems caused or contributed to the outcome of the collision.

POLICE 065 1 Unit**Driving Under the Influence (DUI)****Lecture:** 24 contact hours**Lab:** 8 contact hours

Prerequisite: Completion of POLICE 002 and POLICE 100 and POLICE 101 and POLICE 102 and POLICE 103 (POST Regular Basic Course) or CRMJUS 059 and CRMJUS 060 and CRMJUS 061 (Modules I II and III).

This course is designed to provide a student with a better understanding of driving under the influence (DUI) laws. The student will receive information on DUI laws, report writing, courtroom testimony, field sobriety tests and alcohol correlation studies.

POLICE 070 0.5 Units**Firearms****Lecture:** 10 contact hours**Lab:** 14 contact hours

This course satisfies the Commission of Peace Officer Standards and Training (POST) firearms certification for PC 832. Additionally, this course exceeds the State of California firearms safe handling and use certification required from any person purchasing a firearm in California. ENROLLMENT IS LIMITED TO THOSE STUDENTS WHO MEET STATE SCREENING REQUIREMENTS AS OUTLINED IN THE GOVERNMENT CODE, CALIFORNIA PENAL CODE AND THE COMMISSION ON PEACE OFFICER STANDARDS AND TRAINING ADMINISTRATIVE MANUAL.

POLICE 071 1.5 Units**Arrest and Control****Lecture:** 30 contact hours**Lab:** 10 contact hours

This course provides the student with the knowledge and skills necessary to qualify for limited peace officer powers as required by Penal Code Section 832. The course will emphasize laws of arrest, search and seizure, evidence, and the investigative process. This course meets the curriculum standards of the California Board of Corrections and the California Commission on Peace Officers Standards and Training.

POLICE 072 1 Unit**Crisis Intervention and Negotiation****Lecture:** 24 contact hours

Prerequisite: Completion of POLICE 002 and POLICE 100 and POLICE 101 and POLICE 102 and POLICE 103 (POST Regular Basic Course) or CRMJUS 059 and CRMJUS 060 and CRMJUS 061 (Modules I II and III).

This course is designed to provide the student with a better understanding of crisis intervention and appropriate response. The student will receive information on the mental health systems, psychotic disorders, mood disorders, personality disorders, post-traumatic disorder, Alzheimer, and developmental disorders.

POLICE 073 2 Units**Child Abuse Investigation****Lab:** 40 contact hours

Prerequisite: Completion of POLICE 002 and POLICE 100 and POLICE 101 and POLICE 102 and POLICE 103 (POST Regular Basic Course) or CRMJUS 059 and CRMJUS 060 and CRMJUS 061 (Modules I II and III).

This course is designed to provide the student with an overview of the child abuse investigative process. It will focus on child abuse law, psychological factors of the offender, interviewing techniques and responsibilities of the child abuse investigator.

POLICE 074 1 Unit**Gang Awareness****Lecture:** 24 contact hours

Prerequisite: Completion of POLICE 002 and POLICE 100 and POLICE 101 and POLICE 102 and POLICE 103 (POST Regular Basic Course) or CRMJUS 059 and CRMJUS 060 and CRMJUS 061 (Modules I II and III).

This course is designed to provide the student with a better understanding of various gangs in the community. Topics will include: the history of gangs, gang dynamics, gang prosecution and officer safety considerations.

POLICE 075 5 Units**Special Weapons and Tactics (SWAT)****Lecture:** 80 contact hours**Lab:** 40 contact hours

Prerequisite: Completion of POLICE 002 and POLICE 100 and POLICE 101 and POLICE 102 and POLICE 103 (POST Regular Basic Course) or CRMJUS 059 and CRMJUS 060 and CRMJUS 061 (Modules I II and III).LIMITATION ON ENROLLMENT: Students must be selected by their respective law enforcement agency and pass Special Weapons and Tactics Team departmental qualifications prior to registration.

This course is designed for new members of special weapons and tactics teams. It will cover concepts of planning, tactical operations, approach, entry, and search techniques, as well as the use of chemical agents, and weapons. Limitation on Enrollment: Students must be selected by their respective law enforcement agency and pass Special Weapons and Tactics Team departmental qualifications prior to registration.

POLICE 076 3.5 Units**Homicide Investigation****Lecture:** 64 contact hours**Lab:** 16 contact hours

Prerequisite: Completion of POLICE 002 and POLICE 100 and POLICE 101 and POLICE 102 and POLICE 103 (POST Regular Basic Course) or CRMJUS 059 and CRMJUS 060 and CRMJUS 061 (Modules I II and III).

This advanced course will train investigators in the highly specialized field of homicide investigation. It will cover the legal aspects of death investigation, homicide crime scene procedures, autopsy, psychological profiling, criminal psychology, laboratory work, gunshots, asphyxia, drowning, burning, cutting, stabbing, and interviewing techniques.

POLICE 077 3.5 Units**Crime Scene Investigation****Lecture:** 64 contact hours**Lab:** 16 contact hours

This course reviews principles of evidence collection. Course topics will include crime scene examination, recording, gathering trace evidence, collecting and packaging of biological evidence and the use of camera in crime scene investigation. Limitation on Enrollment: Students must be employed in a sworn or civilian position with a law enforcement agency performing duties related to crime scene investigation or be employed as a law enforcement officer.

POLICE 078 1.5 Units**Crime Scene and Forensic Photography****Lecture:** 24 contact hours**Lab:** 16 contact hours

Prerequisite: Completion of POLICE 002 and POLICE 100 and POLICE 101 and POLICE 102 and POLICE 103 (POST Regular Basic Course) or CRMJUS 059 and CRMJUS 060 and CRMJUS 061 (Modules I II and III).LIMITATION ON ENROLLMENT: Students must be employed in a sworn or civilian position with a law enforcement agency performing duties related to crime scene investigation or be employed as a law enforcement officer.

This course provides students with an introduction to forensic photography of crime scene investigation. It examines the methods utilized in crime scene forensic photography including daylight/nighttime photography, impression photography, close-up photography, and video photography.

POLICE 079 1.5 Units**Blood Stain Pattern Analysis****Lecture:** 24 contact hours**Lab:** 16 contact hours

This course provides a basic and fundamental knowledge in the field of bloodstain pattern interpretation and illustrates the scientific principles and practical application of bloods stain patterns. Limitation on Enrollment: Students must be employed in a sworn or civilian position with a law enforcement agency performing duties related to crime scene investigation or be employed as a law enforcement officer.

POLICE 090 1.5 Units**Field Training Officer****Lecture:** 32 contact hours**Lab:** 8 contact hours

Prerequisite: Completion of POLICE 002 and POLICE 100 and POLICE 101 and POLICE 102 and POLICE 103 (POST Regular Basic Course) or CRMJUS 059 and CRMJUS 060 and CRMJUS 061 (Modules I II and III).

This course is designed to provide the student with an understanding of the purpose of the field-training program. This course will focus on the fundamentals of basic training in patrol concepts and procedures.

POLICE 091 1 Unit**Field Training Officer - Update****Lecture:** 18 contact hours**Lab:** 8 contact hours**Prerequisite:** POLICE 090

This course is designed to provide current Field Training Officers with an update on the fundamentals of basic training in patrol concepts and procedures. Students will be updated on the current practices of evaluations, legal aspects, vehicle pursuits, weapons, building searches, prisoner restraints, and the use of force.

POLICE 092 4 Units**Police Supervision****Lecture:** 80 contact hours

Prerequisite: Completion of POLICE 002 and POLICE 100 and POLICE 101 and POLICE 102 and POLICE 103 (POST Regular Basic Course) or CRMJUS 059 and CRMJUS 060 and CRMJUS 061 (Modules I II and III).

This course covers police supervision techniques including problems of leadership and responsibilities, performance evaluation, instructional and disciplinary methods, motivation, and psychological aspects of supervision. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE SUCCESSFULLY COMPLETED PROGRAM PREREQUISITES.

POLICE 093 2 Units**Civilian Supervision****Lecture:** 40 contact hours

In this course, students will learn supervisory techniques of non-sworn law enforcement employees including clerical, maintenance, janitorial and auto mechanics. The class includes problems of leadership and responsibilities, performance evaluation, instructional and disciplinary methods, motivation, and psychological aspects of supervision. Limitation on Enrollment: Students must be employed in a civilian position with a law enforcement agency performing duties of a first-line supervisor or be selected by their respective law enforcement agency.

POLICE 094 1.5 Units**Academy Instructor Certificate Program (AICC)****Lecture:** 25 contact hours**Lab:** 15 contact hours

Prerequisite: Completion of POLICE 002 and POLICE 100 and POLICE 101 and POLICE 102 and POLICE 103 (POST Regular Basic Course) or CRMJUS 059 and CRMJUS 060 and CRMJUS 061 (Modules I II and III).

This course is designed to provide instruction for Peace Officer Standards and Training (POST) academy instructors in adult learning principles including instructional planning skills, presentation and facilitation techniques.

POLICE 095 1 Unit**Force Option Simulator Instructor****Lecture:** 10 contact hours**Lab:** 30 contact hours

Prerequisite: Completion of POLICE 002 and POLICE 100 and POLICE 101 and POLICE 102 and POLICE 103 (POST Regular Basic Course) or CRMJUS 059 and CRMJUS 060 and CRMJUS 061 (Modules I II and III).

This course is designed as a "train the trainer" class and meets all requirements for Peace Officer Standards and Training (POST) force options simulator instructor certification. This class will provide the trainer with an in-depth understanding of scenario-based training, increase their knowledge of federal and state laws governing use of force, and increase their knowledge of case laws and department policies regarding use of force.

POLICE 096 1 Unit**Firearms Instructor Course****Lecture:** 10 contact hours**Lab:** 30 contact hours

Prerequisite: Completion of POLICE 002 and POLICE 100 and POLICE 101 and POLICE 102 and POLICE 103 (POST Regular Basic Course) or CRMJUS 059 and CRMJUS 060 and CRMJUS 061 (Modules I II and III).

This course is designed to prepare the student with the fundamentals of teaching law enforcement firearms techniques to others and to create and administer a safe and quality firearms training program. Part of the training includes various shooting styles, updates, and instruction on the most effective contemporary techniques used in law enforcement today. How to diagnose shooting problems through target analysis, and how to properly correct the problems will be covered as well.

POLICE 100 3 Units**Criminal Law****Lecture:** 54 contact hours**Corequisite:** POLICE 002 POLICE 101 POLICE 102 and POLICE 103.]

Advisory: READ 015 and ENGL 015 or eligibility for ENGL 101 as determined by SBVC assessment process and MATH 952.

This course analyses property crimes, crimes against persons, crimes against children, child abuse reporting, sex crimes, crimes against the judicial system, weapons violations, relevant laws and court decisions and crimes against the public peace. This course will focus on the relationship between criminal law and the criminal justice system. Classification of crimes and their application to the criminal justice system will also be covered in the course. THIS COURSE IS LIMITED TO STUDENTS WHO HAVE SUCCESSFULLY MET STATE SCREENING REQUIREMENTS: POSSESSION OF A CALIFORNIA DRIVER'S LICENSE WITHOUT RESTRICTIONS, OTHER THAN REQUIRED EYEGLASSES OR CONTACT LENSES AND POSSESSION OF A CURRENT LETTER OF CLEARANCE ISSUED BY THE CALIFORNIA DEPARTMENT OF JUSTICE THAT CERTIFIES THE RIGHT TO BE IN POSSESSION OF A FIREARM.

Associate Degree Applicable**Transfers to CSU only****POLICE 101 3 Units****Procedure and Evidence****Lecture:** 54 contact hours**Corequisite:** POLICE 002 and POLICE 100 and POLICE 102 and POLICE 103]

Advisory: READ 015 and ENGL 015 or eligibility for ENGL 101 as determined by SBVC assessment process and MATH 952.

This course will address a peace officer's authority, liability and responsibility to make a lawful arrest, and current search and seizure laws. It includes the origin, development, philosophy, and constitutional basis of evidence; rules and procedures governing admissibility and judicial decisions interpreting individual rights. ENROLLMENT IS LIMITED TO THOSE STUDENTS WHO MEET THE SCREENING REQUIREMENTS AS OUTLINED IN THE GOVERNMENT CODE, CALIFORNIA PENAL CODE AND THE COMMISSION ON PEACE OFFICER STANDARDS AND TRAINING ADMINISTRATIVE MANUAL.

Associate Degree Applicable**Transfers to CSU only**

POLICE 102 3 Units

Community Policing

Lecture: 54 contact hours

Corequisite: POLICE 002 and POLICE 100 and POLICE 101 and POLICE 103
Advisory: READ 015 and ENGL 015 or eligibility for ENGL 101 as determined by SBVC assessment process and MATH 952.

This course addresses the origin, concepts and philosophy of community policing, and victim awareness and the development of positive relationships with the public. It includes cultural diversity and discrimination. ENROLLMENT IS LIMITED TO THOSE STUDENTS WHO MEET THE SCREENING REQUIREMENTS AS OUTLINED IN THE GOVERNMENT CODE, CALIFORNIA PENAL CODE AND THE COMMISSION ON PEACE OFFICER STANDARDS AND TRAINING ADMINISTRATIVE MANUAL.

Associate Degree Applicable

Transfers to CSU only

POLICE 103 3 Units

Introduction to Criminal Investigation

Lecture: 54 contact hours

Corequisite: POLICE 002 and POLICE 100 and POLICE 101 and POLICE 102.
Advisory: READ 015 and ENGL 015 or eligibility for ENGL 101 as determined by SBVC assessment process and MATH 952.

This course will address the examination of crime, evidence and police procedures in investigating crime. This includes documenting, recording and preserving evidence found at crime scenes. ENROLLMENT IS LIMITED TO THOSE STUDENTS WHO MEET SCREENING REQUIREMENTS AS OUTLINED IN THE GOVERNMENT CODE, CALIFORNIA PENAL CODE AND THE COMMISSION ON PEACE OFFICER STANDARDS AND TRAINING ADMINISTRATIVE MANUAL.

Associate Degree Applicable

Transfers to CSU only

Basic Peace Officer Certificate of Achievement

This certificate is designed for state certified entry-level positions in law enforcement agencies. Successful completion of this program and subsequent completion of the hiring agencies probationary period in a Peace Officers' Standards and Training (POST) certified agency qualifies the student for a California POST certificate. This program meets Penal Code §832 requirement of training as a peace officer in the state of California. This program is offered in two formats: The Intensive Format (approximately 23 weeks) and the Extended Format (approximately 52 weeks).

Code	Title	Units
Required Courses		
POLICE 002	Basic Law Enforcement Academy	24.5
POLICE 100	Criminal Law	3
POLICE 101	Procedure and Evidence	3
POLICE 102	Community Policing	3
POLICE 103	Introduction to Criminal Investigation	3
Total Units		36.5

Code	Title	Units
Recommended Course		
POLICE 001	Police Academy Preparation	1.5

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Apply to any law enforcement agency in the State of California as a peace officer
- Apply knowledge and skills required in completing a Field Training Program (FTO)
- Apply understanding and skills essential in patrol procedures, firearms, administration of justice, defensive tactics, physical training, First Aid, cardiopulmonary resuscitation, traffic investigation, water safety, and driver training
- Recognize the importance of community policing, cultural diversity, victim awareness, and the development of positive community relationships
- Identify and understand key crime prevention techniques; and to accurately read and recognize circumstances under which search and seizures can be conducted
- Analyze the relationships between law enforcement, corrections, and courts
- Understand criminal law and the criminal justice system; and the origin, philosophy, concepts, and procedure of evidence; the judicial decisions and theories, degrees of evidence, individual rights, and case studies
- Chose to further their education by completing the requirements for an Administration of Justice degree

Political Science

The Political Science Department offers courses satisfying general education requirements for an Associate Degree and transfer requirements for the majors offered at colleges and universities. Our department offers courses to meet the California State University graduation requirement of U.S. Constitution and California State and local government, and may be certified for CSU GE-Breadth (POLIT 100). We also offer courses that provide service-learning opportunities for students seeking development of leadership skills through involvement in on-and off-campus community service (POLIT 138, POLIT 138H, POLIT 139, and POLIT 139H). For students interested in global affairs, we offer Comparative Politics (POLIT 140) and World Politics (POLIT 141 and POLIT 141H). We offer POLIT 110 and POLIT 110H for students interested in the development of Western political thought and philosophy.

A major in Political Science provides useful preparation for students interested in careers in politics, government (including the foreign service, the military and intelligence); teaching; public administration; public relations; law enforcement; the legal professions, and related fields. Students planning to transfer to a four-year institution and major in political science should consult with a counselor regarding the transfer process and lower-division requirements.

Contact Information

Division: Social Science, Human Development, and Physical Education (NH - 345)

Division Phone Number: (909) 384-8603

Faculty Chair: Riase Jakpor (rjakpor@sbccd.edu), Ph.D.

- Political Science Associate of Arts Transfer Degree (p. 267)

POLIT 100 3 Units**American Politics****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 as determined by SBVC assessment process and READ 015.

This course is a basic introduction to American politics that is designed to meet requirements in United States and California constitution and government with primary emphasis on the American national government. Topics covered include the political philosophy of democracy and constitutionalism; the specific provisions of the United States Constitution and Bill of Rights; the operations of national political institutions including Congress, the President, and the Supreme Court; the role of political parties; and an overview of California government and politics.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** POLS 110**POLIT 110 3 Units****Introduction to Political Theory****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is a survey of Western political thought from classical times to the contemporary period. The course explores such controversial topics as the nature of justice, the morality of political deception and violence, the proper limits of governmental power, the virtues (and challenges) of political diversity, and the future of the bourgeois state in an era of globalization.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** POLS 120**POLIT 110H 3 Units****Introduction to Political Theory - Honors****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is a survey of Western political thought from classical times to the contemporary period. The course utilizes selected primary texts to explore such controversial topics as the nature of justice, the morality of political deception and violence, the proper limits of governmental power, the virtues (and challenges) of political diversity, and the future of the bourgeois state in an era of globalization. This course is intended for students in the Honors Program but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** POLS 120**POLIT 138 3 Units****Service Learning: Student Leadership****Lecture:** 18 contact hours**Lab:** 108 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is a service-learning course designed for the development of leadership skills through participation in student government or other campus activities. The topics covered include community college governance, collaborative problem solving, student issues, methods of effective advocacy, parliamentary procedures, relevant laws, and the challenges and opportunities of social diversity.

Associate Degree Applicable**Transfers to CSU only****POLIT 138H 3 Units****Service Learning: Student Leadership - Honors****Lecture:** 18 contact hours**Lab:** 108 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is a service-learning course designed for the development of leadership skills through participation in student government or other campus activities. The topics covered include community college governance, collaborative problem solving, student issues, methods of effective advocacy, parliamentary procedures, relevant laws, and the challenges and opportunities of social diversity. This course is intended for students in the Honors Program but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to CSU only****POLIT 139 3 Units****Service Learning: Community Leadership****Lecture:** 18 contact hours**Lab:** 108 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is a service-learning course designed for the development of leadership skills through participation in community affairs on the federal, state, and local levels. The topics covered include street-level politics, coalition-building, direct and indirect lobbying, mass media communications, multicultural relations, legal requirements, and other aspects of civic involvement.

Associate Degree Applicable**Transfers to both UC/CSU****POLIT 139H 3 Units****Service Learning: Community Leadership - Honors****Lecture:** 18 contact hours**Lab:** 108 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is a service-learning course designed for the development of leadership skills through participation in community affairs on the federal, state, and local levels. The topics covered include street-level politics, coalition-building, direct and indirect lobbying, mass media communications, multicultural relations, legal requirements, and other aspects of civic involvement. This course is intended for students in the Honors Program but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU**

POLIT 140 3 Units**Introduction to Comparative Politics****Lecture:** 54 contact hours**Advisory:** READ 100 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process

This introductory course compares different political systems to evaluate their similarities and dissimilarities with respect to their corresponding political institutions and processes. Themes covered include presidential versus parliamentary democratic governance; authoritarian versus democratic regimes; patterns of state involvement in the political economy; society and citizen participation through interest groups, political parties and elections.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** POLS 130**POLIT 141 3 Units****Introduction to World Politics****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This introductory course in world politics (international relations) surveys the principal actors, issues and processes involved in international relations. It includes paradigms and approaches in the study of world politics; foreign policy; issues of war and peace; international organizations; international law; globalization; international political economy, including global financial and trade institutions; human rights; and the global environment with respect to sustainable development.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** POLS 140**POLIT 141H 3 Units****Introduction to World Politics - Honors****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This introductory course in world politics (international relations) surveys the principal actors, issues and processes involved in international relations. It includes paradigms and approaches in the study of world politics; foreign policy; issues of war and peace; international organizations; international law; globalization; international political economy, including global financial and trade institutions; human rights; and the global environment with respect to sustainable development. This course is intended for students in the Honors Program but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** POLS 140**POLIT 222 1-3 Units****Independent Study in Political Science****DIR:** 162 contact hours

Students with previous course work in Political Science may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of Political Science and related fields. Student work may include but not be limited to readings, research, projects, intern assignments and conferences. Prior to registration, a contract must be prepared jointly by the instructor and the student.

Associate Degree Applicable**Transfers to CSU only**

Political Science Associate of Arts Transfer Degree

Political Science is the academic discipline that investigates the institutions and processes by which human societies are ruled. Political scientists use the techniques of empirical research and historical analysis, along with normative consideration of the ends of political action, to explore the outcomes of various governmental arrangements and alternatives. The study of political science will prepare students for careers in law, politics, governmental service, social science teaching, and journalism, as well as for active participation in the political system of the United States.

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

To earn a Political Science AA-T degree, students must meet the following requirements:

- completion of the following major requirements with grades of C or better;
- completion of a minimum of 60 CSU transferable semester units with a grade point average of at least 2.0; and
- certified completion of the CSU General Education-Breadth (CSU-GE) or Intersegmental General Education Transfer Curriculum (IGETC) for CSU, which requires a minimum of 37-39 units.

It is highly recommended that students complete courses that satisfy the U.S. History, Constitution, and American Ideals requirement as part of CSU-GE or IGETC before transferring to a CSU.

Students planning to transfer to a four-year institution and major in political science should consult with a counselor regarding the transfer process and lower division requirements.

Code	Title	Units
Required Core Courses		
POLIT 100	American Politics	3
List A - Select three of the following:		
POLIT 141	Introduction to World Politics	3
	or POLIT 141H Introduction to World Politics - Honors	
POLIT 110	Introduction to Political Theory	3
	or POLIT 110H Introduction to Political Theory - Honors	
POLIT 140	Introduction to Comparative Politics	3
ECON 208	Business and Economic Statistics	4
	or MATH 108 Introduction to Probability and Statistics	
	or PSYCH 105 Statistics for the Behavioral Sciences	
List B - Select two of the following:		
ANTHRO 102	Cultural Anthropology	3
	or ANTHRO 102H Cultural Anthropology - Honors	
COMMST 135	Mass Media and Society	3
ECON 100	Introduction to Economics	3
ECON 200	Principles of Macroeconomics	3
	or ECON 200H Principles of Macroeconomics - Honors	
ECON 201	Principles of Microeconomics	3

	or ECON 201H Principles of Microeconomics - Honors	
HIST 100	United States History to 1877	3
	or HIST 100H United States History to 1877 - Honors	
HIST 101	United States History: 1865 to Present	3
	or HIST 101H United States History: 1865 to Present - Honors	
HIST 137	Racial and Ethnic Groups in United States History	3
HIST 150	Introduction to Latin American History	3
HIST 170	World History to 1500	3
HIST 171	World History Since 1500	3
POLIT 138	Service Learning: Student Leadership	3
	or POLIT 138H Service Learning: Student Leadership - Honors	
POLIT 139	Service Learning: Community Leadership	3
	or POLIT 139H Service Learning: Community Leadership - Honors	
PSYCH 100	General Psychology	3
	or PSYCH 100H General Psychology - Honors	
RELIG 135	Religion in America	3
SOC 100	Introduction to Sociology	3
	or SOC 100H Introduction to Sociology - Honors	

Code	Title	Units
Major Total		18-19
Total Units That May Be Double Counted		12
General Education (CSU-GE or IGETC) Units		37-39
Elective (CSU Transferable) Units		14-17
Total Units		60

See Section on Degree, Certificate, and Transfer Information for additional information on the Associate Degrees for Transfer.

To earn an SBVC Associate Degree for Transfer (AA-T or AS-T) students must complete one of the following general education patterns:

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate a comprehensive understanding of the domestic governmental institutions and political practices of the United States – at the national, state, and local levels – including their Constitutional bases; the special functions of the legislative, executive, and judicial branches and their associated bureaucratic and regulatory agencies; and the activities of leading participants in the political process including organized special interest groups, political parties, and grass-roots activists
- Demonstrate a keen awareness of the world beyond our national borders and know the principal players in world politics—state actors (countries) and non-state actors such as international governmental organizations (IGOs) and international non-governmental organizations (INGOs), and their respective role in creating world order; employ the principle of levels of analysis to explain a major development in world politics such as the outbreak of war or a complex foreign policy decision; understand the principal parameters around which to compare different political

systems; have an understanding of how different historical and cultural forces end up creating different regimes—authoritarian regimes or democratic regimes; and have a general knowledge of the fundamental components of political economy—public goods, taxation, regulations, trade policies, employment, and money supply

- Demonstrate an understanding of the practical skills needed for employment, or other participation, in governmental and political contexts

Psychiatric Technology

This degree program is designed to prepare students to become Psychiatric Technicians who provide quality care to assist patients in attaining their maximum level of wellness. Graduates are eligible to take the state licensing examination. The program is accredited by:

California State Board of Vocational Nurses and Psychiatric Technicians
2535 Capitol Oaks Drive
Suite 205
Sacramento, CA 95833.

Students are admitted in the Fall and Spring semesters. Students must complete program prerequisites, support courses, required courses, and apply and be accepted to the program. To enroll in the program, students must pass a Livescan background check and meet the health requirements. California law allows for denial of the PT license based on any conviction or legal action related to PT practice. For further information: http://www.bvnpt.ca.gov/licensees/fingerprint_faqs.shtml (http://www.bvnpt.ca.gov/licensees/fingerprint_faqs.shtml)

Contact Information

Division: Health and Life Sciences (HLS - 101)

Division Phone Number: (909) 384-8645

Faculty Chair: Maria Valdez (mvaldez@sbccd.edu), M.S.N.

Prerequisites for the Psychiatric Technology Program

1. High school completion (official transcript or Diploma or G.E.D., AA Degree, BS Degree, or foreign graduate that has been evaluated by AERC (American Educational Research Corporation), or IERF (International Education Research Foundation), or World Education Services.
2. Reading Proficiency: complete READ 015 with a grade of C or higher, or eligibility for READ 100 or higher as determined by assessment test, or previous college degree.
3. Mathematics Proficiency: complete MATH 095, MATH 096, or higher with a grade of C or higher or eligibility for MATH 102 or higher as determined by SBVC assessment process, or previous college degree.
4. Complete the following courses with a grade of C or higher:

Code	Title	Units
BIOL 155	Introductory Anatomy and Physiology	4
ENGL 101	Freshman Composition	4
	or ENGL 101H Freshman Composition-Honors	
PSYCH 100	General Psychology	3
	or PSYCH 100H General Psychology - Honors	

- Students have an option to enroll in PSYCH 110, PSYCH 111 or PSYCH 112 if PSYCH 100 or PSYCH 100H was completed more than 5 years ago.
- BIOL 155 and PSYCH 100 must be completed within 5 years of starting the program. Foreign transcripts must be evaluated for equivalency by an approved agency. See program Director/Department Chair.

Application to the Psychiatric Technician

Applications to the Psychiatric Technician program may only be submitted when all program prerequisites have been completed. Applications must be received or postmarked by February 1 for entry in the Fall semester or by September 1 for entry in the Spring semester. Incomplete applications will not be accepted. Late applications will only be considered if space is available. Submit the following to the Health Science Division Office, HLS 101:

- Application form - available in the Health Science Division or on-line.
- Official college transcripts from all colleges or universities attended except for SBVC or Crafton Hills College. Transcripts must be issued within the last 6 months and document that the program prerequisites have been completed. If transcripts are from a foreign country, they must be evaluated for equivalency - see Admission Clerk.
- High School completion document.

Acceptance Procedure

Effective Fall 2019 the Psychiatric Technology Program will select students through a point system. All prerequisites must be completed prior to applying, no exceptions. Once the application period has closed, the acceptance committee will review all completed applications. Students ranked with the highest points will then be selected for entry. Applicants will be notified via Canvas of their application status.

- Psychiatric Technology Associate of Science Degree (p. 269)
- Psychiatric Technology Certificate of Achievement (p. 270)

PSYTCH 084 17 Units

Introduction to Psychiatric Technology

Lecture: 180 contact hours

Lab: 378 contact hours

This course is an introduction to psychiatric technology emphasizing basic therapeutic communication, pharmacology, growth and development, developmental disabilities, behavior modification, nutrition, and nursing care, including application of basic nursing skills to the care of clients with developmental disabilities. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE PSYCHIATRIC TECHNOLOGY PROGRAM.

Associate Degree Applicable

PSYTCH 085 12 Units

Psychiatric Technology: Nursing Science

Lecture: 126 contact hours

Lab: 270 contact hours

Prerequisite: PSYTCH 084

This course is the study of basic nursing science concepts and skills with emphasis on nursing care for pediatric, adult and geriatric clients with medical and surgical disorders. Application of theory to the care of physically ill clients in acute and long-term care agencies. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED THE PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE PSYCHIATRIC TECHNOLOGY PROGRAM.

Associate Degree Applicable

PSYTCH 086 17 Units

Introduction to Psychiatric Technology: Behavioral Science

Lecture: 180 contact hours

Lab: 378 contact hours

Prerequisite: PSYTCH 084

This course is a study of psychiatric mental disorders with emphasis on causes, clinical manifestations, diagnosis, interventions and treatments. Included is the application of mental health theory to the basic nursing care of clients in acute, long-term care, and state mental health institutional settings. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE PSYCHIATRIC TECHNOLOGY PROGRAM.

Associate Degree Applicable

PSYTCH 601 Noncredit

Psychiatric Technology Licensure Exam Preparation

Lecture: 18 contact hours

This noncredit course prepares students that have completed or are nearing completion of the psychiatric technology program for the state administered licensing examination for psychiatric technicians. This course is also recommended for students who desire refresher training. Topics include, but are not limited to, nursing science – theory and techniques, basic nursing, developmental disabilities, medications, psychiatric mental health nursing. Also included are some basic test-taking techniques to increase proficiency on the state exam.

Psychiatric Technology Associate of Science Degree

This degree program is designed to prepare students to become Psychiatric Technicians who provide quality care and assist patients in attaining their maximum level of wellness. Graduates are eligible to take the state licensing examination. The program is accredited by the California State Board of Vocational Nurses and Psychiatric Technicians, 2535 Capitol Oaks Drive, Suite 205, Sacramento, CA 95833.

To graduate with a specialization in Psychiatric Technology, students must complete the following required courses plus the general breadth requirements for the Associate Degree (not included for entry into the Psychiatric Technology Program). This will exceed the minimum total of 60 applicable units. All Psychiatric Technology courses (PSYTCH 084, PSYTCH 085 and PSYTCH 086) must be completed within a 5 year period.

Code	Title	Units
General Education Requirements		
Biology (4-8 units)		
BIOL 155	Introductory Anatomy and Physiology	4

BIOL 250 & BIOL 251	Human Anatomy and Physiology I and Human Anatomy and Physiology II	8
BIOL 260 & BIOL 261	Human Anatomy and Human Physiology	8
English		
ENGL 101 or ENGL 101H	Freshman Composition Freshman Composition-Honors	4
Mathematics ¹		
MATH 095 or MATH 096	Intermediate Algebra Elementary and Intermediate Algebra	4-5
Psychology		
PSYCH 100 or PSYCH 100H	General Psychology General Psychology - Honors	3
Required Courses		
PSYTCH 084	Introduction to Psychiatric Technology	17
PSYTCH 085	Psychiatric Technology: Nursing Science	12
PSYTCH 086	Introduction to Psychiatric Technology: Behavioral Science	17
Total Units		61-66

¹ or Completion of a Higher Level Math

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Pass an online simulated Psychiatric Technology State Board Certification examination (BVNPT)
- Pass the Psychiatric Technology State Board Certification examination (BVNPT)

Psychiatric Technology Certificate of Achievement

This certificate is designed to prepare students for employment as a Psychiatric Technician, providing care and participating in the treatment of mentally and developmentally disabled clients. Learning activities are conducted on the college campus and a variety of community agencies.

The curriculum prepares students to take the California Psychiatric Technician license examination. The Psychiatric Technology program is accredited by the California Board of Vocational Nursing and Psychiatric Technicians.

Students must complete program prerequisites, apply and be accepted into the Psychiatric Technology program. To enroll in the program, students must pass a background check and meet health requirements. The California Board of Vocational Nursing and Psychiatric Technicians may

deny a license based on any conviction or action substantially related to Psychiatric Technician practice.

Code	Title	Units
General Education Requirements		
Biology (4-8 units)		
BIOL 155	Introductory Anatomy and Physiology	4
BIOL 250 & BIOL 251	Human Anatomy and Physiology I and Human Anatomy and Physiology II	8
BIOL 260 & BIOL 261	Human Anatomy and Human Physiology	8
English		
ENGL 101 or ENGL 101H	Freshman Composition Freshman Composition-Honors	4
Mathematics ¹		
MATH 095 or MATH 096	Intermediate Algebra Elementary and Intermediate Algebra	4-5
Psychology		
PSYCH 100 or PSYCH 100H	General Psychology General Psychology - Honors	3
Required Courses		
PSYTCH 084	Introduction to Psychiatric Technology	17
PSYTCH 085	Psychiatric Technology: Nursing Science	12
PSYTCH 086	Introduction to Psychiatric Technology: Behavioral Science	17
Total Units		57-66

¹ or Eligibility for MATH 102

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Pass an online simulated Psychiatric Technology State Board Certification examination (BVNPT)
- Pass the Psychiatric Technology State Board Certification examination (BVNPT)

Psychology

Psychology is both a natural and a social science concerned with the study of human behavior, thoughts, and emotions. As such, it is a broad discipline, which involves both pure science and practical application of science to matters of daily living. Students planning to transfer to a four-year institution and major in psychology should consult with a counselor regarding the transfer process and lower division requirements.

Contact Information

Division: Social Sciences, Human Development, and Physical Education (NH - 345)

Division Phone Number: (909) 384-8603

Faculty Chair: Sandra Moore (smoore@sbccd.edu), Ph.D

Department Website (<https://www.valleycollege.edu/academic-career-programs/degrees-certificates/psychology/>)

- Psychology Associate of Arts Transfer Degree (p. 272)

PSYCH 100 3 Units

General Psychology

Lecture: 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course surveys the nature and scope of psychology as a science. The content focuses on the exploration of psychological theories, concepts, methods, and research findings in psychology. Topics include psychology research design, biological bases of behavior, perception, consciousness, cognition, learning, development, memory, personality, psychological disorders and therapeutic approaches, emotion, motivation, social psychology, and applied psychology.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: PSY 110

PSYCH 100H 3 Units

General Psychology - Honors

Lecture: 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process and ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course surveys the nature and scope of psychology as a science. The content focuses on the exploration of psychological theories, concepts, methods, and research findings in psychology. Topics include psychology research design, biological bases of behavior, perception, consciousness, cognition, learning, development, memory, personality, psychological disorders and therapeutic approaches, emotion, motivation, social psychology, and applied psychology. This course is intended for students in the Honors Program but is open to all students who desire more challenging course work.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: PSY 110

PSYCH 102 3 Units

Personal and Social Adjustment

Lecture: 54 contact hours

Prerequisite: PSYCH 100 or PSYCH 100H

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course provides students with an applied focus on how psychology is used in everyday life and is related to other social sciences. This course examines a variety of psychological and theoretical perspectives and how these ideas are applied across a person's life taking into account the influence of factors such as culture, gender, ethnicity, historical cohort, and socio-economic status. A broad understanding of how scientists, clinicians, and practitioners study and apply psychology is emphasized.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: PSY 115

PSYCH 105 4 Units

Statistics for the Behavioral Sciences

Lecture: 72 contact hours

Prerequisite: MATH 095 or MATH 096

Advisory: PSYCH 100 or PSYCH 100H

This class focuses on statistics as applied to the social sciences and includes such topics as measurement, frequency distributions, measures of central tendency, measures of variability, the normal distribution curve, correlation, sampling, statistical inference, hypothesis testing and an introduction to analysis of variance.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: MATH 110/SOC125

PSYCH 110 3 Units

Abnormal Psychology

Lecture: 54 contact hours

Prerequisite: PSYCH 100 or PSYCH 100H

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an integrative survey of theory and research in abnormal behavior. The scientific study of psychopathology and atypical behaviors is explored. Abnormal behavior is investigated from a variety of perspectives including biological, psychological, and sociocultural approaches. Intervention and prevention strategies for psychological disorders are also introduced.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: PSY 120

PSYCH 111 3 Units

Developmental Psychology: Lifespan

Lecture: 54 contact hours

Prerequisite: PSYCH 100 or PSYCH 100H

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is a survey of lifespan developmental psychology from conception through death, including biological and environmental influences. Theories and research on physical, cognitive, personality, and social development are examined, as well as attention to developmental disturbances and problems.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: PSY 180

PSYCH 112 3 Units

Developmental Psychology: Child and Adolescent Psychology

Lecture: 54 contact hours

Prerequisite: PSYCH 100 or PSYCH 100H

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is a survey of the psychological growth of the normal individual from conception through adolescence with emphasis on stages of development. Particular emphasis is given to physical development, intellectual development, social and emotional development during the first two decades of life. Other topics include good and bad parenting styles and the potential problems encountered by children and adolescents.

Associate Degree Applicable

Transfers to both UC/CSU

PSYCH 118 3 Units**Human Sexual Behavior****Lecture:** 54 contact hours**Prerequisite:** PSYCH 100 or PSYCH 100H**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course provides an overview of the field of human sexuality through examining human sexuality from psychological, biological, sociocultural, and historical perspectives. Current sex norms and aspects of interpersonal and individual sexual adjustment will be explored. Students will be encouraged to develop an awareness of their own sexual attitudes, values, and behaviors and to evaluate the consistency of their behaviors within their own moral frameworks.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** PSY 130**PSYCH 141 3 Units****Introduction to Biological Psychology****Lecture:** 54 contact hours**Prerequisite:** PSYCH 100 or PSYCH 100H**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course will introduce the scientific study of the biological bases of behavior and the role of the scientific method in neuroscience. Topics will include basic neuroanatomy and neurophysiology, nervous system structure and functions, hormonal and neurochemical mechanisms, brain-behavior relationships underlying movement, sensation, perception, learning, memory, consciousness, emotion, regulatory processes, and psychological disorders. Historical scientific contributions and current research principles for studying brain-behavior relationships and mental processes will be addressed in this course. Ethical standards for human and animal research will be discussed in the context of both invasive and non-invasive experimental research.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** PSY 150**PSYCH 201 4 Units****Research Methods for the Behavioral Sciences****Lecture:** 72 contact hours**Prerequisite:** PSYCH 100 or PSYCH 100H and MATH 108 or PSYCH 105**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course focuses on various research methods primarily used in the social sciences including such topics as research design, experimental procedures, descriptive methods, instrumentation, and the collection, analysis, interpretation and reporting of research data.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** PSY 200

Psychology Associate of Arts Transfer Degree

Psychology is both a natural and a social science concerned with the study of human behavior, thoughts, and emotions. As such, it is a broad discipline which involves both pure science and practical application of science to matters of daily living. The Psychology Associate in Arts Degree for Transfer (Psychology AA-T degree) provides students with an education in the core aspects of Psychology which include research methods, statistics, biological influences on behavior and mental processes, and

major theoretical perspectives in the discipline. The Psychology AA-T degree prepares students for transfer to CSU campuses that offer bachelor's degrees in psychology.

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

To earn a Psychology AA-T degree, students must meet the following requirements:

- completion of the following major requirements with grades of C or better;
- completion of a minimum of 60 CSU transferable semester units with a grade point average of at least 2.0; and
- certified completion of the CSU General Education-Breadth (CSU-GE) or Intersegmental General Education Transfer Curriculum (IGETC), which requires a minimum of 37-39 units.

It is highly recommended that students complete courses that satisfy the U.S. History, Constitution, and American Ideals requirement as part of CSUGE or IGETC before transferring to a CSU.

It is also highly recommended that students complete ENGL 101/ENGL 101H or the equivalent before taking any Psychology courses beyond PSYCH 100/PSYCH 100H.

Code	Title	Units
Required Core Courses		11
PSYCH 100	General Psychology	3
or PSYCH 100H	General Psychology - Honors	
PSYCH 105	Statistics for the Behavioral Sciences	4
or MATH 108	Introduction to Probability and Statistics	
PSYCH 201	Research Methods for the Behavioral Sciences	4
List A - Select one of the following:		
PSYCH 141	Introduction to Biological Psychology	3-4
or BIOL 100	General Biology	
List B - Select one of the following (any course not used from List A):		
CD 105	Child Growth and Development	3
or CD 105H	Child Growth and Development - Honors	
ENGL 102	Intermediate Composition and Critical Thinking	4
or ENGL 102H	Intermediate Composition and Critical Thinking - Honors	
PSYCH 111	Developmental Psychology: Lifespan	3
PSYCH 112	Developmental Psychology: Child and Adolescent Psychology	3
SOC 100	Introduction to Sociology	3
or SOC 100H	Introduction to Sociology - Honors	
List C - Select one of the following or any course not selected from List A or List B:		
MATH 102	College Algebra	4
PSYCH 102	Personal and Social Adjustment	3
PSYCH 110	Abnormal Psychology	3
PSYCH 118	Human Sexual Behavior	3

Code	Title	Units
Major Total		20-23
General Education (CSU-GE or IGETC) Units		37-39
Elective (CSU Transferable) Units		0-3
Total Units		60

See Section on Degree, Certificate, and Transfer Information for additional information on the Associate Degrees for Transfer.

To earn an SBVC Associate Degree for Transfer (AA-T or AS-T) students must complete one of the following general education patterns:

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Identify, compare, and critically evaluate theory- and research-based ideas in psychology as assessed by written or objective assessments
- Analyze and evaluate psychological concepts as assessed by written or objective assessments
- Apply psychological concepts to the analysis and evaluation of the consequences of personal behavioral choices as assessed by written or objective assessments
- Identify, analyze, and apply concepts related to statistical information and techniques as well as research methods as assessed by written or objective assessments
- Prepare to transfer a core curriculum to an accredited, four-year college or university with junior class standing in Psychology or a related major

Reading and Study Skills

The Reading and Study Skills Department at San Bernardino Valley College maintains a commitment to instructional innovations, and inter-divisional collaboration, that supports its mission to provide a diverse community of learners with a variety of effective instructional experiences, which strengthens reading comprehension, critical thinking, and study strategies. These skills are essential in the preparation of students who will transfer to four-year universities, enter the workforce by earning applied degrees and certificates, and to improve the quality of life in San Bernardino, the Inland Empire, and beyond.

Sequence of Reading Courses

Student placement within the sequence is dependent on the results of the SBVC Self-Guided Placement Results. *Contact a counselor for details.*

Code	Title	Units
READ 620	Reading Skills ¹	0
READ 015	Preparation for College Reading ²	4
READ 100	College Academic Reading ³	3
READ 102	Critical Reading As Critical Thinking ⁴	3

¹ 11th Grade High School English Grade > D

² 11th Grade High School English Grade > C
(Recommended for students who want to continue developing proficiency in reading).

³ 11th Grade High School English Grade > B

⁴ Course satisfies CSU, General Education-Breadth Requirements: A3, 'Critical Thinking'

Contact Information

Division: Arts and Humanities (NH - 223)

Phone Number: (909) 387-1653

Faculty Chair: Kimberly D. Jefferson (kjeffers@sbccd.edu), M.A.

READ 015 4 Units

Preparation for College Reading

Lecture: 72 contact hours

This course is designed to foster general reading improvement with an emphasis on reading comprehension and vocabulary. Assignments are based on diagnostic tests, which identify strengths and weaknesses in reading comprehension and vocabulary.

Associate Degree Applicable

READ 100 3 Units

College Academic Reading

Lecture: 54 contact hours

Prerequisite: READ 015 or eligibility for READ 100 as determined through the SBVC assessment process.

This course is designed to improve reading and learning processes, reading comprehension, and critical thinking strategies as applied to all stages of academic reading. Emphasis will be on the integration and synthesis of academic text.

Associate Degree Applicable

Transfers to CSU only

READ 102 3 Units

Critical Reading As Critical Thinking

Lecture: 54 contact hours

Prerequisite: READ 100 or ENGL 101 or ENGL 101H

This course explores the relationship of critical reading and critical thinking with an emphasis on the development of critical thinking skills and the application in the interpretation, analysis, criticism, and advocacy of ideas encountered in academic reading.

Associate Degree Applicable

Transfers to CSU only

READ 620 Noncredit

Reading Skills

Lab: 54 contact hours

This noncredit, self-paced course is designed for students requiring basic reading skills instruction, including, but not limited to, phonics, dictionary usage, vocabulary development, syllabication, and beginning reading comprehension skills.

Real Estate

There are varieties of reasons why people study real estate. Some wish to become real estate agents, and some people study real estate to be better-informed consumers as they work with agents to buy or sell a personal residence. Still others study real estate as a way to acquire long-term investments that could generate rental income for their retirement years. Whatever the reason, this curriculum provides a strong basis for understanding the real estate market.

The Real Estate curriculum is designed to provide students with the preparation for pre-qualification for the real estate sales or brokers examinations.

Contact Information

Division: Mathematics, Business, and Computer Technology (B - 127)

Division Phone Number: (909) 384-8520

Faculty Chair: Michael Assumma (massumma@sbccd.cc.ca.us), M.B.A.

- Real Estate Associate of Arts Degree (p. 275)
- Real Estate Certificate of Achievement (p. 275)

REALST 062 3 Units

Real Estate Practice

Lecture: 54 contact hours

This course includes the day-to-day operations in real estate, overview of brokerage procedures and the various roles of the employee. The successful completion of this course meets qualifications for salesperson or broker licensing exam.

Associate Degree Applicable

REALST 063 3 Units

Real Estate Loan Processing Fundamentals

Lecture: 54 contact hours

Advisory: REALST 100

This course covers loan processing, specifically the mechanics of mortgage lending with emphasis on ethical practices.

Associate Degree Applicable

REALST 066 3 Units

Computerized Real Estate Loan Processing

Lecture: 54 contact hours

Prerequisite: REALST 100

Advisory: REALST 063

This course is an introduction to real estate computerized loan processing software. This course is intended to assist beginning and current real estate professionals in developing an understanding of the application of computer technology in real estate.

Associate Degree Applicable

REALST 068 3 Units

Real Estate Appraisal: Residential

Lecture: 54 contact hours

Advisory: REALST 100

This course addresses the purpose of appraisals, appraisal process, and the different methods, approaches, and techniques used to determine the value of various types of property. Successful completion of this course meets elective qualification for salesperson or broker licensing approval.

Associate Degree Applicable

REALST 070 3 Units

Real Estate Finance

Lecture: 54 contact hours

Advisory: REALST 100

This course addresses the analysis of real estate financing including lending policies and problems in financing transactions in residential, apartment, commercial and special purpose properties, emphasizing methods of financing. Successful completion of this course meets elective qualification for salesperson or broker licensing approval.

Associate Degree Applicable

REALST 074 3 Units

Legal Aspects of Real Estate

Lecture: 54 contact hours

Advisory: REALST 100

This course is the study of real estate law with emphasis on applications in real estate brokerage and related fields. Successful completion of this course meets elective qualification for salesperson or broker licensing approval.

Associate Degree Applicable

REALST 076 3 Units

Property Management

Lecture: 54 contact hours

Advisory: REALST 100

This course is a study of the history and role of the professional property manager. The topics covered include, leases, lease negotiations, tenant relations (both residential and commercial properties), liability issues, record keeping and thorough management operations.

Associate Degree Applicable

REALST 078 3 Units

Real Estate Economics

Lecture: 54 contact hours

Advisory: REALST 100

This course covers real estate economics as used to analyze national, regional, city and neighborhood trends in an effort to learn what has happened in the past to analyze future trends.

Associate Degree Applicable

REALST 080 3 Units

Escrow Procedures

Lecture: 54 contact hours

This course covers methods and techniques of escrow procedures emphasizing the legal and ethical responsibilities of professionals engaged in escrow and real estate work. (Formerly ESCROW 001)

Associate Degree Applicable

REALST 100 3 Units

Real Estate Principles

Lecture: 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or 101H as determined by the SBVC assessment process and MATH 942 or eligibility for a higher level math class as determined by the SBVC assessment process.

This course includes the fundamentals of real estate including the basic laws and principles of California real estate. This includes the background and terminology necessary for advanced study of real estate. The successful completion of this course meets qualifications for salesperson or broker licensing exam.

Associate Degree Applicable

Transfers to CSU only

REALST 901 3 Units

Real Estate Pre-License

Lecture: 54 contact hours

Advisory: REALST 100

This course is a review for the California Department of Real Estate salespersons license examination. Topics cover California real estate law, property ownership, legal procedures, contract law, appraising, financing and taxation, and real estate practice.

REALST 902 3 Units**Broker's License Review****Lecture:** 54 contact hours**Advisory:** REALST 100

This course prepares students to take the California Department of Real Estate broker's license examinations. Topics cover California real estate law, property ownership, legal procedures, contract law, appraising, financing and taxation, and real estate practice.

Real Estate Associate of Arts Degree

To graduate with a specialization in Real Estate, students must complete the following required courses plus the general breadth requirements for the Associate Degree (total = 60 units).

Code	Title	Units
Required Courses		
REALST 062	Real Estate Practice	3
REALST 068	Real Estate Appraisal: Residential	3
REALST 070	Real Estate Finance	3
REALST 074	Legal Aspects of Real Estate	3
REALST 076	Property Management	3
REALST 080	Escrow Procedures	3
REALST 100	Real Estate Principles	3
REALST 078	Real Estate Economics	3
or ECON 100	Introduction to Economics	
Total Units		24

Code	Title	Units
Recommended Courses		
ACCT 200	Financial Accounting	4
BUSAD 103	Marketing Principles	3
BUSAD 106	Principles of Selling	3
BUSAD 100	Introduction to Business	3
BUSAD 210	Business Law	3
BUSAD 050	Business Math	3
CIT 010	Beginning Keyboarding and Word Processing	3
REALST 063	Real Estate Loan Processing Fundamentals	3
REALST 066	Computerized Real Estate Loan Processing	3

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Critically analyze how real estate is acquired, held, used, regulated, taxed and transferred
- Define the role and responsibilities of a real estate agent in California

- Demonstrate an understanding of and familiarity in the world of real estate and its related terminology
- Meet the requirements to sit for the California Real Estate License Exam

Real Estate Certificate of Achievement

This certificate qualifies students for entry-level employment in title and escrow companies, mortgage companies, financial institutions, and related firms.

Code	Title	Units
Required Courses		
REALST 062	Real Estate Practice	3
REALST 068	Real Estate Appraisal: Residential	3
REALST 070	Real Estate Finance	3
REALST 074	Legal Aspects of Real Estate	3
REALST 100	Real Estate Principles	3
Select one of the following:		3-4
ACCT 200	Financial Accounting	4
BUSAD 103	Marketing Principles	3
BUSAD 106	Principles of Selling	3
BUSAD 100	Introduction to Business	3
BUSAD 210	Business Law	3
BUSAD 050	Business Math	3
REALST 063	Real Estate Loan Processing Fundamentals	3
REALST 076	Property Management	3
REALST 078	Real Estate Economics	3
or ECON 100	Introduction to Economics	
REALST 080	Escrow Procedures	3
Total Units		18-19

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Be familiar with various Real Estate listing agreements, concepts, forms, terminology, procedures, contracts, National Association of Realtor's Code of Professional Responsibility
- Read, interpret and discuss various principles of real estate
- Discuss and describe the methods of appraising real property and how to evaluate single-family residences, investment property and commercial property
- Discuss the effect of taxes on real estate including residential, income property, and investments, and understand telephone techniques, direct mail, and building clientele management of investment properties, methods for qualifying loans
- Be prepared to set up a real estate business by understanding the process of licensing and starting your own company, know the selling process including various types of sales. Be familiar with government agencies involved in real estate

- Analyze and know regulation, procedures of finance and economic factors such as understanding types of lenders, methods of qualifying loans, mortgage markets, Urban development, real estate cycles, and trends
- Understand basic real estate mathematics
- Understand the structure and scope of the escrow business and be able to outline the history of the real estate business
- Be prepared for Department of Real Estate (DRE) licensing examination

Sociology

Sociology is a social science involving the study of societies. Through analyses of society, its institutions, groups, processes, and social lives of people, sociologists attempt to understand and predict social interactions and change. Sociology prepares students for further study for careers in social work and counseling, social services, probation, corrections, law enforcement, research, public policy, law, education and other fields, which require an understanding of social life. The sociology program includes basic introductory courses in sociology, social problems, institutions, and social inequality. Students planning to transfer to a four-year institution and major in sociology should consult with a counselor regarding the transfer process and lower division requirements.

Contact Information

Division: Social Sciences, Human Development, and Physical Education (NH - 345)

Division Phone Number: (909) 384-8603

Faculty Chair: Romana Pires (rpires@sbccd.edu), M.A., M.S.

-
- Sociology Associate of Arts Transfer Degree (p. 277)

SOC 100 3 Units

Introduction to Sociology

Lecture: 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process

This course is an introductory study of the basic concepts, theoretical approaches, and methods of sociology. Included in this examination are the social influences on human behavior, social structure, culture, socialization and the self, group dynamics, social stratification, and global patterns, with an emphasis on social institutions.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: SOCI 110

SOC 100H 3 Units

Introduction to Sociology - Honors

Lecture: 54 contact hours

Prerequisite: ENGL 101 or ENGL 101H

This course is an introductory study of the basic concepts, theoretical approaches, and methods of sociology. Included in this examination are the social influences on human behavior, social structure, culture, socialization and the self, group dynamics, social stratification, and global patterns, with an emphasis on social institutions. This course is intended for students in the Honors Program, but is open to all students who desire more challenging course work.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: SOCI 110

SOC 110 3 Units

Social Problems

Lecture: 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an examination of contemporary social issues in the United States including causes, consequences, interventions, and solutions, with an emphasis on social institutions and other topics such as crime, inequalities, substance abuse, and the role of power and ideology in the construction and definitions of social problems.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: SOCI 115

SOC 110H 3 Units

Social Problems - Honors

Lecture: 54 contact hours

Prerequisite: ENGL 101 or ENGL 101H

This course is an examination of contemporary social issues in the United States including causes, consequences, interventions, and solutions, with an emphasis on social institutions and other topics such as crime, inequalities, substance abuse, and the role of power and ideology in the construction and definitions of social problems. This course is intended for students in the Honors Program, but is open to all students who desire more challenging work.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: SOCI 115

SOC 120 3 Units

Health and Social Justice

Lecture: 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an examination of health and illness in society. There is an emphasis on the social inequalities that stem from unequal living conditions, and social stratification that impact disproportionate health outcomes, health epidemics, and policy development throughout the life course. Organization of the medical system, healthcare access, public health issues, and advocacy related trends and strategies will be studied.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: PHS 102

SOC 130 3 Units

Family Sociology

Lecture: 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an examination of the family as a social institution. Topics include historical and contemporary trends, social stratification, intimacy and relationships, and social forces that influence the family.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: SOCI 130

SOC 135 3 Units**Introduction to Crime****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is a sociological examination of crime, criminality, and deviance in society with a focus on types of deviant and criminal behaviors, history, and patterns in the United States. Topics include sociological theories, definition and measurement of crime, cultural values and norms related to deviance, social inequality, criminal justice system, and the laws and methods used to control crime and deviance.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** SOCI 160**SOC 141 3 Units****Race and Ethnic Relations****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is a sociological examination of racial and ethnic groups. Topics include historical, cultural, political, and economic practices and social institutions that support or challenge racism, and contemporary issues related to racial and ethnic inequalities, and relations in the United States with some focus on global trends.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** SOCI 150**SOC 145 3 Units****Sociology of Gender****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an examination of the social construction of gender, femininity, and masculinity in the United States. Topics include historical, cross-cultural, and societal forces and change that influence gender socialization, expectations, and practices with an emphasis on social institutions and some focus on global contemporary trends.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** SOCI 140**SOC 150 3 Units****Aging and the Life Course****Lecture:** 54 contact hours

This course is a sociological examination of aging and the life course with an emphasis on aging as a social process. Topics include demographic trends, historical, cross-cultural, political, and economic forces that influence the experience of aging on individuals and families throughout the lifespan, communities, and societies, with some focus on global patterns.

Associate Degree Applicable**Transfers to both UC/CSU**

Sociology Associate of Arts Transfer Degree

Sociology is both a scientific and humanistic discipline. Sociologists examine the systems of social action including single social acts, social relationships, organizations, institutions, communities, and societies. Through analyses of society, its groups, institutions, and processes, sociologists attempt to understand and predict human behavior. The study

of sociology prepares students for further study of and careers in social work, probation, corrections, human services, law enforcement, research, public policy, law and education.

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. To earn a Sociology this AA-T degree, students must meet the following requirements:

- completion of the following major requirements with grades of C or better;
- completion of 60 CSU transferable semester units with a grade point average of a least 2.0; and
- certified completion of the CSU General Education-Breadth (CSU-GE) or Intersegmental General Education Transfer Curriculum (IGETC) for CSU, which requires a minimum of 39 units.

It is highly recommended that students complete courses that satisfy the U.S. History, Constitution, and American Ideals requirement as part of CSUGE or IGETC before transferring to a CSU.

Students planning to transfer to a four-year institution and major in sociology should consult with a counselor regarding the transfer process and lower division requirements. **Completion of CSU GE-Breadth or IGETC for the UC or CSU is required in addition to the major requirements listed below.**

Code	Title	Units
Required Courses		
SOC 100	Introduction to Sociology	3
or SOC 100H	Introduction to Sociology - Honors	
SOC 110	Social Problems	3
or SOC 110H	Social Problems - Honors	
Select one of the following:		4
PSYCH 105	Statistics for the Behavioral Sciences	4
ECON 208	Business and Economic Statistics	4
MATH 108	Introduction to Probability and Statistics	4
List A - Select two of the following or any required core course not already used:		
SOC 130	Family Sociology	3
SOC 135	Introduction to Crime	3
SOC 141	Race and Ethnic Relations	3
SOC 145	Sociology of Gender	3
List B - Select one of the following or any course not used from List A:		
ANTHRO 102	Cultural Anthropology	3
or ANTHRO 102	Cultural Anthropology - Honors	
PSYCH 100	General Psychology	3
or PSYCH 100H	General Psychology - Honors	
SOC 120	Health and Social Justice	3
SOC 150	Aging and the Life Course	3

Code	Title	Units
Major Total		19-21
Total Units That May Be Double Counted		12
General Education (CSU-GE or IGETC) Units		37-39

Elective (CSU Transferable) Units	3-16
Total Units	60

See Section on Degree, Certificate, and Transfer Information for additional information on the Associate Degrees for Transfer.

To earn an SBVC Associate Degree for Transfer (AA-T or AS-T) students must complete one of the following general education patterns:

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate understanding of the sociological perspective through the analysis of social life evaluated by written or objective assessments
- Demonstrate understanding of the major sociological perspectives through the analysis of social institutions evaluated by written or objective assessments

Spanish

Modern Spanish is one of Earth's great languages, with an impressive 450 million native speakers. It is a culturally rich and historically-significant language, the use of which spans no less than 3 continents, 20+ countries, and nearly 800 years.

The objectives of Spanish courses are level-appropriate linguistic competence and increased awareness of Hispanic culture. Classroom methods incorporate critical thinking and the direct oral approach. Assignments are based on lectures, reading, presentations and individual research. Activities may include: homework, workbooks, journals, documentaries, movies, presentations, interviews, cultural discussions, etc.

The Spanish AA-T is a great first, or second major because fluency is a valuable skill in most professional fields. Students transferring for a Modern Language B.A. should consult a counselor regarding certain process and course requirements. Modern Language graduates enter the fields of education, emergency and health services, social work, hospitality and administrative services, and business and sales. It is a great adjunct for students of Administration of Justice/Police Science, Anthropology, Business, Child Development, History, Pharmacy Technology, and Sociology.

Contact Information

Division: Arts and Humanities (NH - 223)

Division Phone Number: (909) 384-8633

Faculty Chairs: Davena Burns-Peters (dburns@sbccd.edu), B.E. and Nori Sogomonian (nsogomon@sbccd.edu), Ed.D.

-
- Spanish Associate of Arts Transfer Degree (p. 279)

SPAN 101 5 Units

College Spanish I

Lecture: 90 contact hours

In this course, students will develop the ability to converse, read, and write in Spanish. The course includes the study of essentials of pronunciation, vocabulary, idioms and grammatical structures along with an introduction to the cultures of Spanish speaking countries. This course corresponds to the first two years of high school study.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: SPAN 100

SPAN 101H 5 Units

College Spanish I - Honors

Lecture: 90 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 and ENGL 101H as determined through the SBVC assessment process.

In this course, students will develop the ability to converse, read, and write in Spanish. The course includes the study of essentials of pronunciation, vocabulary, idioms and grammatical structures along with an introduction to the cultures of Spanish speaking countries. This course corresponds to the first two years of high school study. This course is intended for students in the Honors Program, but it is open to all students who desire more challenging course work.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: SPAN 100

SPAN 102 5 Units

College Spanish II

Lecture: 90 contact hours

Prerequisite: SPAN 101 or SPAN 101H

In this course students continue to develop conversational, reading and writing skills in Spanish with emphasis on past tense verbs, grammar, vocabulary expansion and the culture of Spanish speaking countries.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: SPAN 110

SPAN 102H 5 Units

College Spanish II - Honors

Lecture: 90 contact hours

Prerequisite: SPAN 101 or SPAN 101H

In this course students continue to develop conversational, reading and writing skills in Spanish with emphasis on past tense verbs, grammar, vocabulary expansion and the culture of Spanish speaking countries. This course is intended for students in the Honors Program but is open to all students who desire more challenging course work.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: SPAN 110

SPAN 103 4 Units

College Spanish III

Lecture: 72 contact hours

Prerequisite: SPAN 102 or SPAN 102H

In this intermediate level course students develop complex conversational, reading and writing skills, with emphasis on the subjunctive and hypothetical situations. This course expands vocabulary in the Spanish language and awareness of Hispanic culture.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: SPAN 200

SPAN 103H 4 Units**College Spanish III - Honors****Lecture:** 72 contact hours**Prerequisite:** SPAN 102 or SPAN 102H

In this intermediate level course students develop complex conversational, reading and writing skills, with emphasis on the subjunctive and hypothetical situations. This course expands vocabulary in the Spanish language and awareness of Hispanic culture. This course is intended for students in the Honors Program but is open to all students who desire more challenging coursework.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** SPAN 200**SPAN 104 4 Units****College Spanish IV****Lecture:** 72 contact hours**Prerequisite:** SPAN 103 or SPAN 103H or SPAN 158

This course develops language skills through reading, discussion, analysis, and writing about culturally representative works from Spain and Latin America. Emphasis is on composition and literature as an expression of culture.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** SPAN 210**SPAN 157 4 Units****Spanish for Heritage Speakers I****Lecture:** 72 contact hours**Advisory:** SPAN 102 or SPAN 102H

This course is intended for students with native or near-native proficiency in spoken Spanish. Reading and writing standard literary Spanish is emphasized. Students will develop an increased understanding of academic vocabulary, grammar, orthography, and punctuation. Oral proficiency will also be strengthened. Analyzing and discussing topical, cultural and historically significant texts will allow students to increase cultural awareness of the Spanish-speaking world and to sharpen critical thinking skills. The course is conducted in Spanish.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** SPAN 220**SPAN 158 4 Units****Spanish for Heritage Speakers II****Lecture:** 72 contact hours**Prerequisite:** SPAN 157

This course is designed for students who already communicate in Spanish and who want to develop and strengthen reading and writing skills with special emphasis on vocabulary expansion, verbs, grammar, spelling, punctuation, and cultural applications of the Spanish language. Emphasis is on correct usage of standard Spanish. Course is conducted primarily in Spanish, producing skills equivalent to Spanish 103.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** SPAN 230

Spanish Associate of Arts Transfer Degree

The Associate in Arts-Transfer (AA-T) degree in Spanish has a threefold purpose. It is designed to help students: increase proficiency in the language; understand the cultures of the Spanish-speaking world; and, meet the requirements for completion of the bachelor's degree in the

CSU/UC systems. Students who complete the Spanish AA-T will have a solid foundation in reading, writing, speaking, and comprehending Spanish. Additionally, they will have developed a deeper awareness and understanding of the unique and diverse cultural milieu of Latin America and Spain. The skills acquired will help students prepare for a variety of careers in areas where a knowledge of Spanish is desirable, such as business, healthcare, journalism, education, communications, public safety, and more.

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. To earn this Spanish AA-T degree, students must meet the following requirements:

- completion of the following major requirements with grades of C or better;
- completion of a minimum of 60 CSU transferable semester units with a grade point average of a least 2.0; and
- certified completion of the CSU General Education-Breadth (CSUGE) or Intersegmental General Education Transfer Curriculum (IGETC) for CSU, which requires a minimum of 37-39 units.

It is highly recommended that students complete courses that satisfy the U.S. History, Constitution, and American Ideals requirement as part of CSUGE or IGETC before transferring to a CSU.

Students planning to transfer to a four-year institution and major in Spanish should consult with a counselor regarding the transfer process and lower division requirements.

Code	Title	Units
Required Core Courses (18 Units) ¹		
SPAN 101 or SPAN 101H	College Spanish I College Spanish I - Honors	5
SPAN 102 or SPAN 102H	College Spanish II College Spanish II - Honors	5
SPAN 103 or SPAN 103H	College Spanish III College Spanish III - Honors	4
SPAN 157	Spanish for Heritage Speakers I	4
SPAN 104 or SPAN 158	College Spanish IV Spanish for Heritage Speakers II	4
List A - Select one of the following:		
ENGL 163	Chicano Literature	3
HIST 140	Chicano History	3
HIST 150	Introduction to Latin American History	3
Code	Title	Units
Major Total		21
Total Units That May Be Double Counted		9
General Education (CSU-GE or IGETC) Units		37-39
Elective (CSU Transferable) Units		9-11
Total Units		60

¹ Note: If a student places out of any core course(s) and is not awarded units for that course, the student will need to take additional units from List A to compensate.

See Section on Degree, Certificate, and Transfer Information for additional information on the Associate Degrees for Transfer.

To earn an SBVC Associate Degree for Transfer (AA-T or AS-T) students must complete one of the following general education patterns:

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Demonstrate proficiency in the skills of speaking, reading, writing and comprehension of academic, standard Spanish
- Develop an appreciation and understanding of the diverse Spanish speaking regions and cultures around the world
- Prepare to take on advanced coursework in Spanish language and culture and/or transfer to an accredited university as a third-year student with a major in Spanish
- Produce accurate written and spoken standard Spanish as a means of communication in a professional setting where Spanish is spoken
- Seek opportunities to advance in their knowledge of language and culture such as Study Abroad offerings at the transfer institution

Student Development

The Student Development (SDEV) curriculum includes courses for students with disabilities, UC Puente Project, academic and career planning strategies, and information about academic strengths as well as support and success strategies. Courses are designed to help students succeed in college, develop good study habits, learn decision-making models and obtain in-depth information on the following - Associate and Associate-transfer degrees, certificates, transfer to universities, campus resources, and preparation for employment.

Contact Information

Division: Counseling and Matriculation (AD/SS - 103)

Division Phone Number: (909) 384-4404

Faculty Chairs: Andrea Hecht (ahecht@sbccd.edu), M.S. and Jamie Herrera (jherrera@sbccd.edu), M.S.

SDEV 001 1 Unit

Orientation to College

Lecture: 18 contact hours

This class introduces students to college culture, including academic policies and procedures. To assist in a smooth transition to college, students will identify college success strategies and campus resources that will support them in making a connection to the campus, a key component to success. (Formerly LST 001)

Associate Degree Applicable

SDEV 015 1 Unit

Puente: Strategies for College Success

Lecture: 18 contact hours

Corequisite: ENGL 101 or ENGL 101HJ

Advisory: READ 015

This course helps students identify their academic strengths and limitations as a first step in long-term educational planning for transfer. In addition, students learn essential skills for creating success in college and in life. This course is paired with ENGL 015 Preparation for College Writing (Puente Project).

Associate Degree Applicable

SDEV 102 3 Units

Pathways for College and Life Success

Lecture: 54 contact hours

Advisory: READ 015

This introductory course is designed for students seeking direction in setting academic and life goals. A bio-psycho-social perspective will be used to highlight the person-environment dynamics crucial to a well-rounded preparation for academic and life success. Major topics will include evaluation of personal interests, abilities and values, educational planning, goal setting, and academic success strategies.

Associate Degree Applicable

Transfers to both UC/CSU

SDEV 103 3 Units

Career Exploration and Life Planning

Lecture: 54 contact hours

Advisory: READ 015

This course is an in-depth study in career and life planning designed for students seeking direction in setting life, academic and career goals. A holistic perspective will be used to highlight the person-environment dynamics crucial to well-rounded preparation for a fulfilling career and life-span developmental achievements. Topics will include major choices, interviewing skills, cover letter and resume writing, and labor market trends.

Associate Degree Applicable

Transfers to both UC/CSU

SDEV 900 0.5 Units

Assessment of Learning Disabilities

Lecture: 9 contact hours

This course provides instruction in the history, general characteristics and legal definition of learning disabilities. Students' learning strengths and weaknesses and the determination of their eligibility for learning disability services will be determined through a comprehensive assessment. This course is designed for students with known or suspected learning disabilities. Graded on a pass/no pass basis only.

SDEV 905 1 Unit

Supportive Learning in Mathematics

Lab: 54 contact hours

This course provides specialized instruction and tutoring in basic math skills to individuals and small groups. This course is primarily designed for students who have been certified with disabilities through diagnostic testing; however, all students are welcome to enroll. Support strategies to minimize the effects of the disability in the academic setting are presented to maximize students' effectiveness. Graded on a pass/no pass basis only.

SDEV 906 2 Units**Supportive Learning in Reading****Lab:** 108 contact hours

This multi-sensory phonics course provides specialized instruction and tutoring in grading and spelling to individuals and small groups. Although this course is designed for students with disabilities as certified through diagnostic testing, all students are welcome to enroll. Support strategies to minimize the effects of the disability in the academic setting are presented to maximize students' effectiveness. Graded on a pass/no pass basis only.

Theatre Arts

Theatre Arts is the study of human expression, which culminates in live performance. The play is the medium used to tell a story performed by actors. Theatre Arts includes the study of the literature and related disciplines and technologies required for performances. The Theatre Arts Department coordinates several student performances each year. Courses offered by the Theatre Arts Department emphasize individual creativity, personal interaction, and communication skills. Courses are designed to meet the needs of students fulfilling general education requirements and the needs of students who are pursuing theatre as a major. Students planning to transfer to a four-year institution and major in Theatre Arts or a related field should consult with a counselor regarding the transfer process and lower division requirements.

Contact Information

Division: Arts and Humanities (NH - 223)

Division Phone Number: (909) 384-8633

Faculty Chairs: Melinda Fogle (%20mfogle@sbccd.edu), Ph.D. and Margaret Worsley (mworsley@sbccd.edu), M.M.

-
- Theatre Arts Associate of Arts Transfer Degree (p. 283)
 - Design and Technical Theatre Certificate of Achievement (p. 283)

THART 100 3 Units**Introduction to the Theatre****Lecture:** 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course focuses on the relationship of theatre to various cultures throughout history, and on the contributions of significant individual artists. This course introduces students to elements of the production process including playwriting, acting, directing, design, and criticism. Students will also survey different periods, styles, and genres of theatre through play reading, discussion, films, and viewing and critiquing live theatre, including required attendance of theatre productions.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** THTR 111**THART 105 3 Units****Script Analysis****Lecture:** 54 contact hours

Prerequisite: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course covers the principles, theories, and techniques of play script analysis for theatre production.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** THTR 114**THART 110 3 Units****Voice and Diction for Actors****Lecture:** 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course provides techniques of voice production for the stage. Theory and practice in developing vocal skills for performance such as relaxation, breathing, pitch, rate, articulation, volume, quality, characterization, and the use of dialects are included.

Associate Degree Applicable**Transfers to both UC/CSU****THART 114X4 4 Units****Rehearsal and Performance****Lab:** 216 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course provides supervised rehearsal and performance of a college musical and/or play production. It focuses on all aspects of theatre presentation, acting, and production.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** THTR 191**THART 120 3 Units****Acting Fundamentals I****Lecture:** 36 contact hours**Lab:** 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by SBVC assessment process.

This course provides an introduction to basic acting theory and technique. Students will develop performance skills, including relaxation, interpretation of text, memorization, stage movement, and vocal production.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** THTR 151**THART 121 3 Units****Acting Fundamentals II****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** THART 120

This course follows THART 120 and provides further exploration of acting theory and technique. Emphasis is placed on the development of character through script analysis and the performance of monologues and scenes.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** THTR 152

THART 131 3 Units**Sound for Stage and Screen****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 as determined by SBVC assessment process.

This course is an introductory course in the equipment and techniques used in theatrical and studio sound design, utilizing hands-on and computer training methods.

Associate Degree Applicable**Transfers to both UC/CSU****THART 132 3 Units****Lighting Design Fundamentals****Lecture:** 36 contact hours**Lab:** 54 contact hours

This course involves the study and execution of stage lighting with emphasis on equipment, control, color and their relationship to design.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** THTR 173**THART 135 3 Units****Directing Fundamentals****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** THART 120

This course provides an introduction to the theory, process and development of directorial skills for the stage.

Associate Degree Applicable**Transfers to both UC/CSU****THART 136 3 Units****Introduction to Theatre Design****Lecture:** 54 contact hours

This course offers a survey of scenery, lighting, sound, costumes, makeup, properties, theatrical equipment, and construction techniques. Information is applicable to all theatrical applications.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** THTR 172**THART 139 3 Units****Fundamentals of Costume Design****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by SBVC assessment process.

Students will study costume history, design, and basic construction techniques as an introduction to basic theatrical costuming. Fabrics and their various uses will be investigated.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** THTR 174**THART 147 3 Units****Theatre Movement****Lecture:** 36 contact hours**Lab:** 54 contact hours

This course is an introduction to the theory and fundamentals of stage movement. Students will develop physical awareness, range, and clarity. The course guides student work on physical characterization for modern and period-style plays.

Associate Degree Applicable**Transfers to both UC/CSU****THART 160X4 3 Units****Technical Theatre in Production****Lab:** 162 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by SBVC assessment process.

Students will gain practical experience in the application of production responsibilities in any of the following: stage management, house management, construction, scenery, properties, costume, lighting, sound, and running crews.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** THTR 192**THART 165 3 Units****Stage Makeup****Lecture:** 18 contact hours**Lab:** 108 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or 101H as determined by SBVC assessment process.

This course is an introduction to the theory, design, and application of makeup for the stage.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** THTR 175**THART 166 3 Units****Improvisational Acting****Lecture:** 36 contact hours**Lab:** 54 contact hours

This is a course of instruction in the art of improvisational acting to include theatrical presentation, history of the form, dramatic structure, elements of comedy, audition and rehearsal techniques, collaboration with other performers, and interaction with the audience.

Associate Degree Applicable**Transfers to both UC/CSU****THART 167 3 Units****Advanced Improvisational Acting****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** THART 166

This course follows THART 166 and provides further exploration in the art of advanced improvisational acting. Emphasis is placed on characterization, audience interaction, and the performance of long form improvisation.

Associate Degree Applicable**Transfers to both UC/CSU****THART 222 1-3 Units****Independent Study in Theatre****DIR:** 54 contact hours

Students with previous coursework in theatre may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of theatre. Prior to registration, a written contract must be prepared jointly by the instructor and the student. See instructor for details.

Associate Degree Applicable**Transfers to CSU only**

THART 295A-Z 0.5-3 Units

Special Topics in Theatre

Lab: 162 contact hours

This course will cover current and relevant topics in the field of Theatre Arts. Possible topics include Musical Theatre or New Plays Workshop, Experimental Theatre, Stage Combat, Children's Theatre, Playwriting, Puppetry, The Business of Acting, and Performance Studies.

Associate Degree Applicable

Transfers to CSU only

Design and Technical Theatre Certificate of Achievement

The Design and Technical Theatre Certificate is designed to prepare students for occupational competency as a theatre technician, designer, or manager in educational, community, and resident theatre venues, as well as theme parks, television, and motion picture studios. Theatre technicians may work on set construction, theatrical carpentry, scenery, sound, lighting, costumes, makeup, props, and special effects.

Code	Title	Units
Required Courses		
THART 100	Introduction to the Theatre	3
THART 120	Acting Fundamentals I	3
THART 132	Lighting Design Fundamentals	3
THART 136	Introduction to Theatre Design	3
THART 139	Fundamentals of Costume Design	3
THART 160X4	Technical Theatre in Production	3
THART 165	Stage Makeup	3
Total Units		21

Code	Title	Units
Recommended Courses		
THART 131	Sound for Stage and Screen	3
THART 135	Directing Fundamentals	3

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Define and distinguish between commonly used theatrical terms applied to design and the technical elements of theatre production
- Demonstrate and use basic skills in creating and organizing a design project from concept to execution
- Demonstrate proficiency in the skills required for a technical theatre crew
- Analyze a play script to create a costume design concept
- Use makeup to interpret an author's characterization
- Identify, define, and describe terminology commonly associated with theatrical lighting design and execution

Theatre Arts Associate of Arts Transfer Degree

The Associate of Arts for Transfer (AA-T) in Theatre Arts develops a well-rounded theatre artist through the Student Transfer Achievement Reform Act (SB 1440). The law states that students will have guaranteed admission to a California State University (CSU) campus upon successful completion of the specified program requirements. This degree provides students with transfer preparation and pre-professional training. The AA-T in Theatre Arts emphasizes the hands-on, collaborative experience of theatrical production, building students' skills in performance and technical theatre. Students should consult with a counselor to determine whether this degree is the best option for their transfer goals.

The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an 'associate degree for transfer', a newly established variation of the associate degrees traditionally offered at a California community college. The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete 60 units after transfer to earn a bachelor's degree (unless the major is a designated 'high unit' major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

To earn this AA-T degree, students must complete the following Associate Degree for Transfer requirements:

- completion of the following major requirements with grades of C or better;
- completion of 60 CSU transferable semester units with a grade point average of at least 2.0; and
- Certified completion of the CSU General Education-Breadth (CSU-GE) or Intersegmental General Education Transfer Curriculum (IGETC) for CSU, which requires a minimum of 39 units.

It is highly recommended that students complete courses that satisfy the U.S. History, Constitution, and American Ideals requirement as part of CSUGE or IGETC before transferring to a CSU.

Students planning to transfer to a baccalaureate institution and major in Theatre should consult with a counselor regarding the transfer process and lower division requirements.

Code	Title	Units
Required Core Courses		
THART 100	Introduction to the Theatre	3
THART 120	Acting Fundamentals I	3
THART 114X4	Rehearsal and Performance	3-4
	or THART 160X Technical Theatre in Production	

List A - Select three of the following not used in required core:

THART 105	Script Analysis	3
THART 121	Acting Fundamentals II	3
THART 132	Lighting Design Fundamentals	3

THART 136	Introduction to Theatre Design	3
THART 139	Fundamentals of Costume Design	3
THART 165	Stage Makeup	3
THART 114X4 or THART 160X	Rehearsal and Performance Technical Theatre in Production	3-4

Code	Title	Units
Major Total		18-19
Total Units That May Be Double Counted		3
General Education (CSU-GE or IGETC) Units		39-42
Elective (CSU Transferable) Units		5-8
Total Units		60

See Section on Degree, Certificate, and Transfer Information for additional information on the Associate Degrees for Transfer.

To earn an SBVC Associate Degree for Transfer (AA-T or AS-T) students must complete one of the following general education patterns:

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Assess the historical, social, artistic, and philosophical relevance of theatre
- Evaluate and analyze a script for rehearsal and performance
- Demonstrate basic skills and apply a basic craft of acting in performance
- Analyze a script to create a design concept
- Create a design from a design concept

Vocational Education

These noncredit workforce readiness courses and certificates are designed to prepare students to be successful in the workforce. Additionally, they are intended as a pathway to credit courses and certificates for students who have not previously considered college an option. Students enrolling in SBVC's Vocational Education courses will develop skills needed to find and keep a job while gaining confidence in their ability to learn in a college environment.

Contact Information

Division: Academic Success and Learning Services (LIB - 123)

Division Phone Number: (909) 384-8649

Faculty Chair: Ginny Evans-Perry (gperry@sbccd.edu), M.L.I.S

- Job Readiness Skills Certificate of Completion (p. 284)
- Workforce Literacy Skills Certificate of Completion (p. 285)

VOCED 600 Noncredit

Introduction to the Workplace

Lecture: 18 contact hours

This noncredit course is designed to provide students with the skills to identify and develop tools for success in the workplace. The topics covered include, but are not limited to, career-discovery, job market analysis, workplace skills, workplace law, workplace and personal finances, and time management.

VOCED 601 Noncredit

Customer Service in the Workplace

Lecture: 18 contact hours

This noncredit course is designed to provide students with the customer service skills required to interact with customers or clients in the workplace. The topics covered include understanding customer needs, listening to customers, and telephone customer service.

VOCED 602 Noncredit

Job Search Strategies

Lecture: 9 contact hours

This noncredit course is designed to provide prospective employees with a support system that will assist them in preparation for the workforce. The topics covered but are not limited to planning their job search, utilizing outside resources, the hidden job market, and job market research. After completing this course, the student has an option to continue their education or become gainfully employed.

VOCED 603 Noncredit

Positive Strategies for the New Employee

Lecture: 9 contact hours

This noncredit course is designed to provide students with the knowledge to increase their level of customer services and colleague relations. The topics covered will include new employee skills, workplace culture, continuing education, and work-life balance.

VOCED 631 Noncredit

Fundamentals of Business English

Lecture: 36 contact hours

This noncredit course is a review of effective business communication in the workplace. Emphasis is placed on basic grammar, punctuation, capitalization, vocabulary, and spelling in common business documents.

Job Readiness Skills Certificate of Completion

This noncredit Job Readiness Skills Certificate prepares students to enter the workforce through career exploration, resume development, and interview skills. The certificate includes training for the newly employed including time management, reading paychecks, office etiquette, and customer service skills.

Code	Title	Units
Required Courses		
VOCED 600	Introduction to the Workplace	16-18
VOCED 601	Customer Service in the Workplace	16-18
VOCED 602	Job Search Strategies	8-9
VOCED 603	Positive Strategies for the New Employee	8-9
Total Hours		48-54

Program Learning Outcomes

At the completion of this program, students will be able to:

- Use proper, effective communication with employers, co-workers, and customers
- Develop an effective resume that matches a job description
- Prepare for an employment interview, including developing responses, describing experience, and dressing for success
- Deliver excellent customer service

Workforce Literacy Skills Certificate of Completion

This noncredit certificate is designed to prepare students for entry into the work force by; researching careers, developing a resume and learning interview skills.

Code	Title	Units
Required Courses		
CIT 601	Introduction to Basic Computer Skills	24-27
MATH 601	Independent Lab for Fundamental Mathematics 90-180 Skills	
VOCED 600	Introduction to the Workplace	16-18
VOCED 601	Customer Service in the Workplace	16-18
VOCED 602	Job Search Strategies	8-9
VOCED 603	Positive Strategies for the New Employee	8-9
VOCED 631	Fundamentals of Business English	32-36
Total Hours		194-297

Program Learning Outcomes

At the completion of this program, students will be able to:

- Use proper, effective communication with employers, co-workers, and customers
- Develop an effective resume that matches a job description
- Prepare for an employment interview, including developing responses, describing experience, and dressing for success
- Deliver excellent customer service

Water Supply Technology

The Water Supply Technology Program is designed to serve students who are employed or interested in employment in water/wastewater occupations. The program provides technical classes in water distribution, water treatment, wastewater collection, and wastewater treatment. The courses prepare students to upgrade their skills and/or prepare them for licensing examinations and certifications from the California Department of Public Health, the California State Water Resource Control Board, the American Water Works Association, and the California Water Environment Association.

The certificate program is designed to prepare students for entry-level jobs in water treatment, water distribution, and wastewater reclamation industries. The associate of science degree graduates often work in city, county, or state agencies in positions such as plant operator, engineering technician, surface water manager, environmental laboratory coordinator, and industrial pre-treatment coordinator.

Contact Information

Division: Applied Technology, Transportation, and Culinary Arts (T - 108)

Division Phone Number: (909) 384-4451

Faculty Chair: Melita Caldwell-Betties (mcaldwell@sbccd.edu), M.P.A.

- Water Technology Associate of Science Degree (p. 290)
- Basic Waterworks Certificate of Completion (p. 288)
- Wastewater Technology Certificate of Completion (p. 289)
- Water Supply Technology Certificate of Achievement (p. 289)
- Water Use Specialist Certificate of Completion (p. 290)

WST 031 3 Units

Water Use Efficiency Practitioner I

Lecture: 54 contact hours

This introductory water conservation course is designed for students interested in working as a water use efficiency practitioner. It includes the expected range of knowledge required for the American Water Works Association (AWWA) Water Use Efficiency Practitioner I Certificate.

Associate Degree Applicable

WST 034 3 Units

Introduction to Water Resource Management

Lecture: 54 contact hours

This course explores the history and development of California water resources. In addition, the course covers the impact of environmental and economic water usage as well as water quality, water pollution and water resource regulations affecting our public drinking water. The basics of watershed management, water supply availability, ground and surface water hydrology as well as alternative sources of water such as the use of water conservation methods will be covered.

Associate Degree Applicable

WST 036 3 Units

Water Utility Management

Lecture: 54 contact hours

Prerequisite/Corequisite: WST 092 or WST 062 or WST 072 or WST 082

Advisory: ENGL 101 or ENGL 101H

This course is designed for students interested in managing water and/or wastewater utilities. Topics will include personnel management, organizational management, financial management, training, problem-solving/decision-making, regulatory compliance, health and safety programs, community relations, personal and professional skills.

Associate Degree Applicable

WST 037 3 Units

Environmental Laws and Regulations

Lecture: 54 contact hours

Prerequisite: WST 031 or WST 071 or WST 036 or WST 091

Corequisite: WST 036

This course is designed to provide a comprehensive overview of federal, state, and local laws and regulations relating to environmental protection and pollution prevention. The course explores the roles of politics, economics, science, and health, in setting regulatory policies that are designed to safeguard and protect water resources. As a part of this course environmental monitoring standards, regulatory agencies, inter-agency relationships and jurisdictions are explored.

Associate Degree Applicable

WST 038 3 Units**Geographic Information Systems (GIS) in Water Resources****Lecture:** 54 contact hours

The introductory course will provide students with a deeper understanding of geography from a water utility perspective, instruction on the basics of Geographic Information Systems (GIS), and introduce them to the core principles of how the knowledge may be applied to water resource management. GIS is used to solve real world water problems including infrastructure placement and maintenance, the difficulties associated with sourcing water, moving water, and treating water as well as the impacts of these on human populations and the natural world.

Associate Degree Applicable**WST 045 3 Units****Backflow Prevention Devices****Lecture:** 45 contact hours**Lab:** 27 contact hours

This course provides instruction in theory, testing, and maintenance of backflow prevention assemblies. It prepares journeyman plumbers and utility operators to take the American Water Work Association Backflow Prevention Certification test.

Associate Degree Applicable**WST 048 3 Units****Cross-Connection Control****Lecture:** 54 contact hours**Prerequisite/Corequisite:** WST 045

This course is a study of the administrative and technical procedures required to establish a cross-connection control program, including a review of applicable local, state and federal regulations. The course includes the identification and study of backflow devices required to mitigate hazards of actual or potential connections between a potable water supply and any source of contamination. It also prepares students to become certified as cross-connection control program specialists.

Associate Degree Applicable**WST 052 3 Units****Water Technology Math****Lecture:** 54 contact hours

This vocational math course is recommended for students who are currently enrolled in water technology course(s). The course includes application of math to solve problems commonly encountered in water technology.

Associate Degree Applicable**WST 053 3 Units****Wastewater Technology Math****Lecture:** 54 contact hours

This vocational math course is recommended for students who are currently enrolled in wastewater treatment course(s). The course includes math required to solve problems commonly encountered in the primary, secondary, and tertiary treatment of wastewater.

Associate Degree Applicable**WST 061 3 Units****Water Distribution I****Lecture:** 54 contact hours**Advisory:** WST 052

This introductory course is designed for students interested in the field of water distribution. It covers the configuration, operation and maintenance of a water distribution system, and includes the Expected Range of Knowledge (ERK) required for the State Water Resource Control Board (SWRCB) water distribution certification tests at D1 and D2 levels. Successful completion of this course fulfills the requirements for specialized training covering fundamentals of water supply principles required to apply for the SWRCB D2 certification test.

Associate Degree Applicable**WST 062 3 Units****Water Distribution II****Lecture:** 54 contact hours**Prerequisite:** WST 061

This advanced level course prepares students for journeyman level system operations in the field of water distribution. The course covers the Expected Range of Knowledge (ERK) required for the California State Water Resources Control Board (SWRCB) examination at the Water Distribution Operator IV (D4) and Water Distribution Operator V (D5) levels. Successful completion of this course also fulfills the requirements for specialized training covering fundamentals of water supply principles required to apply for SWRCB Water Treatment Operator III (T3) and Water Distribution Operator IV (D4) examinations.

Associate Degree Applicable**WST 071 3 Units****Water Treatment I****Lecture:** 54 contact hours**Advisory:** WST 052

This introductory course is designed for students interested in the field of water treatment. It includes processes required to treat source water into potable water and includes the Expected Range of Knowledge (ERK) required to pass the California State Water Resource Control Board (SWRCB) examination at the Water Treatment Operator I (T1) and Water Treatment Operator I (T2) level. Successful completion of this course fulfills the requirements for the specialized training covering drinking water treatment required to apply for SWRCB T2 certification test.

Associate Degree Applicable**WST 072 3 Units****Water Treatment II****Lecture:** 54 contact hours**Prerequisite:** WST 071

This advanced level course prepares students for journeyman level plant operations in the field of water treatment. The course covers the Expected Range of Knowledge (ERK) required to pass the State Water Resources Control Board (SWRCB) examination at Water Treatment Operator III (T3) and Water treatment Operator IV (T4) level. Successful completion of this course fulfills the requirements for specialized training covering fundamentals of water supply principles required to apply for SWRCB Water Treatment Operator III (T3) and Water Distribution Operator III (D3) examinations.

Associate Degree Applicable

WST 075 4 Units**Water/Wastewater Chemistry and Analysis****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite/Corequisite:** WST 071 or WST 091

This course introduces students to the physical and chemical properties of substances commonly used in the treatment of water/wastewater and the role of laboratory analysis in the treatment processes. The course includes procedures and techniques used by plant operators in physical, chemical, and bacteriological examination of water/wastewater.

Associate Degree Applicable**WST 081 3 Units****Wastewater Collection I****Lecture:** 54 contact hours**Advisory:** WST 053

This course is designed to train operators in the practical aspects of operating and maintaining wastewater collector systems, emphasizing safe practices and procedures. The course focuses on the knowledge, skills, and abilities required to perform the essential duties of an entry level collection system maintenance technologist and prepares students to take the California Water Environment Association (CWEA) Collection System Certification exam at the Grade I level.

Associate Degree Applicable**WST 082 3 Units****Wastewater Collection II****Lecture:** 54 contact hours**Prerequisite:** WST 081

This course is designed to provide an in-depth understanding of the operation and maintenance of wastewater collector systems. The course focuses on the knowledge, skills, and abilities required to perform the essential duties of a skilled or journey level collection system maintenance technologist and prepares students to take the California Water Environment Association (CWEA) Collection System Certification exam at Grade II.

Associate Degree Applicable**WST 086 3 Units****Electrical Instrumentation for Water and Wastewater Operations****Lecture:** 54 contact hours**Advisory:** WST 061 and WST 071 and WST 091

This is an introductory course in electrical instrumentation. The focus of this course will be on how electrical instrumentation is used in the water/wastewater industry. The course will cover basic electronic, electrical, and control systems used for pressure, temperature, level, and flow measurements needed for process control. Electrical safety, process and instrumentation diagrams, and other instrumentation for automation and process control will be discussed.

Associate Degree Applicable**WST 091 3 Units****Wastewater Treatment I****Lecture:** 54 contact hours**Advisory:** WST 053

An introduction to wastewater treatment, students will explore the scope, limits, and methods of wastewater treatment processes through readings, discussions, analysis, and laboratory study. This course is designed for individuals seeking employment or already employed in the wastewater field. It covers the wastewater operator's job-related knowledge identified by the SWRCB examination developers as essential for a minimally competent Grade I or Grade II Wastewater Treatment Plant Operator.

Associate Degree Applicable**WST 092 3 Units****Wastewater Treatment II****Lecture:** 54 contact hours**Prerequisite:** WST 091**Advisory:** WST 053

This is an advanced course in wastewater treatment. Students will explore the scope, limits, and methods of secondary and advanced treatment, solids handling, disinfection, and the reclamation of wastewater, through readings, discussions, analysis, and laboratory study. This course is designed for individuals seeking employment or already employed in the wastewater field. It covers the wastewater operator's job-related knowledge identified by the California State Water Resources Control Board examination developers as essential for a minimally competent Wastewater Treatment Plant Operator Grade III or above.

Associate Degree Applicable**WST 098 1-4 Units****Water Supply Technology Work Experience****WRKEX:** 300 contact hours**Prerequisite:** WST 061 or WST 071 or WST 081 or WST 091

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable**WST 601 Noncredit****Test Review for Water Distribution D1****Lecture:** 9 contact hours

This non-credit course is designed to familiarize students with the expected Range of Knowledge (ROK) required to pass the State Water Resources Control Board (SWRCB) Distribution Operator test at level D1. The review topics include distribution system operations, disinfection, related mathematics and safety. The course may also be used to earn continuing education units required to renew the certificate.

WST 602 Noncredit**Test Review for Water Distribution D2****Lecture:** 9 contact hours

This non-credit course is designed to familiarize students with the expected Range of Knowledge (ROK) required to pass the State Water Resources Control Board (SWRCB) Distribution Operator test at level D2. The review topics include distribution system operations, disinfection, related mathematics and safety. The course may also be used to earn continuing education units required to renew the certificate.

WST 603 Noncredit**Test Review for Water Distribution Operation D3****Lecture:** 8 contact hours

This non-credit course is a review of the expected Range of Knowledge (ROK) required to obtain the State Water Resources Control Board (SWRCB) Distribution Operator certification at the Distribution Operator III level. The review topics include distribution system operations, disinfection, related mathematics, and safety.

WST 611 Noncredit**Test Review for Water Treatment T1****Lecture:** 9 contact hours

This course is a review of the expected Range of Knowledge (ROK) required to obtain the California State Water Resources Control Board (SWRCB) Water Treatment Operator License at level T1. The review topics include conventional treatment techniques, flocculation, sedimentation, filtration, system pressures, and related math.

WST 612 Noncredit**Test Review for Water Treatment T2****Lecture:** 8 contact hours

This noncredit course is a review of the expected Range of Knowledge (ROK) required to obtain the State Water Resources Control Board (SWRCB) Water Treatment Operator II certification. The review topics include conventional treatment techniques, source water supply and storage, water quality regulation and related math.

WST 625 Noncredit**Test Review for Wastewater Treatment Plant Operations Grades One and Two****Lecture:** 8 contact hours

This noncredit course is a review of the expected knowledge for a minimally competent Wastewater Treatment Plant Operator as determined by State Water Resources Control Board (SWRCB) treatment operator certification at the Grades I and II level. The review topics include wastewater treatment operations, disinfection, related mathematics, and safety.

WST 626 Noncredit**Test Review for Wastewater Treatment Plant Operations Grades Three, Four and Five****Lecture:** 8 contact hours

This noncredit course is a review of the expected knowledge for a minimally competent Wastewater Treatment Plant Operator as determined by State Water Resources Control Board (SWRCB) treatment operator certification at the Grades III, IV and V level. The review topics include wastewater treatment operations, administration, process control, regulations, disinfection, related mathematics, and safety.

WST 629 Noncredit**Introduction to Water Supply Technology****Lecture:** 8 contact hours

This noncredit course introduces students to entry-level training in water conservation, treatment, supply, delivery, and waste collection systems. The goal of this course is to offer students better defined opportunities for career selection in the field of water technology. Regulations-licensing and the certification process will be discussed as a part of this course.

WST 631 Noncredit**Introduction to Water Use Efficiency****Lecture:** 36 contact hours

This noncredit water conservation course is designed for students interested in working as a water use efficiency practitioner. It includes the expected range of knowledge required for the American Water Works Association (AWWA) Water Use Efficiency Practitioner I Certificate.

WST 652 Noncredit**Basic Waterworks Math Test Preparation****Lecture:** 16 contact hours

This noncredit course prepares students for the quantitative and algebraic questions typically encountered on water distribution and water treatment operations licensing examinations. This course is also recommended for students currently enrolled in water technology course(s) who desire refresher training in the applied math skills that are unique to water operations. Topics include, but are not limited to, unit conversion, volume, velocity, flow rates, chemical dosages, percent strength, and dilution calculations. Also included are some basic test-taking techniques to increase proficiency on the state exam.

WST 653 Noncredit**Wastewater Technology Math Test Preparation****Lecture:** 16 contact hours

This noncredit course prepares students for the quantitative and algebraic questions typically encountered on wastewater collections and wastewater treatment operations licensing examinations. This course is also recommended for students currently enrolled in water technology course(s) who desire refresher training in the applied math skills that are unique to wastewater collections and treatment operations. Topics include, but are not limited to, unit conversion, volume, velocity, flow rates, chemical dosages, process control, and solids handling. Also included are some basic test-taking techniques to increase proficiency on the state exam.

WST 661 Noncredit**Introduction to Water Distribution****Lecture:** 36 contact hours

This noncredit course is designed for students interested in the field of water distribution. It covers the configuration, operation and maintenance of a water distribution system, and includes the Expected Range of Knowledge (ERK) required for the State Water Resource Control Board (SWRCB) water distribution certification tests at D1 and D2 levels. Successful completion of this course fulfills the requirements for specialized training covering fundamentals of water supply principles required to apply for the SWRCB D2 certification test.

WST 671 Noncredit**Introduction to Water Treatment****Lecture:** 36 contact hours

This noncredit course is designed for students interested in the field of water treatment. It includes processes required to treat source water into potable water and includes the Expected Range of Knowledge (ERK) required to pass the California State Water Resource Control Board (SWRCB) water treatment certification test at T1 level. Successful completion of this course fulfills the requirements for the specialized training covering drinking water treatment required to apply for SWRCB T2 certification test.

WST 681 Noncredit**Introduction to Wastewater Collections****Lecture:** 36 contact hours

This noncredit course is designed to train operators in the practical aspects of operating and maintaining wastewater collector systems, emphasizing safe practices and procedures. The course focuses on the knowledge, skills, and abilities required to perform the essential duties of an entry level collection system maintenance technologist and prepares students to take the California Water Environment Association (CWEA) Collection System Certification exam at Grade I.

WST 691 Noncredit**Introduction to Wastewater Treatment****Lecture:** 36 contact hours

This is an introductory course in wastewater treatment. This noncredit course covers material included in the State Water Resources Control Board (SWRCB) grade I certification exam.

Basic Waterworks Certificate of Completion

This noncredit Basic Waterworks Certificate is designed to prepare students with the necessary knowledge and skills to obtain entry-level employment in the water supply, delivery, and treatment operations. Note: The Basic Waterworks Certificate is not equivalent to the "Certificate of

Competency" issued by the California State Water Resources Control Board in Water Distribution or Water Treatment.

Code	Title	Units
Required Courses		
CIT 601	Introduction to Basic Computer Skills	24-36
VOCED 631	Fundamentals of Business English	16-32
WST 601	Test Review for Water Distribution D1	8-16
WST 611	Test Review for Water Treatment T1	8-16
WST 629	Introduction to Water Supply Technology	4-8
WST 652	Basic Waterworks Math Test Preparation	16-32
WST 661	Introduction to Water Distribution	32-36
WST 671	Introduction to Water Treatment	32-36
Total Hours		140-212

Program Learning Outcomes

At the completion of this program, students will be able to:

- Have knowledge of fundamental aspects of water resource management, conservation, distribution, treatment, collection, recycle, and disposal operations
- Perform tasks in connection with the operation, control, and maintenance of water and sanitation systems
- Demonstrate effective oral and written communication skills and apply these tools in a regulatory context (i.e. the public health protection)

Wastewater Technology Certificate of Completion

The noncredit Wastewater Technology Certificate is designed to prepare students with the necessary knowledge and skills to obtain entry-level employment in wastewater collections, treatment, and recycle operations. Note: The Wastewater Technology Certificate is not equivalent to the "Certificate of Competency" issued by the California Water Environment Association (CWEA) in wastewater collection system operations or the "Certificate of Competency" issued by the State Water Resources Control Board (SWRCB) in Wastewater Treatment. The Cooperative Work Experience course, WST 098, is highly recommended for students not currently employed in the field.

Code	Title	Units
Required Courses		
CIT 601	Introduction to Basic Computer Skills	24-27
VOCED 631	Fundamentals of Business English	32-36
WST 629	Introduction to Water Supply Technology	4-8
WST 625	Test Review for Wastewater Treatment Plant Operations Grades One and Two	8-16
WST 653	Wastewater Technology Math Test Preparation	16-32
WST 681	Introduction to Wastewater Collections	32-36
WST 691	Introduction to Wastewater Treatment	32-36
Total Hours		148-191

Program Learning Outcomes

At the completion of this program, students will be able to:

- Have knowledge of fundamental aspects of water resource management, conservation, distribution, treatment, collection, recycle, and disposal operations
- Perform tasks in connection with the operation, control, and maintenance of water and sanitation systems
- Demonstrate effective oral and written communication skills and apply these tools in a regulatory context (i.e. the public health protection)

Water Supply Technology Certificate of Achievement

The Water Supply Technology Certificate is designed to prepare students with the necessary knowledge and skills to obtain entry-level employment in the water supply, delivery, and treatment operations. [The Water Supply Technology Certificate should not be confused with certification issued by the State Water Resources Control Board, California Water Environment Association (CWEA), or the American Water Works Association (AWWA). Certification by the State of California requires the qualified individual to: 1) pass an examination administered by the State Water Resources Control Board, California Water Environment Association (CWEA), or American Water Works Association (AWWA); 2) meet the experience and/or educational minimum requirements; 3) and, submit a certification application with the applicable fee.

Code	Title	Units
Required Courses		
CIT 031	Business English	3
WST 075	Water/Wastewater Chemistry and Analysis	4
WST 052	Water Technology Math	3
or WST 053	Wastewater Technology Math	

Select six courses from the list below:

WST 031	Water Use Efficiency Practitioner I	3
WST 034	Introduction to Water Resource Management	3
WST 037	Environmental Laws and Regulations	3
WST 038	Geographic Information Systems (GIS) in Water Resources	3
WST 045	Backflow Prevention Devices	3
WST 048	Cross-Connection Control	3
WST 061	Water Distribution I	3
WST 062	Water Distribution II	3
WST 071	Water Treatment I	3
WST 072	Water Treatment II	3
WST 081	Wastewater Collection I	3
WST 082	Wastewater Collection II	3
WST 086	Electrical Instrumentation for Water and Wastewater Operations	3
WST 091	Wastewater Treatment I	3
WST 092	Wastewater Treatment II	3
Total Units		28

Code	Title	Units
Recommended Courses		
CIT 101	Introduction to Computer Literacy	3
WST 098	Water Supply Technology Work Experience	1-4

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Have knowledge of fundamental aspects of water resource management, conservation, distribution, treatment, collection, recycle, and disposal operations
- Perform tasks in connection with the operation, control, and maintenance of water and sanitation systems
- Demonstrate effective oral and written communication skills and apply these tools in a regulatory context (i.e. public health protection)

Water Technology Associate of Science Degree

The Water Supply Technology Program is designed to serve students who are employed or interested in employment in water/wastewater occupations. The program provides technical classes in water distribution, water treatment, wastewater collection, and wastewater treatment. The courses prepare students to upgrade their skills and/or prepare them for certification examinations from the California State Water Resource Control Board, the American Water Works Association, and the California Water Environment Association. The certificate program is designed to prepare students for entry level jobs in water treatment, water distribution, and wastewater reclamation industries. The associate of science degree graduates often work in city, county, or state agencies in positions such as plant operator, engineering technician, surface water manager, environmental laboratory coordinator, and industrial pre-treatment coordinator.

To graduate with a specialization in Water Technology, students must complete the following required courses in addition to the general breadth requirements for Associate of Science degree (total = 60 units).

Code	Title	Units
Required Courses		
WST 034	Introduction to Water Resource Management	3
WST 037	Environmental Laws and Regulations	3
WST 075	Water/Wastewater Chemistry and Analysis	4
Select five courses from the list below:		18
WST 031	Water Use Efficiency Practitioner I	3
WST 036	Water Utility Management	3
WST 038	Geographic Information Systems (GIS) in Water Resources	3
WST 045	Backflow Prevention Devices	3
WST 048	Cross-Connection Control	3
WST 061	Water Distribution I	3
WST 062	Water Distribution II	3
WST 071	Water Treatment I	3
WST 072	Water Treatment II	3
WST 081	Wastewater Collection I	3
WST 082	Wastewater Collection II	3
WST 086	Electrical Instrumentation for Water and Wastewater Operations	3

WST 091	Wastewater Treatment I	3
WST 092	Wastewater Treatment II	3
Total Units		25

Code	Title	Units
Recommended Courses		
CIT 101	Introduction to Computer Literacy	3
WST 098	Water Supply Technology Work Experience	1-4

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Have knowledge of fundamental aspects of water resource management, conservation, distribution, treatment, collection, recycle, and disposal operations
- Perform tasks in connection with the operation, control, and maintenance of water and sanitation systems
- Utilize analytical skills as decision-making tools in the evaluation of unit water processes as well as overall utility performance
- Demonstrate effective oral and written communication skills and apply these tools in a regulatory context (i.e. public health protection)
- Have knowledge of relevant equipment, policies, procedures and strategies to promote effective local, state, or national security operations in water resource management

Water Use Specialist Certificate of Completion

This noncredit Water Use Specialist Certificate is designed to prepare students with the necessary knowledge and skills to obtain entry-level employment as a water use efficiency practitioner. Note: The Water Use Specialist Certificate is not equivalent to the certification issued by the American Water Work Association (AWWA) in water use efficiency.

Code	Title	Units
Required Courses		
CIT 601	Introduction to Basic Computer Skills	24-27
VOCED 631	Fundamentals of Business English	32-36
WST 629	Introduction to Water Supply Technology	4-8
WST 631	Introduction to Water Use Efficiency	32-36
WST 652	Basic Waterworks Math Test Preparation	16-32
Total Hours		108-139

Program Learning Outcomes

At the completion of this program, students will be able to:

- Have knowledge of fundamental aspects of water resource management, conservation, distribution, treatment, collection, recycle, and disposal operations
- Perform tasks in connection with the operation, control, and maintenance of water and sanitation systems
- Demonstrate effective oral and written communication skills and apply these tools in a regulatory context (i.e. the public health protection)

Welding Technology

The Welding Technology program prepares men and women for employment in welding occupations and occupations where welding is required. Our program provides students with an understanding of the welding industry's requirements for employment, and helps them to acquire entry-level job skills. Hands-on experience is emphasized in addition to a strong background in theory. Courses are held in two well-equipped welding labs. Upon successful completion of the program, a student will be able to weld with SMAW, FCAW, GMAW, GTAW, OAW and OFC in all positions with a variety of metals and alloys. The student will be able to certify in one or more of the following codes: API, AWS, and ASME depending on the individual skills. We also offer classes to become a Certified Welding Inspector.

Contact Information

Division: Applied Technology, Transportation, and Culinary Arts (T - 108)

Division Phone Number: (909) 384-4451

Faculty Chairs: Bryce Cacho (bcacho@sbccd.edu), M.A. and Joshua Milligan (jmilligan@sbccd.edu), A.S.

-
- Welding Technology Associate of Science Degree (p. 296)
 - Flux Cored Arc Welding (FCAW) Certificate of Achievement (p. 294)
 - Gas Metal Arc Welding (GMAW) Certificate of Achievement (p. 294)
 - Gas Tungsten Arc Welding (GTAW) Certificate of Achievement (p. 294)
 - Pipe Welding Certificate of Achievement (p. 295)
 - Shielded Metal Arc Welding (SMAW) Certificate of Achievement (p. 295)
 - Welding Inspection Technology Certificate of Achievement (p. 295)
 - Welding Job Readiness Certificate of Completion (p. 296)
 - Welding Technology Certificate of Achievement (p. 297)

WELD 010 2 Units

Introduction to Welding

Lecture: 18 contact hours

Lab: 54 contact hours

This is an introductory course for students in any field that utilizes welding processes. Emphasis will be on Welding Safety, Thermal cutting, Gas Metal Arc Welding, and Shielded Metal Arc Welding in flat and horizontal positions.

Associate Degree Applicable

WELD 012 2 Units

Oxy-Fuel Welding

Lecture: 18 contact hours

Lab: 54 contact hours

This course provides entry-level training in oxy-acetylene welding, oxy-fuel cutting and oxy-fuel brazing.

Associate Degree Applicable

WELD 015 3 Units

Gas Tungsten Arc Welding - Beginning

Lecture: 18 contact hours

Lab: 108 contact hours

Prerequisite: WELD 012

This is an introductory course in the Gas Tungsten Arc Welding (GTAW) or Tungsten Inert Gas (TIG) welding process. Welding safety, equipment, and joint construction on mild steel are stressed.

Associate Degree Applicable

WELD 016 4 Units

Gas Tungsten Arc Welding - Intermediate

Lecture: 18 contact hours

Lab: 162 contact hours

Prerequisite: WELD 015

This is an intermediate level course in the Gas Tungsten Arc Welding (GTAW) process that focuses on carbon steel, stainless steel, and aluminum. Welding safety, equipment, basic welding-joint design, expansion, contraction, and residual stress in welding of metals are also covered.

Associate Degree Applicable

WELD 017 3 Units

Gas Tungsten Arc Welding - Advanced

Lab: 162 contact hours

Prerequisite: WELD 016

This is an advanced course in GTAW that introduces basic theory and application of pipe welding. Pipe weld-joint design, pre-weld fit up, basic metallurgy, weld symbols, and related codes and standards are emphasized. This course develops gas tungsten arc welding skills on pipe in 1G, 2G, 5G, and 6G as well as welding safety, equipment, basic welding-joint design, expansion, contraction, and residual stress in welding of metals.

Associate Degree Applicable

WELD 027 3 Units

Inspection of Welds: Destructive Testing

Lecture: 36 contact hours

Lab: 54 contact hours

Prerequisite: WELD 010 or WELD 012

Advisory: TECALC 087 and READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course covers basic metallurgy and destructive tests commonly used to determine the physical properties of a weld. Destructive tests include: bend tests, nick break tests, tensile tests, hardness tests, fatigue tests, and impact tests.

Associate Degree Applicable

WELD 028 3 Units

Inspection of Welds: Non-Destructive Examination

Lecture: 36 contact hours

Lab: 54 contact hours

Prerequisite: WELD 010 or WELD 012

Advisory: TECALC 087 and READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course covers non-destructive examination techniques used to determine the soundness of welds and their fitness for service. It includes visual examination, dye penetrant testing, magnetic particle testing, and ultrasonic testing.

Associate Degree Applicable

WELD 045 3 Units**Shielded Metal Arc Welding - Beginning****Lecture:** 18 contact hours**Lab:** 108 contact hours**Prerequisite/Corequisite:** WELD 010

This is an introductory course in the Shielded Metal Arc Welding (SMAW) process often referred to as stick welding or arc welding. Welding safety, equipment and joint construction on mild steel are stressed.

Associate Degree Applicable**WELD 046 4 Units****Shielded Metal Arc Welding - Intermediate****Lecture:** 18 contact hours**Lab:** 162 contact hours**Prerequisite:** WELD 045

This is an intermediate course in the Shielded Metal Arc Welding (SMAW) process. Vertical and overhead groove welds and the lab portion of the structural weld certification for the City of Los Angeles are stressed.

Associate Degree Applicable**WELD 047 3 Units****Preparation for Shielded Metal Arc Welding (SMAW) Pipe****Lecture:** 18 contact hours**Lab:** 108 contact hours**Prerequisite:** WELD 046

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This is an advanced course in the Shielded Metal Arc Welding (SMAW) process that prepares students for pipe welding. Emphasis will be on open root groove welds in all positions. Root passes will be welded with E6010 and fill/covers with E7018.

Associate Degree Applicable**WELD 048 4 Units****Shielded Metal Arc Welding (SMAW) - Pipe****Lecture:** 18 contact hours**Lab:** 162 contact hours**Prerequisite:** WELD 047**Advisory:** TECALC 087

This is an advanced course covering Shielded Metal Arc Welding (SMAW) on pipe. American Welding Society (AWS) and American Petroleum Institute (API) standards will be covered. Focus will be on 5G and 6G welding positions.

Associate Degree Applicable**WELD 055 4 Units****Rigging****Lecture:** 54 contact hours**Lab:** 54 contact hours

The course is a comprehensive study of material handling and rigging.

Associate Degree Applicable**WELD 060 4 Units****Fabrication and Layout - Beginning****Lecture:** 36 contact hours**Lab:** 108 contact hours**Prerequisite:** WELD 010

This course is designed to provide the training needed to read blueprints, create shop drawings, and fabricate and assemble parts.

Associate Degree Applicable**WELD 061 3 Units****Layout Fitter II****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** WELD 060

This course is designed to provide the intermediate to advanced welding student with the skills needed by craftsmen in the fabrication industry. Topics include properties of structural steel; fitting up; plate and pipe.

Associate Degree Applicable**WELD 065 4 Units****Welding Inspection Visual - AWS-CWI****Lecture:** 72 contact hours

Advisory: WELD 028 and READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is designed to prepare students for the Certified Welding Inspector (CWI) examination offered by the American Welding Society (AWS). Focus is placed on visual inspection, terms and definitions, welding symbols, welding processes, welding procedures, code specifications, materials and their limitations, weld testing, record keeping, report preparations, certifications, and responsibilities of a CWI.

Associate Degree Applicable**WELD 066 3 Units****Preparation for Los Angeles City Welding Certification - Structural (AWS D1.1)****Lecture:** 54 contact hours**Prerequisite:** WELD 045**Corequisite:** WELD 046

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course prepares students for the written Structural Steel examination offered by the City of Los Angeles Department of Building and Safety (LADBS) with a focus on the American Welding Society (AWS) D1.1 structural welding code.

Associate Degree Applicable**WELD 067 2 Units****Structural Steel Special Inspection (ICC)****Lecture:** 36 contact hours

Advisory: WELD 060 and READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is designed to prepare students for the structural steel special inspection examinations offered by the International Code Council (ICC). Topics include a review of the technical aspects on inspection and quality control in the area of structural steel, welding preparation, materials applications, plan reading, related codes, and report writing.

Associate Degree Applicable**WELD 068 3 Units****Preparation for Los Angeles City Welder Certification - Reinforced Steel and Light Gauge Steel****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** WELD 066

This class prepares students for the City of Los Angeles Department of Building and Safety (LADBS) Reinforced Steel and Light Gauge Steel written and performance qualification examinations with emphasis on the American Welding Society (AWS) D1.3 and AWS D1.4 Welding Codes.

Associate Degree Applicable

WELD 077 3 Units**Introduction to Continuous Wire Welding****Lecture:** 18 contact hours**Lab:** 108 contact hours**Prerequisite:** WELD 010

This course covers techniques and methods of Gas Metal Arc Welding (GMAW) and Flux-cored Arc Welding (FCAW) in all positions and on various thicknesses of mild steel. Fulfills American Welding Society SENSE Level 1 – Entry Welder Certification Modules 5: Gas Metal Arc Welding (GMAW-S, GMAW Spray Transfer) and 6: Flux Cored Arc Welding (FCAW-G/GM, FCAW-S).

Associate Degree Applicable**WELD 080 3 Units****Gas Metal Arc Welding - Beginning****Lecture:** 18 contact hours**Lab:** 108 contact hours**Prerequisite:** WELD 010

This course introduces techniques and methods of Gas Metal Arc Welding (GMAW-S, GMAW Spray Transfer) in all positions and on various thicknesses of mild steel.

Associate Degree Applicable**WELD 081 4 Units****Gas Metal Arc Welding - Intermediate****Lecture:** 18 contact hours**Lab:** 162 contact hours**Prerequisite:** WELD 080

This is the study of intermediate techniques and methods of Gas Metal Arc Welding (GMAW) and Metal-Cored Arc Welding (MCAW) in all positions and on various thicknesses of mild steel and aluminum.

Associate Degree Applicable**WELD 082 3 Units****Gas Metal Arc Welding - Advanced****Lab:** 162 contact hours**Prerequisite:** WELD 081

This is an advanced course in Gas Metal Arc Welding (GMAW) that introduces basic theory and application of pipe welding. Pipe weld-joint design, pre-weld fit up, basic metallurgy, weld symbols, and related codes and standards are emphasized. The course develops Gas Metal Arc Welding (GMAW) skills on pipe in 1G, 2G, 5G, and 6G as well as welding safety, equipment, basic welding-joint design, expansion, contraction, and residual stress in welding of metals.

Associate Degree Applicable**WELD 090 4 Units****Flux Cored Arc Welding - Gas Shielded****Lecture:** 18 contact hours**Lab:** 168 contact hours**Prerequisite:** WELD 010

This course introduces techniques and methods of Flux Cored Arc Welding-Gas shielded (FCAW-G) in all positions and on various thicknesses of carbon steel.

Associate Degree Applicable**WELD 091 4 Units****Flux Cored Arc Welding - Self Shielded****Lecture:** 18 contact hours**Lab:** 162 contact hours**Prerequisite:** WELD 010**Advisory:** WELD 090

This course introduces techniques and methods of Flux Cored Arc Welding-Self shielded (FCAW-S) in all positions and on various thicknesses of carbon steel.

Associate Degree Applicable**WELD 092 3 Units****Flux Cored Arc Welding - Advanced****Lab:** 162 contact hours**Prerequisite:** WELD 090 or WELD 091

This is an advanced course in Flux Cored Arc Welding (FCAW) that introduces basic theory and application of pipe welding. Pipe weld-joint design, pre-weld fit up, basic metallurgy, weld symbols, and related codes and standards are emphasized. The course develops Flux Cored Arc Welding skills on pipe in 1G, 2G, 5G, and 6G as well as welding safety, equipment, basic welding-joint design, expansion, contraction, and residual stress in welding of metals.

Associate Degree Applicable**WELD 098 1-4 Units****Welding Work Experience****WRKEX:** 300 contact hours

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable**WELD 099 1-3 Units****Independent Study in Welding Technology****DIR:** 18 contact hours

Students with previous course work in Welding Technology may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of Welding Technology. Prior to registration, a written contract must be prepared jointly by the instructor and the student. See instructor for details.

Associate Degree Applicable**WELD 645 Noncredit****Shielded Metal Arc Welding - Beginning****Lecture:** 18 contact hours**Lab:** 108 contact hours

This is a noncredit introductory course in the Shielded Metal Arc Welding (SMAW) process often referred to as stick welding or arc welding. Welding safety, equipment and joint construction on mild steel are stressed.

WELD 646 Noncredit**Shielded Metal Arc Welding - Intermediate****Lecture:** 18 contact hours**Lab:** 162 contact hours**Prerequisite:** WELD 645

This is an intermediate noncredit course in the Shielded Metal Arc Welding (SMAW) process. Vertical and overhead groove welds and the lab portion of the structural weld certification for the City of Los Angeles are stressed.

WELD 660 Noncredit**Fabrication and Layout - Beginning****Lecture:** 36 contact hours**Lab:** 108 contact hours

This noncredit course is designed to provide the training needed to read blueprints, create shop drawings, and fabricate and assemble parts.

WELD 666 Noncredit**Preparation for Los Angeles City Welding Certification - Structural (AWS D1.1)****Lecture:** 54 contact hours

This noncredit course prepares students for the written Structural Steel examination offered by the City of Los Angeles Department of Building and Safety (LADBS) with a focus on the American Welding Society (AWS) D1.1 structural welding code.

WELD 680 Noncredit**Gas Metal Arc Welding - Beginning****Lecture:** 18 contact hours**Lab:** 108 contact hours

This noncredit course introduces techniques and methods of Gas Metal Arc Welding (GMAW-S, GMAW Spray Transfer) in all positions and on various thicknesses of mild steel.

WELD 681 Noncredit**Gas Metal Arc Welding - Intermediate****Lecture:** 18 contact hours**Lab:** 162 contact hours**Prerequisite:** WELD 680

This noncredit course is the study of intermediate techniques and methods of Gas Metal Arc Welding (GMAW) and Metal-Cored Arc Welding (MCAW) in all positions and on various thicknesses of mild steel and aluminum.

WELD 690 Noncredit**Flux Cored Arc Welding - Gas Shielded****Lecture:** 18 contact hours**Lab:** 162 contact hours

This noncredit course introduces techniques and methods of Flux Cored Arc Welding- Gas shielded (FCAW-G) in all positions and on various thicknesses of carbon steel.

WELD 691 Noncredit**Flux Cored Arc Welding - Self Shielded****Lecture:** 18 contact hours**Lab:** 162 contact hours**Prerequisite:** WELD 690

This noncredit course introduces techniques and methods of Flux Cored Arc Welding- Self shielded (FCAW-S) in all positions and on various thicknesses of carbon steel.

Flux Cored Arc Welding (FCAW) Certificate of Achievement

This certificate is designed to provide students with training in Flux Cored Arc Welding (FCAW-G and FCAW-S). This is the semi-automatic welding process often used to replace Shielded Metal Arc Welding (SMAW) in many industrial applications. Industry certifications are stressed.

Code	Title	Units
Required Courses		
WELD 010	Introduction to Welding	2
WELD 090	Flux Cored Arc Welding - Gas Shielded	4
WELD 091	Flux Cored Arc Welding - Self Shielded	4

WELD 092	Flux Cored Arc Welding - Advanced	3
Total Units		13

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

Program Learning Outcomes

At the completion of this program, students will be able to:

- Show an understanding of the safety precautions for working in a welding lab and demonstrate an awareness of the importance of safety in welding
- Use tools related to the welding industries
- Read and interpret prints and shop drawings to produce quality welds
- Read and understand Welder Procedure Specification to produce quality welds
- Fabricate and layout parts that meet quality standard
- Pass a Welder Performance Qualification Test that meets the standard of acceptability to pass a National Standard

Gas Metal Arc Welding (GMAW) Certificate of Achievement

This certificate is designed to provide students with training in Gas Metal Arc Welding (GMAW). Metals will include Steel and Aluminum. Industry Certifications for both plate and pipe will be stressed.

Code	Title	Units
Required Courses		
WELD 010	Introduction to Welding	2
WELD 080	Gas Metal Arc Welding - Beginning	3
WELD 081	Gas Metal Arc Welding - Intermediate	4
WELD 082	Gas Metal Arc Welding - Advanced	3
Total Units		12

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

Program Learning Outcomes

At the completion of this program, students will be able to:

- Show an understanding of the safety precautions for working in a welding lab and demonstrate an awareness of the importance of safety in welding
- Use tools related to the welding industries
- Read and interpret prints and shop drawings to produce quality welds
- Read and understand Welder Procedure Specification to produce quality welds
- Fabricate and layout parts that meet quality standard
- Pass a Welder Performance Qualification Test that meets the standard of acceptability to pass a National Standard

Gas Tungsten Arc Welding (GTAW) Certificate of Achievement

This certificate is designed to provide students with training in Gas Tungsten Arc Welding (GTAW). GTAW is commonly known as TIG (Tungsten

Inert Gas Welding). Students will work with Steel, Stainless Steel and Aluminum in both plate and pipe applications. Industry Certifications are stressed.

Code	Title	Units
Required Courses		
WELD 012	Oxy-Fuel Welding	2
WELD 015	Gas Tungsten Arc Welding - Beginning	3
WELD 016	Gas Tungsten Arc Welding - Intermediate	4
WELD 017	Gas Tungsten Arc Welding - Advanced	3
Total Units		12

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

Program Learning Outcomes

At the completion of this program, students will be able to:

- Show an understanding of the safety precautions for working in a welding lab and demonstrate an awareness of the importance of safety in welding
- Use tools related to the welding industries
- Read and interpret prints and shop drawings to produce quality welds
- Read and understand Welder Procedure Specification to produce quality welds
- Fabricate and layout parts that meet quality standard
- Pass a Welder Performance Qualification Test that meets the standard of acceptability to pass a National Standard

Pipe Welding Certificate of Achievement

This certificate will give students an introduction into pipe welding with all of the four major welding processes used in the industry. These include SMAW, GMAW, FCAW-G, FCAW-S, and GTAW.

Code	Title	Units
Required Courses		
WELD 017	Gas Tungsten Arc Welding - Advanced	3
WELD 047	Preparation for Shielded Metal Arc Welding (SMAW) Pipe	3
WELD 048	Shielded Metal Arc Welding (SMAW) - Pipe	4
WELD 082	Gas Metal Arc Welding - Advanced	3
WELD 092	Flux Cored Arc Welding - Advanced	3
Total Units		16

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Show an understanding of the safety precautions for working in a welding lab and demonstrate an awareness of the importance of safety in welding
- Use tools related to the welding industries

- Read and interpret prints and shop drawings to produce quality welds
- Read and understand Welder Procedure Specification to produce quality welds
- Fabricate and layout parts that meet quality standards
- Pass a Welder Performance Qualification Test that meets the standard of acceptability to a National Standard

Shielded Metal Arc Welding (SMAW) Certificate of Achievement

This certificate is designed to train students in the use of Shielded Metal Arc Welding (SMAW) often known as Arc or Stick Welding. Electrode identification, welding symbols, and joint design are stressed. Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

Students must complete **all** the **required courses** plus pass the SMAW Welding Certification either through the City of San Bernardino or Los Angeles. The practical welding certification test for both cities is administered by SBVC Welding Department.

Code	Title	Units
Required Courses		
WELD 012	Oxy-Fuel Welding	2
WELD 045	Shielded Metal Arc Welding - Beginning	3
WELD 046	Shielded Metal Arc Welding - Intermediate	4
WELD 066	Preparation for Los Angeles City Welding Welding Certification - Structural (AWS D1.1)	3
Total Units		12

Students completing all course work but not finishing the SMAW Certification may proceed to the next certificate. In order to be awarded the certificate, both course work and certification must be completed.

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

Program Learning Outcomes

At the completion of this program, students will be able to:

- Show an understanding of the safety precautions for working in a welding lab and demonstrate an awareness of the importance of safety in welding
- Read and understand Welding Procedure Specifications to produce quality welds
- Pass a Welder Performance Qualification Test with the SMAW process that meets the standard of acceptability for the City of Los Angeles Department of Building and Safety

Welding Inspection Technology Certificate of Achievement

This certificate is designed to prepare students for the American Welding Society (AWS) and/or International Code Council (ICC) Welding Inspector examinations.

Code	Title	Units
Required Courses		
WELD 010	Introduction to Welding	2

WELD 027	Inspection of Welds: Destructive Testing	3
WELD 028	Inspection of Welds: Non-Destructive Examination	3
WELD 045	Shielded Metal Arc Welding - Beginning	3
WELD 060	Fabrication and Layout - Beginning	4
WELD 065	Welding Inspection Visual - AWS-CWI	4
WELD 067	Structural Steel Special Inspection (ICC)	2
Total Units		21

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Show an understanding of the general breadth of knowledge required to pass the AWS certified welding inspector (CWI) examination
- Show an understanding of the general breadth of knowledge required to pass the ICC welding inspector examination
- Perform visual inspection of welds to AWS standards

Welding Job Readiness Certificate of Completion

This noncredit certificate is designed to complement the credit degree and certificates in the welding technology program by providing continuing education and practice for anyone in the welding industry. Focus is on Industry recognized welding certifications with the Shielded Metal Arc Welding (SMAW), Flux Cored Arc Welding (FCAW) and Gas Metal Arc Welding (GMAW) processes.

Code	Title	Units
Required Courses		
WELD 645	Shielded Metal Arc Welding - Beginning	112-126
WELD 646	Shielded Metal Arc Welding - Intermediate	160-180
WELD 660	Fabrication and Layout - Beginning	128-144
WELD 666	Preparation for Los Angeles City Welding Certification - Structural (AWS D1.1)	48-54
WELD 680	Gas Metal Arc Welding - Beginning	112-126
WELD 681	Gas Metal Arc Welding - Intermediate	160-180
WELD 690	Flux Cored Arc Welding - Gas Shielded	160-180
WELD 691	Flux Cored Arc Welding - Self Shielded	160-180
Total Hours		1040-1170

Program Learning Outcomes

At the completion of this program, students will be able to:

- Show an understanding of the safety precautions for working in a welding lab and demonstrate an awareness of the importance of safety in welding
- Use tools related to the welding industries
- Read and interpret prints and shop drawings to produce quality welds
- Read and understand Welding Procedure Specifications to produce quality welds

- Pass a Welder Performance Qualification Test that meets the standard of acceptability to a National Standard

Welding Technology Associate of Science Degree

This degree is designed to provide students with an understanding of the terminology, concepts, procedures and skills used in the welding field to equip them with the fundamental skills necessary for entry- and intermediate-level employment as a combination welder. To graduate with a specialization in Welding Technology, students must complete the following required courses for the certificate plus the general breadth requirements for the Associate of Science Degree (minimum total = 60 units).

Code	Title	Units
Required Courses		
WELD 010	Introduction to Welding	2
WELD 012	Oxy-Fuel Welding	2
WELD 015	Gas Tungsten Arc Welding - Beginning	3
WELD 016	Gas Tungsten Arc Welding - Intermediate	4
WELD 027	Inspection of Welds: Destructive Testing	3
or WELD 028	Inspection of Welds: Non-Destructive Examination	
WELD 045	Shielded Metal Arc Welding - Beginning	3
WELD 046	Shielded Metal Arc Welding - Intermediate	4
WELD 060	Fabrication and Layout - Beginning	4
WELD 066	Preparation for Los Angeles City Welding Welding Certification - Structural (AWS D1.1)	3
WELD 080	Gas Metal Arc Welding - Beginning	3
WELD 081	Gas Metal Arc Welding - Intermediate	4
WELD 090	Flux Cored Arc Welding - Gas Shielded	4
WELD 091	Flux Cored Arc Welding - Self Shielded	4
TECALC 087	Technical Calculations	4
Total Units		47

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Show an understanding of the safety precautions for working in a welding lab and demonstrate an awareness of the importance of safety in welding
- Use tools related to the welding industries
- Read and interpret prints and shop drawings to produce quality welds
- Read and understand Welding Procedure Specifications to produce quality welds
- Fabricate and layout parts that meet quality standards

- Determine the causes of a weld failure using the knowledge and skills developed in destructive testing and correctly develop a new welding procedure that meets AWS code requirements for structural steel
- Perform visual inspection on weld specimens along with dye penetrant, magnetic particle and ultrasonic examination. Students must also be able to write a clear and concise reports describing what type of weld discontinuity and reference it to a specific welding code
- Pass a Welder Performance Qualification Test that meets the standard of acceptability to a National Standard

- Perform visual inspection on weld specimens along with dye penetrant, magnetic particle and ultrasonic examination. Students must also be able to write a clear and concise reports describing what type of weld discontinuity and reference it to a specific welding code
- Pass a Welder Performance Qualification Test that meets the standard of acceptability to a National Standard

Welding Technology Certificate of Achievement

This certificate is designed to provide students with an understanding of the terminology, concepts, procedures and skills used in the welding field to equip them with the fundamental skills necessary for entry- and intermediate-level employment as a combination welder.

Code	Title	Units
Required Courses		
WELD 010	Introduction to Welding	2
WELD 012	Oxy-Fuel Welding	2
WELD 015	Gas Tungsten Arc Welding - Beginning	3
WELD 016	Gas Tungsten Arc Welding - Intermediate	4
WELD 027 or WELD 028	Inspection of Welds: Destructive Testing Inspection of Welds: Non-Destructive Examination	3
WELD 045	Shielded Metal Arc Welding - Beginning	3
WELD 046	Shielded Metal Arc Welding - Intermediate	4
WELD 060	Fabrication and Layout - Beginning	4
WELD 066	Preparation for Los Angeles City Welding Welding Certification - Structural (AWS D1.1)	3
WELD 080	Gas Metal Arc Welding - Beginning	3
WELD 081	Gas Metal Arc Welding - Intermediate	4
WELD 090	Flux Cored Arc Welding - Gas Shielded	4
WELD 091	Flux Cored Arc Welding - Self Shielded	4
TECALC 087	Technical Calculations	4
Total Units		47

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Show an understanding of the safety precautions for working in a welding lab and demonstrate an awareness of the importance of safety in welding
- Use tools related to the welding industries
- Read and interpret prints and shop drawings to produce quality welds
- Read and understand Welding Procedure Specifications to produce quality welds
- Fabricate and layout parts that meet quality standards
- Determine the causes of a weld failure using the knowledge and skills developed in destructive testing and correctly develop a new welding procedure that meets AWS code requirements for structural steel

Work Experience Occupational Cooperative Work Experience

Work experience education credit can be earned in each of the occupational disciplines. (See appropriate program area under course number 098 or 198 for specific information.)

Cooperative Work Experience

The concept of issuing college credit for work experience is based on the premise that a student with well-defined job-oriented objectives will find his/her work an educational experience. To be effective it must be approached cooperatively and with enthusiasm by the student, the employer, and the college coordinator. The student will gain college credit, a new appreciation of the responsibilities he/she has to his/her employer, greater awareness and improved job skills.

There are two classifications of Cooperative Work Experience Education at San Bernardino Valley College.

- In *Occupational Cooperative Work Experience*, students may earn four units per semester for a maximum of sixteen units.
- In *General Cooperative Work Experience* students may earn three units per semester with a maximum of six allowable during their college career; and they need not be enrolled in a related course. Seventy-five hours of paid work experience (or 60 hours volunteer work) equal one unit of college credit.

San Bernardino Valley College offers two formats for Cooperative Work Experience:

- In *Parallel Format*, students take a Cooperative Work Experience class concurrently with other college courses.
- In *Alternate Format* students alternate between taking a Cooperative Work Experience class one semester and other college courses the previous and/or following semesters.

Units earned through Work Experience do not apply toward units in a major unless such courses are specifically required for a degree in that department. However, course credit earned through work experience can apply as elective units in any associate degree. Refer to the specific department section of this catalog for a list of specific courses required for a major. **For information on a specific discipline, contact the department or the division office.**

Contact Information

Division: Academic Success and Learning Services (LIB - 123)

Division Phone Number: (909) 384-8649

Faculty Chair: Ginny Evans-Perry (gperry@sbccd.edu), M.L.I.S.

WKEXP 099 1-4 Units

General Work Experience

WRKEX: 300 contact hours

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable

ADMINISTRATION AND FACULTY

- Administration (p. 299)
- Administrative Emeriti (p. 300)
- Faculty (p. 300)
- Faculty / Professor Emeriti (p. 308)

Administration

Bratulin, Paul

Campus Director, Marketing, Creative Services, and Public Affairs

B.A., University of North Florida

Brunson, Jr. Larry W.

Director, Disabled Student Programs and Services

M.S., National University

B.A., California State University, Long Beach

Camacho, Albert

Supervisor, Custodial

Carlos, Raymond

Director, Student Life

Ed.D., University of Southern California

M.A., Indiana State University

B.A., California State University, Fullerton

Cota, Marco

Dean, Counseling and Matriculation

M.A., California State University, San Bernardino

B.A., California State University, San Bernardino

A.A., College of the Desert

Dale-Carter, April

Director, Admissions and Records

M.B.A., University of La Verne

B.S., DeVry University, Long Beach

Dennis, Paul

Director, Police Academy

M.A., Azusa Pacific University

B.A., Azusa Pacific University

Diaz, Emma

Director, Adult Education Block Grant (Inland Adult Education Consortium)

Ed.D., University of Southern California

M.A., University of Phoenix

B.S., California State University, Northridge

Grishow, Kevin

Supervisor, Maintenance and Grounds

Hastings, Ron

Director, Library and Learning Support Services

M.L.S., University of Arizona

M.F.A., University of California, Irvine

B.A., University of California, Riverside

Hector, Leticia

Interim Dean, Arts and Humanities

M.A., California State University, Fullerton

B.A., California State University, Fullerton

A.A., Mt. San Antonio College

Hinojosa, Joanne

Director, EOPS/CARE Program

M.S.W., Azusa Pacific University

B.A., California State University, Chico

A.A., Citrus College

Hrdlicka, Rick

Director, Computer Technology Services

M.A., California State University San Bernardino

B.S., California State University San Bernardino

A.A., San Bernardino Valley College

Humble, Dina

Vice President, Instruction

Ed.D., Capella University

M.M.E., University of Northern Colorado

B.M., University of Minnesota

Jenkins, Robert

Director, Facilities, Maintenance and Operations

M.P.A., Brigham Young University

B.S., University of Utah

A.S., Southwestern Community College

Johnson, Wallace

Dean, Social Sciences, Human Development, and Physical Education

Ed.D., University of Texas, Austin

M.A., University of California, Riverside

M.A., California State University, San Bernardino

B.A., University of California, Riverside

Kalantarov, Dmitriy

Dean, Science

Ph.D., Stevens Institute of Technology

M.E., Stevens Institute of Technology

M.B.A., Fairleigh Dickinson University

M.S.E.E., Fairleigh Dickinson University

B.S.E.E., Fairleigh Dickinson University

Layne, Michael

Interim Director, SBVC Foundation

M.A., University of Alaska Southeast

B.A., St. John's College

Lewis, Stephanie

Dean, Mathematics, Business, and Computer Technology

Ph.D., University of California, Riverside

Ed.S., Wayne State University

M.A., Alabama State University, Montgomery

B.A., Michigan State University, E. Lansing

Massad, Sana

Interim Assistant Dean of Health Sciences and Director of Nursing, Nursing

M.S.N., George Mason University

B.S.N., University of Jordan

Merjil, Mark

Director, Child Development Center

M.A., University of La Verne

B.A., Pacific Oaks College

A.A., Rio Hondo College

Morden, Erik**Manager, Food Services**

M.P.A., California State University, San Bernardino

B.A., California State University, Fullerton

A.A., San Bernardino Valley College

Oxendine, Joanna**Interim Director, Grants Development and Administration**

M.Ed., University of North Carolina, Chapel Hill

B.A., University of North Carolina, Chapel Hill

Quach, Patricia**Dean, Academic Success and Learning Services**

M.Ed., University of La Verne

B.A., California Polytechnic University, Pomona

Quach, Patricia**Interim Dean, Applied Technology, Transportation, and Culinary Arts**

M.Ed., University of La Verne

B.A., California Polytechnic University, Pomona

Rodriguez, Diana Z.**President**

M.B.A., California State University, San Bernardino

M.A., California State University, San Bernardino

A.A., Palo Verde College

Rodriguez, Maria Del Carmen**Dean, Student Equity and Success**

M.A., California State University, San Bernardino

B.A., California State University, San Bernardino

Rubio, David**Director, Athletics**

M.A., Azusa Pacific University

B.A., California State University, San Bernardino

Simental, Yolanda**Acting Associate Director of Nursing**

M.S.N., California State University, San Bernardino

B.S.N., California State University, San Bernardino

A.A., San Bernardino Valley College

Smith, James**Dean, Research, Planning and Institutional Effectiveness**

Ph.D., University of California, Irvine

M.A., University of California, Irvine

M.A., California State University, Dominguez Hills

B.A., California State University, Dominguez Hills

B.A., California State University, Dominguez Hills

Stark, Scott**Vice President, Administrative Services**

B.S., Chapman University

Thayer, Scott**Vice President, Student Services**

Ed.D., University of Southern California

M.A., Point Loma Nazarene University

B.A., Rollins College

A.A., Normandale Community College

Tillman, Shalita**Manager, CalWORKS and Workforce Development**

M.A., Pacific Oaks College

B.S., Azusa Pacific University

Trejo, Samuel**Director, Financial Aid**

B.A., California State University, San Bernardino

A.A., Chaffey Community College

Williams, Sharaf**Director, First Year Experience**

M.Ed., University of Nevada, Las Vegas

B.S., St. Joseph's University

Administrative Emeriti

Bancroft, John Assistant Dean, Student Development**Jensen, Arthur M.** President**Pszczola, Lorraine A.** Administrative Dean, Student Affairs**Russell, Lionel H.** Director of Counseling**Singer, Donald L.** President

Faculty

The dates in parentheses indicate the year of appointment to the San Bernardino Community College District

A

Ababat, Anthony (2016)**Assistant Professor, Electricity/Electronics**

B.S., Cebu Institute of Technology University

Adams, Kathryn (1997)**Professor, Child Development**

M.S., University of La Verne

B.S., California State University, Fullerton

A.A., Citrus College

Adler, Dawn (1997)**Associate Professor, Physical Education**

M.S., University of Utah

B.S., University of Utah

Aguilar-Kitibutr, Ailsa (1989)**Counselor, Professor, General Counseling**

Psy.D., University of La Verne

M.S., University of La Verne

M.A., Ateneo University

B.S., University of Santo Tomas

Akers, Elaine (2004)**Coordinator, Student Health Services**

D.N.P., Case Western Reserve University

M.S.N., San Jose State University

B.S.N., University of the State of New York

A.D.N., Mt. Hood Community College

Al-Husseini, Maha (2001)**Associate Professor, Computer Information Technology**

M.A., Central Michigan University

B.A., Kuwait University

Alfano-Wyatt, Marcia T. (1997)

Professor, Psychiatric Technology

M.A., Pepperdine University, Irvine
B.A., Wayne State University, Detroit

Algattas, Daniel (2017)**Instructor, Head Football Coach, Kinesiology**

M.A., New Mexico Highlands University
B.A., California State University, Los Angeles

Allen, Tammy Brown (2015)**Assistant Professor, Reading and Study Skills**

Ed.D., University of Southern California
M.S., California State University, Fullerton
B.S., Azusa Pacific University

Alvarez, Vicente (2009)**Assistant Professor, Mathematics**

Ph.D., University of California, Riverside
M.S., University of California, Riverside
B.S., University of California, Riverside

Anemelu, Victoria (2006)**Associate Professor, Mathematics**

Ph.D., University of Nigeria
M.Ed., University of Nigeria
B.Sc., University of Nigeria

Assumma, Michael J. (2002)**Assistant Professor, Business**

M.B.A., California State University, San Bernardino
B.S., California Polytechnic University, Pomona

Avelar, Amy (2009)**Associate Professor, Chemistry**

Ph.D., University of California, Riverside
M.S., University of California, Riverside
B.S., University of California, Riverside
A.A., San Bernardino Valley College

B**Babin, Daniel (2018)****Instructor, Culinary Arts**

M.B.A., California State University, Dominguez Hills
B.A., Colorado Technical University
A.A., Le Cordon Bleu

Banola, Erwin (John) (2009)**Assistant Professor, Physical Education**

M.S., California State University, Northridge
B.A., California State University, Northridge
A.S., Pierce College

Banuelos, Elizabeth (2016)**Counselor, Instructor, General Counseling and Puente**

M.S., University of Redlands
B.A., University of California, Riverside
A.A., San Bernardino Valley College

Barnett, Kellie (2004)**Professor, Child Development**

M.S., University of La Verne
B.S., California State University, San Diego

Bastedo, David (1992)**Professor, Biology**

M.S., Chapman University
M.A., University of Redlands

Batalo, Mandi (2006)**Professor, Art**

Ed.D., Fielding Graduate University
M.A., California Polytechnic University, Pomona
B.A., California State University, San Bernardino

Beebe, Yvonne (1999)**Associate Professor, Mathematics**

M.S., University of California, Riverside
B.S., University of California, Riverside

Begg, Erica (2020)**Counselor, Instructor, General Counseling**

M.S., University of La Verne
B.A., University of California, Riverside

Bjerke, Jennifer (2016)**Assistant Professor, Geography**

M.A., Rutgers, the State University of New Jersey
B.S., California State Polytechnic University, Pomona
A.A., College of the Sequoias

Blacksher, Anthony (2016)**Assistant Professor, Sociology**

Ph.D., Claremont Graduate University
M.A., California State University, San Marcos
B.A., California State University, San Marcos

Blecka, Lori Ann (1991)**Associate Professor, Mathematics**

M.S., University of California, Riverside
B.S., University of California, Riverside

Brewer, Quincy (2007)**Assistant Professor, Head Coach - Men's Basketball, Physical Education**

M.A., University of Phoenix
M.A., Azusa Pacific University
B.A., Arizona State University

Brown, Robert D. (2006)**Professor, English**

Ed.D., Azusa Pacific University
M.A., Pepperdine University
B.A., University of Redlands

Buffong, Keynasia (2016)**Career Counselor, Assistant Professor, Transfer and Career Services**

M.S.W., California State University, San Bernardino
B.A., California State University, San Bernardino
B.A., California State University, San Bernardino
A.A., Riverside City College

Burnham, Lorrie (2011)**Assistant Professor, Biology**

M.S., California Polytechnic University, Pomona
B.S., California State University, San Bernardino
A.A., San Bernardino Valley College

Burns-Peters, Davena (2014)**Assistant Professor, Modern Languages (American Sign Language)**

B.V.E., California State University, San Bernardino

A.S., Riverside City College
A.A., Loma Linda University

C

Cacho, Bryce (2017)

Instructor, Welding Technology

M.A., California State University San Bernardino
B.S., California State University San Bernardino
A.S. Victor Valley Community College

Calderon, Colleen (1995)

Professor, History

M.A., University of California, Riverside
B.A., Macalester College

Caldwell-Betties, Melita (2012)

Assistant Professor, Water Supply Technology

M.P.A., California State University, San Bernardino
B.S., University of Redlands

Carter, Yancie (2015)

Matriculation Coordinator, Counselor, Assistant Professor, General Counseling

M.A., Argosy University
B.A., Roosevelt University
A.A., Southeastern College

Casillas, David (2017)

Instructor, Aeronautics

B.S., Embry-Riddle Aeronautical University
B.A., California State University, San Bernardino
A.A., Chaffey College
A.S., Chaffey College

Castro, Anthony (2015)

Instructor, Mathematics

M.S., University of California, Riverside

Che, Yon (2004)

Assistant Professor, Modern Languages (Spanish)

M.A., University of California, Los Angeles
B.A., University of California, Los Angeles

Chou, Jesse (2019)

Instructor, Computer Science

M.S., University of Massachusetts
B.A., University of Massachusetts

Cisneros, Maribel (2016)

Counselor, Assistant Professor, EOPS/CARE

M.A., University of Redlands
B.A., University of California, Riverside
A.A., Riverside City College

Copeland, Mary (2007)

Associate Professor, English

M.F.A., University of California, Riverside
B.A., California State University, San Bernardino
A.A., Riverside City College
A.S., Riverside City College

Courts, Janet (1995)

Assistant Professor, Accounting

M.B.A., California State University, San Bernardino

C.P.A., California State University, San Bernardino

Croy, Jeremy (2019)

Instructor, Administration of Justice

Ed.D., Concordia University - Chicago
M.S., Michigan State University
B.S., Western Illinois University
A.S., Lake Land College

Cruz, Alexander (2019)

Instructor, Automotive Technology

B.A., Universidad del Sagrado Corazón

Cuny, Lucas (2018)

Instructor, Film, TV, Media

M.F.A., California State University, Fullerton
B.A., Columbia College-Hollywood
B.S., California State University, Dominguez Hills

D

Danley, Jay (2003)

Associate Professor, Communication Studies

M.A., California State University, Long Beach
B.A., California State University, Long Beach
J.D., Western State University
A.A., San Bernardino Valley College

Demsky, Jeffrey (2011)

Associate Professor, Political Science

Ph.D., University of Florida
M.A., American University
B.A., S.U.N.Y. Albany

Dubois-Eastman, Kim (2015)

Assistant Professor, Nursing

M.S.N., Loma Linda University, Loma Linda
C.N.S., Loma Linda University, Loma Linda
B.S., California State University, Dominguez Hills
A.D.N., Saddleback College

Dulgeroff, James (1986)

Professor, Economics

Ph.D., University of Southern California
M.A., University of Southern California
B.A., University of Illinois, Champaign-Urbana

Dunn, Frank (1999)

Counselor, Assistant Professor, General Counseling

M.A., University of La Verne

E

Estrada, Laura (2018)

College Nurse, Student Health Services

M.P.H. Still University
A.T., Still University
B.S.N., Azusa Pacific University
R.N., Mount St. Mary's College
P.H.N., Azusa Pacific University

Evans-Perry, Ginny (2005)

Librarian, Associate Professor, Library and Learning Support Services

M.L.I.S., San Jose State University

B.A., Chapman University

F

Fehr, Jody (2019)

Tutoring Coordinator, Academic Success and Learning Services

M.A., California State Polytechnic University, Pomona

B.A., California State University, Los Angeles

Ferri-Milligan, Paula (1999)

Professor, English

Ed.D., California State University, Fullerton

M.A., California State University, San Bernardino

B.A., California State University, San Bernardino

Fogle, Melinda (2012)

Assistant Professor, Theatre Arts

Ph.D., Bowling Green State University

M.A., University of Kentucky

B.F.A., Miami University

Fozouni, Daihim (2014)

Assistant Professor, English

M.A., California State University, San Bernardino

B.A., California State University, San Bernardino

G

García, Armando A. (2020)

Counselor, Instructor, General Counseling

M.S.C., California State University, Long Beach

G.C.C.C., California State University, Long Beach

B.A., California State University, Domínguez Hills

B.A., California State University, Domínguez Hills

A.A., Long Beach City College

Gibbons, Ann (1991)

Associate Professor, Mathematics

M.A., California State University, Fullerton

B.A., California State University, Fullerton

Gilbert, Jeremiah (2005)

Professor, Mathematics

Ph.D., Capella University

M.A., University of California, Riverside

B.A., California State University, San Bernardino

Giles, Keenan (2015)

Counselor, Assistant Professor, EOPS/CARE

M.S., San Diego State University

B.S., San Diego State University

Gomez, Edward (1998)

Associate Professor, History

M.A., University of California, Riverside

B.A., California State University, Los Angeles

A.A., Los Angeles City College

Graham, Danielle (2019)

Instructor, Psychology

Ph.D., University of Stirling, Scotland

M.S., University of Stirling, Scotland

B.A., University of California, Riverside

Gregory, Leslie (2004)

Counselor, Associate Professor, CalWORKS

M.A., Point Loma Nazarene University

B.A., California State University, San Bernardino

H

Halabi, Tarif H. (2013)

Instructor, Electricity/Electronics

M.S., California State University, Fullerton

B.S., California State University, Los Angeles

Hallex, Alicia (2016)

Learning Disabilities Specialist, Counselor, Assistant Professor, Disabled Students Programs and Services

M.A., University of Redlands

B.A., California State University, San Bernardino

A.A., Crafton Hills College

Hamdy, Rania (2013)

Coordinator, Professional and Organizational Development

M.A., California State University, San Bernardino

B.A., California State University, San Bernardino

A.A., San Bernardino Valley College

Hassanzadah, Ali (2019)

Instructor, Mathematics

M.A., California State University, San Bernardino

B.A., California State University, San Bernardino

Hauge, Kristin (2008)

Associate Professor, Head Coach - Women's Soccer, Physical Education

M.A., Azusa Pacific University

B.S., California State Polytechnic University, Pomona

A.A., Pasadena City College

Hecht, Andrea (2016)

Counselor, Assistant Professor, General Counseling

M.S., University of La Verne

B.A., California State University, San Bernardino

Hector, Leticia (2001)

Associate Professor, Communication Studies

M.A., California State University, Fullerton

B.A., California State University, Fullerton

A.A., Mt. San Antonio College

Heibel, Todd (2004)

Professor, Geography

Ph.D., Pennsylvania State University, University Park

M.A., University of Missouri, Columbia

B.S., Pennsylvania State University, University Park

Henkle, Lisa (2016)

Assistant Professor, Political Science

D.P.A., University of La Verne

M.P.A., California Baptist University

B.S.A., California Baptist University

Herrera, Jamie (2013)

Counselor, Assistant Professor, General Counseling

M.S., University of La Verne

B.S., California State University, San Bernardino

A.S., Chaffey College

Hill, June (1995)

Professor, Nursing

M.N., University of California, Los Angeles

M.S.G., University of La Verne

Hind, Brittany (2020)**Counselor, Instructor, EOPS/CARE**

M.A., San Diego State University

B.A., California State University, Northridge

A.A., San Diego Miramar College

Hinrichs, Sr., Guy (2000)**Associate Professor, Automotive Technology**

B.S., Southern Illinois University

A.A., Crafton Hills College

Holder, Patricia (2008)**Assistant Professor, Head Coach - Women's Volleyball, Physical Education**

M.A., Azusa Pacific University

B.S., San Diego Christian College

Fitness Specialist, San Diego City College

Hunter, Diane (1998)**Professor, English**

M.A., California Polytechnic University, Pomona

B.A., California Polytechnic University, Pomona

Huston, Celia J. (1998)**Librarian, Professor, Library and Learning Support Services**

Ph.D., Capella University

M.L.S., California State University, San Jose

B.A., California State Polytechnic University, Pomona

Hutchason, Jacob (2018)**Instructor, Nursing**

M.S.N., Grand Canyon University

B.S.N., Grand Canyon University

A.S., Victor Valley College

I**Israeil, Abier (2005)****Assistant Professor, Mathematics**

Ph.D., Capella University

M.A., California State University, San Bernardino

B.A., California State University, San Bernardino

J**Jacobo, Magdalena (2006)****Assistant Professor, Reading and Study Skills**

M.A., California State University, San Bernardino

B.A., University of California, Riverside

Jakpor, Riase (2013)**Assistant Professor, Political Science**

Ph.D., University of Michigan, Ann Arbor

M.A., University of Michigan, Ann Arbor

B.A., University of Michigan, Ann Arbor

Jaramillo, Richard (1999)**Assistant Professor, Automotive Technology**

A.A., Cerritos College

Jefferson, Kimberly D. (2008)**Assistant Professor, Reading and Study Skills**

M.A., Pepperdine University

M.A., California State University, San Bernardino

B.A., University of Southern California

A.A., Compton College

Johnson, Dominique (2019)**Counselor, Instructor, First Year Experience (FYE)**

M.A., P.P.S., University of Redlands

B.A., Fisk University

Johnson, Heather (2016)**Counselor, Instructor, First Year Experience (FYE)**

M.A., University of Redlands

B.A., California State University, San Bernardino

Johnson, Kimberly (2016)**Counselor, Instructor, Middle College Program**

M.A., University of Redlands

B.A., University of La Verne

Jones, Carol (2016)**Assistant Professor, Chemistry**

Ph.D., University of California, Riverside

M.S., University of California, Riverside

B.S., University of California, Riverside

Jones, Edward E. (2006)**Associate Professor, English**

M.F.A., University of California, Riverside

B.A., University of California, Riverside

Jones, Patricia (2007)**Counselor, Assistant Professor, General Counseling**

M.A., California State University, San Bernardino

B.A., California State University, San Bernardino

Joshua, Judy (2016)**Assistant Professor, English**

Ph.D., University of California, Irvine

M.A., California State University, Los Angeles

B.S., University of California, Berkeley

K**Kafela, Kathy (1999)****Coordinator, Professor, Transfer and Career Services**

M.S., Iowa State University

B.S., Iowa State University

Kanawati, Moustafa (2007)**Assistant Professor, Mathematics**

M.S., Southern Illinois University at Edwardsville

B.A., Southern Illinois University at Edwardsville

Kelly-Silagay, Deana (2016)**Veteran Counselor, Counseling/Veteran Resource Center**

M.A., University of Redlands

B.A., California State University, San Bernardino

A.A., San Bernardino Valley College

King, Melissa (2013)**Assistant Professor, Anthropology**

Ph.D., University of California, Riverside

M.A., University of California, Riverside

M.A., Fuller Theological Seminary

B.A., University of Alabama at Birmingham

Knight, Denise (1995)

Associate Professor, Child Development

M.A., Pacific Oaks College

B.A., Pacific Oaks College

A.A., Monterey Peninsula College

L

Lamore, Joel (1998)

Professor, English

M.F.A., M.A., Chapman University

B.A., Loyola Marymount University

Larivee, Elizabeth (Beth) (2019)

Counselor, Instructor, Disabled Students Programs and Services

M.A., Wheaton College

B.A., Wheaton College

Lawler, Kenneth (2013)

Assistant Professor, Kinesiology

B.S., Excelsior College

A.A., Excelsior College

Lee, Chongui Keith (1998)

Assistant Professor, Mathematics

Ed.D., California State University, Fullerton

M.S., Claremont Graduate University

M.S., California State University, Long Beach

B.S., University of California, Los Angeles

Lee, Dirkson (2006)

Professor, English/ESL

Ed.D., California State University, Fullerton

M.A., California State University, San Bernardino

B.A., University of California, Riverside

Lee, Steven (2016)

Assistant Professor, Accounting

M.B.A., California State University, San Bernardino

Lee, Yvette (1999)

Associate Professor, English

M.A., Andrews University

B.A., University of Colorado at Boulder

Lemieux, Jessy (2015)

Assistant Professor, Chemistry

Ph.D., University of California, Riverside

M.S., University of California, Riverside

B.S., University of California, Riverside

Levine, Michael (2016)

Assistant Professor, Economics

Ph.D., University of California, Riverside

M.A., University of California, Riverside

B.S., University of California, Santa Barbara

Lillard, Sheri (2007)

Associate Professor, Chemistry

Ph.D., Iowa State University

B.S., San Diego State University

Loera, Manuel (1980)

Associate Professor, Automotive Technology

A.S., Crafton Hills College

Luke, Sr., Craig (2015)

Counselor, Assistant Professor, First Year Experience (FYE)

Ph.D., Universidad Central De Nicaragua

Ph.D., Bethel Christian College, Riverside

M.A., California State University, San Bernardino

B.A., California State University, San Bernardino

Luna, Evelyn (2016)

Counselor, Instructor, First Year Experience (FYE)

M.A., University of Redlands

B.S., California State University, Fullerton

A.A., Mt. San Antonio College

López, Alma Guadalupe (2012)

Assistant Professor, English

M.A., University of California, Riverside

B.A., University of California, Santa Cruz

A.A., San Bernardino Valley College

López, Leonard (2001)

Associate Professor, Philosophy/Religious Studies

J.D., Stanford University

B.A., University of California, Los Angeles

M

Marquis, Jeanne (2008)

International Counselor, Associate Professor, General Counseling

M.A., California State University, Dominguez Hills

M.A., Central Washington University

B.A., Anhui University, China

Martin, David (2018)

Instructor, Mathematics

Ph.D., University of California, Merced

M.A., California State University, Fresno

B.S., University of California, Davis

Martin, Micah (2016)

Assistant Professor, Modern Languages

M.A., Indiana State University

B.A., University of California, Santa Barbara

Massad, Sana (2016)

Assistant Professor, Nursing

M.S.N., George Mason University

B.S.N., University of Jordan

Mattson, Susan (2011)

Associate Professor, Communication Studies

M.A., California State University, San Bernardino

B.A., California State University, San Bernardino

Mayne, Michael (2000)

Associate Professor, Mathematics

M.A., Ohio State University

B.A., Oakwood University

Melancon, Berchman K. (2013)

Instructor, Diesel Technology

A.S., Riverside City College

Mendoza, Nicole (2017)

Counselor, Instructor, First Year Experience (FYE)
M.S., California State University, San Bernardino
B.A., Whittier College

Metu, Reginald (2002)

Professor, Computer Information Technology
Ed.D., Alliant International University
M.A., California State Polytechnic University, Pomona
B.S., California State Polytechnic University, Pomona

Meyer, Stacy (2005)

Associate Professor, Culinary Arts
M.A., University of Redlands
B.S., University of Redlands
A.O.S., Culinary Institute of America

Milligan, Joshua (2016)

Assistant Professor, Welding Technology
A.S., San Bernardino Valley College

Moeung, Botra (2016)

Honors/Transfer Counselor, Assistant Professor, Transfer and Career Services
Ed.D., La Sierra University
M.S., California Baptist University
B.S., University of California, Riverside
A.A., Riverside City College

Money maker, Melinda (2009)

Assistant Professor, Human Services
B.A., California State University, San Bernardino
B.A., California State University, San Bernardino
A.A., San Bernardino Valley College

Moore, Sandra (1990)

Professor, Psychology
Ph.D., University of California, Santa Cruz
M.S., University of California, Santa Cruz
B.A., Northwestern University

Moreno, Dolores (1994)

Associate Professor, English
M.A., University of California, Riverside
B.A., University of California, Riverside

Murillo, Joan (2011)

Associate Professor, Biology
M.S., California State University, Fullerton
B.S., University of Wisconsin, Steven Point

Murphy, Joel (2015)

Assistant Professor, English
Ed.D., Nova Southeastern University
M.A., Eastern Michigan University
B.A., Reed College
B.A., Portland State University

N**Nelson, Brandy (2016)**

Assistant Professor, Human Services
M.B.A., University of Phoenix
B.A., California State University, San Bernardino

Notarangelo, Joseph (2006)

Professor, English
M.A., California State University, San Bernardino
B.A., University of California, Los Angeles

Notarangelo, Maria (2019)

Librarian, Instructor, Library and Learning Support Services
M.L.I.S., California State University, San Jose
M.A., California State University, San Bernardino
B.A., University of California, Santa Cruz

O**Obra, Violeta (2004)**

Assistant Professor, Nursing
M.S.N., Loma Linda University
B.S.N., Loma Linda University
P.C.C.N.P., Makati Medical Center, Philippines

Orozco, Debbie (2015)

Counselor, Assistant Professor, General Counseling
M.A., University of Redlands
B.A., California State University, San Bernardino
A.A., San Bernardino Valley College

Ortiz, Miguel (2016)

Assistant Professor, Machinist Technology
A.S., San Bernardino Valley College

P**Pave, Adam (2017)**

Instructor, Philosophy/Religious Studies
Ph.D., Claremont Graduate University
M.A., Claremont Graduate University
M.A., University of Hawaii
M.A., West Chester University

Pires, Romana (2007)

Professor, Sociology
M.A., California State University, Fullerton
M.S., California State University, Fullerton
B.A., California State University, Long Beach

Powell, Michael (2005)

Assistant Professor, Head Coach - Track and Field, Physical Education
M.S., Azusa Pacific University
B.S., University of Redlands

R**Rabon, Deanne (2007)**

Coordinator, Counselor, Assistance Professor, STAR Program
M.A., California State University, San Bernardino
B.A., University of California, Los Angeles

Recinos, Jose (2004)

Assistant Professor, Modern Languages (Spanish)
Ph.D., University of California, Davis
B.A., University of California, Davis

Roberts, Johnny (2016)

Assistant Professor, Heating, Ventilation, Air Conditioning, and Refrigeration

A.A., San Bernardino Valley College

Robles, Matthew (2016)

Assistant Professor, Geology

M.S., University of California, Riverside

B.S., California State University, San Bernardino

Rosales, David (2007)

Assistant Professor, Art

M.F.A., Claremont Graduate University

B.F.A., The San Francisco Art Institute

S

Scully, Madeleine (2004)

Associate Professor, Music

M.M., University of Southern California

B.M., University of Southern California

Seraj, Robyn (2018)

Instructor, Pharmacy Technology

M.Ed., California State University, San Bernardino

Simental, Yolanda (2009)

Associate Professor, Nursing

M.S.N., California State University, San Bernardino

B.S.N., California State University, San Bernardino

A.A., San Bernardino Valley College

Simpson, Tahirah (2014)

Counselor, Instructor, General Counseling

M.S., National University

B.A., California State University, San Bernardino

A.A., San Bernardino Valley College

Slusser, Michael (2002)

Associate Professor, English

M.A. University of Toronto

M.F.A., Eastern Washington University

B.A., University of California, Riverside

Smith, Daniele (2012)

Counselor, Assistant Professor, STEM/Umoja-Tumaini

M.F.T., Hope International University

B.A., Hope International University

Smith, David (2009)

Associate Professor, Mathematics

M.A., Pacific Union College

B.A., Pacific Union College

Sobhanian, Soha (2016)

Assistant Professor, Biology

Ph.D., Curtin University, Perth

M.S., California State University, Fullerton

B.S., California State University, Fullerton

Sogomonian, Nori (1994)

Associate Professor, Modern Languages (Spanish)

Ed.D., California State University, San Bernardino

M.A., University of California, Los Angeles

B.A., University of California, Los Angeles

Stalbert, Malik (2016)

Assistant Professor, Computer Information Technology and Computer Science

M.S., University of West Georgia

B.S., American InterContinental University

A.A., San Bernardino Valley College

Stanskas, Peter-John (2001)

Professor, Chemistry

Ph.D., University of Maryland

B.S., Mary Washington College

Stewart, James M. (1991)

Assistant Professor, Art

M.F.A., Claremont University

B.A., California State University, San Bernardino

A.A., San Bernardino Valley College

Strong, Teri (1994)

Professor, Mathematics

Ph.D., Capella University

T

Tasaka, Bethany (2016)

Instructor, Mathematics

M.A., California State University, San Bernardino

B.A., California State University, San Bernardino

Tilton, Julie (1991)

Assistant Professor, English

M.A., California State University, San Bernardino

B.A., California State University, San Bernardino

Tinoco, Michelle (2017)

Counselor, Instructor, General Counseling

M.A., University of Redlands

B.A., California State University, San Bernardino

A.A., San Bernardino Valley College

Tolstova, Anna (2015)

Assistant Professor, Physics

M.S., Byelorussian State University, Belarus

Torres, Christina (2016)

Assistant Professor, Kinesiology

M.A., Azusa Pacific University

B.A., California State University, Northridge

Torrez, Michael (2007)

Assistant Professor, Chemistry

M.S., California Polytechnic University, Pomona

B.S., California Polytechnic University, Pomona

U

Underwood, Bruce (2016)

Assistant Professor, Business Administration

M.B.A., California Coast University

B.S., California Coast University

V

Valdez, Maria (2016)

Assistant Professor, Psychiatric Technology

M.A., National University

B.S., University of Phoenix
 L.V.N., Beaumont Adult School
 A.A., San Bernardino Valley College

Vasquez, Tatiana (2009)
Associate Professor, Biology

M.S., University of North Carolina, Chapel Hill
 B.S., University of California, Riverside

Vu, Tammy (2020)

Counselor, Instructor, First Year Experience (FYE)

Ed.D., Trident University International
 M.S., National University
 B.S., California State University, Fullerton

W

Wahab, Abena (2016)

Counselor, Assistant Professor, STEM

M.S., Loyola University, Maryland
 M.S., Drexel University
 B.S., Morgan State University

Wall, Patricia A. (1985)

Librarian, Professor, Library and Learning Support Services

M.L.S., California State University, San Jose
 B.A., California State University, San Bernardino
 A.A., San Bernardino Valley College

Weaver, Teresa (2015)

Assistant Professor, Psychiatric Technology

M.S.N., PMHNP, Loma Linda University Medical Center
 B.S.N., University of Phoenix
 A.D.N., Victor Valley College

Wilkins, Janice (2015)

Articulation Officer/Counselor, Assistant Professor, General Counseling

M.S., University of La Verne
 B.A., California State University, Long Beach

Williams, Mark (1985)

Professor, Automotive

A.S., Chaffey College

Wooten, André (2005)

Athletic Counselor, Associate Professor, The Huddle

M.S., University of New Mexico
 B.A., University of New Mexico
 A.A., Cerritos College

Worsley, Margaret (2016)

Assistant Professor, Music

M.M., University of Michigan
 B.M., California State University, Fullerton
 A.D., Glenn Gould School of the Royal Conservatory of Music

Z

Zardkoohi, Sohrab (2018)

Instructor, Culinary Arts

A.A., American River College

Adjunct Faculty

In addition to the regular full-time contract faculty, San Bernardino Valley College has quality adjunct faculty in each division who come from industry, business and other educational institutions to provide a faculty with many talents to support diversified and exemplary programs demanded and expected of a community college.

Faculty / Professor Emeriti

Faculty/Professor Emeritus is a recognition bestowed by the Academic Senate to recognize our retiring academic colleagues for their service to the college, students, and peers; as well as an acknowledgment that their service will not be forgotten after they leave the college.

Alexander, Horace - English

Anderson, Diana J. - English

Anderson, Willard - Accounting

Andriese, Jacob (Jack) - Music

Ashton, Judith - English

Atzet, Raymond - Architecture

Avila, Diana - Mathematics

Battle, Eileen F. - Nursing

Berry, Anita - Nursing

Berry, John W. - Art

Bruno, Frank - Psychology

Burningham, Robert - Communications

Burson, Thurmon - Career Center

Busselle, Carlos (Buzz) - Electronics

Chamberlain, Thomas K. - English

Clarke, William - Machine Trades

Cook, Carol - Biology

Cunningham, William E. - Astronomy

Dahlgren, Ingrid - Physical Education

Diers, Cleon - Mathematics

Dusick, Diane - RTVF

Flanders, Jacqueline - Physical Education

Gamboa, Darlene - Biology

Gates, Dorothy L. - Sociology

Gomez, Laura - Counseling

Gordon, Esther H. - Child Development

Green, Jan - Health Services

Grutsis, Paul - Economics

Harmeyer, Arthur R. - Physics

Harvey, Robert A. - Biology/Botany

Hearn, Lily G. - English

Hunt, Sharon I. - Office Information Systems

Ikeda, Mark - Biology

Jacobsen, Patricia - Reading

James, Henry A. - Computer Science

Kondor, Albert - Anthropology/German

Korzillius, Lillian L. - Family/Consumer Science

Lanto, Enid G. - Library

Lardy, Leonard A. - English

Lawrence, David - Humanities

Lewis, Bennett H. - Data Processing

Lewis, John E. - Microbiology

Lopez, Frank - Aeronautics

Lysak, Michael - Physics

Malottke, Erna - Secretarial

Martin, Juliann - Child Development

Martin, Livio C. - Aeronautics

Mason, Dorothy M. - Nursing
Maul, Terry - Psychology
McKie, Bill - English
Mestas, Marie - Library and Learning Support Services
Michaelis, Kenneth - Biology
Mitchell, Jack - English
Neuhaus, Clemens - English
Newlee, Anne Georgie - Physical Education
Nunez, Ida - Nursing
Okamura, Judy - Chemistry
Olsen, John (Jack) - Anatomy/Physiology
Olson, John - Biology
Paszkiwicz, Robert - Psychiatric Technology
Perez, Edward - English
Peterson, Frank P. - Administration of Justice
Purkart, Susan A. - Reading/Study Skill
Rippy, Robert H. - English
Roberts, J. Lynn - Automotive
Runyon, Cynthia - Physical Education
Sandlin, Stephen - Geography
Scantlin, Dorothy - Nursing
Schall, Donald - Business Administration
Schmidt, Roger - Philosophy/Religious Studies
Scott, Tom - Physical Education
Segovia, Eloise M. - Counseling
Sherman, Sylvia J. - History
Shimoff, Susan - Family/Consumer Science
Shodahl, Susan A. - Psychology
Smedley, Ron - Physical Education
Smith, Bob - Physical Education
Smith, Joyce - Counseling
Smith, Loren E. - History
Smith, Princie D. - Psychiatric Technology
Stafford, Robert - Mathematics
Stanfill, Peg - Counselor
Stauder, Laurie - English
Stoddard, Wayne - Physical Science
Sturgeon, Rita - Mathematics
Szumski, Edward J. - Electronics
Thrasher, Marvin E. - Psychology
Whisler, Louise - Mathematics
Williams, Bruce G. - Automotive
Williams, Susan - Art
Wilson, Robert - Physics/Astronomy
Wright, Melvin L. - Business Administration/Business Math
Young, James E. - History/Religious Studies
Zaharopoulos, George - Political Science
Zepeda, Juan - Counseling
Zoumbos, Nickolas - Accounting

COURSES A-Z

A

- Accounting (ACCT) (p. 311)
- Administration of Justice (ADJUS) (p. 311)
- Aeronautics (AERO) (p. 312)
- American Sign Language (ASL) (p. 316)
- Anthropology (ANTHRO) (p. 316)
- Arabic (ARAB) (p. 318)
- Architecture (ARCH) (p. 318)
- Art (ART) (p. 320)
- Astronomy (ASTRON) (p. 325)
- Automotive Interiors (AUTOIN) (p. 325)
- Automotive Technology (AUTO) (p. 325)

B

- Biology (BIOL) (p. 328)
- Business Administration (BUSAD) (p. 330)

C

- Chemistry (CHEM) (p. 332)
- Child Development (CD) (p. 333)
- Communication Studies (COMMST) (p. 337)
- Computer Information Technology (CIT) (p. 338)
- Computer Science (CS) (p. 343)
- Corrections (CORREC) (p. 345)
- Criminal Justice (CRMJUS) (p. 345)
- Culinary Arts (CULART) (p. 346)

D

- Dance (DANCE) (p. 348)

E

- Economics (ECON) (p. 349)
- Electricity (ELEC) (p. 350)
- Electronics (ELECTR) (p. 351)
- Engineering (ENGR) (p. 353)
- English (ENGL) (p. 353)
- English As a Second Language (ESL) (p. 358)
- Environmental Science (ENVT) (p. 359)

F

- Film, Television, and Media (FTVM) (p. 359)
- Foods and Nutrition (FN) (p. 361)
- French (FRENCH) (p. 362)

G

- Geographic Information Systems (GIS) (p. 362)
- Geography (GEOG) (p. 363)
- Geology (GEOL) (p. 365)

H

- Health Education (HEALTH) (p. 366)
- Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R) (p. 367)
- Heavy/Medium Duty Truck (HMDT) (p. 369)
- History (HIST) (p. 371)
- Human Services (HUMSV) (p. 372)

I

- Inspection Technology (INSPEC) (p. 375)

K

- Kinesiology (Adapted) (KINA) (p. 377)
- Kinesiology (Athletics) (KINX) (p. 378)
- Kinesiology (Fitness) (KINF) (p. 381)
- Kinesiology (KIN) (p. 384)
- Kinesiology (Team) (KINS) (p. 385)

L

- Library Technology (LIB) (p. 387)

M

- Machinist Technology (MACH) (p. 388)
- Mathematics (MATH) (p. 391)
- Music (MUS) (p. 393)

N

- Nursing (NURS) (p. 399)

O

- Oceanography (OCEAN) (p. 402)
- OSHA (OSHA) (p. 402)

P

- Pharmacy Technology (PHT) (p. 403)
- Philosophy (PHIL) (p. 404)
- Physics (PHYSIC) (p. 404)
- Police Science (POLICE) (p. 405)
- Political Science (POLIT) (p. 409)
- Psychiatric Technology (PSYTCH) (p. 410)
- Psychology (PSYCH) (p. 411)

R

- Reading and Study Skills (READ) (p. 412)
- Real Estate (REALST) (p. 413)
- Religious Studies (RELIG) (p. 414)

S

- Sociology (SOC) (p. 415)
- Spanish (SPAN) (p. 416)
- Street Rod (AUTOST) (p. 417)
- Student Development (SDEV) (p. 417)

T

- Technical Calculations (TECALC) (p. 418)
- Theatre Arts (THART) (p. 418)

V

- Vehicle Restoration (AUTORS) (p. 420)
- Vocational Education (VOCED) (p. 420)

W

- Water Supply Technology (WST) (p. 420)
- Welding Technology (WELD) (p. 424)
- Work Experience (WKEXP) (p. 427)

Accounting (ACCT)

ACCT 010 3 Units**Bookkeeping****Lecture:** 54 contact hours

This is an introductory course for students interested in the accounting field. The focus is basic bookkeeping and accounting principles for small business enterprises. Emphasis is on the development of skills used to record business transactions, as well as the procedures to prepare financial statements and complete the accounting cycle. The course is designed for occupational students and for those who wish preparatory training before entering ACCT 200.

Associate Degree Applicable**ACCT 030 4 Units****Federal and State Individual Income Taxation****Lecture:** 72 contact hours

This course is an introduction to the basic concepts of federal and state individual income taxation. Topics include history and objectives of the income taxes system, analysis of current income taxes issues, and the tax treatment of various types of income, deductions, and credits. Tax planning strategies are discussed. Actual tax forms are studied. Comprehensive individual tax returns are prepared.

Associate Degree Applicable**ACCT 047 3 Units****Computerized Accounting****Lecture:** 54 contact hours

This course provides a comprehensive overview of accounting software. Topics covered include the analysis of source documents and the use of accounting software to prepare, understand, and interpret financial statements for a variety of management purposes. It also includes creation and use of spreadsheets to find the solutions to accounting problems.

Associate Degree Applicable**ACCT 090 3 Units****Payroll Accounting****Lecture:** 54 contact hours

This course is designed to introduce various types of employee compensations and the current federal and state payroll taxes system. Withholding requirements from employees' compensations as well as payroll taxes reporting are studied. Various types of payroll taxes forms are discussed and prepared. This course will focus on the records and control requirements of payroll accounting.

Associate Degree Applicable**ACCT 200 4 Units****Financial Accounting****Lecture:** 72 contact hours**Advisory:** ENGL 101 or ENGL 101H and MATH 095 or MATH 096

This course offers an introduction to accounting information as an aid to decision-making for external users of financial statements. Students learn to measure and record accounting data, prepare financial statements and analyze published financial accounting information. The focus is on the subjects of accounting cycle, the application of generally accepted accounting principles, ethics, the financial statements, and statement analysis.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ACCT 110**ACCT 201 4 Units****Managerial Accounting****Lecture:** 72 contact hours**Prerequisite:** ACCT 200

This course studies the use of accounting information in decision-making, planning, directing operations and controlling. It focuses on cost terms and concepts, cost behavior, cost structure and cost-volume-profit analysis. Issues relating to ethics, cost systems, cost control, profit planning, and performance analysis in manufacturing and service environments are also examined.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ACCT 120

Administration of Justice (ADJUS)

ADJUS 101 3 Units**Introduction to Administration of Justice****Lecture:** 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an introduction to the philosophy and history of the criminal justice system including the roles and functions of the local, state, and federal jurisdictions. Additional discussion topics will include the roles, functions and interrelationships among law enforcement agencies, courts and corrections as well as crime causation, correctional theory, analysis, and the social impact of crime.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** AJ 110**ADJUS 102 3 Units****Principles and Procedures of the Justice System****Lecture:** 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course provides an examination and analysis of due process in criminal proceedings, from pre-arrest through trial and appeal, utilizing statutory, state and constitutional precedents.

Associate Degree Applicable**Transfers to CSU only****C-ID:** AJ 122

ADJUS 103 3 Units**Concepts of Criminal Law****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an introduction to common law, legal concepts, codes and their history, and the philosophy and development of U.S. criminal law.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** AJ 120**ADJUS 104 3 Units****Legal Aspects of Evidence****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course examines the origin, development, philosophy, and constitutional basis of the use of evidence. It also incorporates constitutional and procedural considerations affecting arrest, search and seizure, types of evidence, and rules governing admissibility, judicial decisions, and interpretation of individual rights. Case studies will also be covered in this class.

Associate Degree Applicable**Transfers to CSU only****C-ID:** AJ 124**ADJUS 105 3 Units****Community Relations****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course examines the complex and dynamic relationship between communities and the justice system in addressing crime and conflict with an emphasis on the challenges of administering justice within a diverse multicultural population. Topics include the consensus and conflicting values in culture, religion, and the law.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** AJ 160**ADJUS 106 3 Units****Principles of Investigation****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course covers the principles of various types of investigations utilized in the criminal justice system, including concepts of investigation, and the analysis, evaluation, preservation and documentation of evidence. The course will also include dealing with the public, techniques for handling crime scenes, interviews, evidence, surveillance, follow-up, technical resources, and case preparation.

Associate Degree Applicable**Transfers to CSU only****C-ID:** AJ 140**ADJUS 107 3 Units****Concepts of Enforcement Services****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course examines the theories, philosophies, and concepts related to the role expectations of line enforcement officers. The emphasis is focused on patrol, traffic and public service responsibilities and their relationships to the administration of justice.

Associate Degree Applicable**Transfers to CSU only****ADJUS 108 3 Units****Juvenile Procedures****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an examination of the origin, development, and organization of the Juvenile Justice System as it evolved in the American Justice System. The course explores the theories that focuses on juvenile law, courts and processes, and the constitutional protections extended to juveniles administered by the American Justice System.

Associate Degree Applicable**Transfers to CSU only****C-ID:** AJ 220

Aeronautics (AERO)

AERO 015 2 Units**Nano Composite Technology****Lecture:** 18 contact hours**Lab:** 54 contact hours

This course is an introduction to Nano Composite Structures including the manufacturing, uniqueness, strength and repair methods in the aviation field and any related fields using composites technology.

Associate Degree Applicable**AERO 021 3 Units****Aviation Fundamentals****Lecture:** 54 contact hours

This course is an introduction to the basic principles of aeronautics, aircraft structure and operations including space, rocketry and aeronautical occupations.

Associate Degree Applicable**AERO 022 6 Units****Private Pilot Ground School****Lecture:** 108 contact hours

This course offers complete preparation for the Federal Aviation Administration (FAA) private pilot written examination including aerodynamics, weight and balance, airports and airspace, meteorology, using aviation services, flight information publications, federal air regulations, navigation, radio navigation aids, cross-country flight planning, physiology of flight, and airborne emergencies.

Associate Degree Applicable

AERO 024 3 Units**Aircraft Powerplants****Lecture:** 54 contact hours

This course is designed to familiarize the student with the operating principles and construction highlights of both reciprocating and jet aircraft engines including internal combustion engines, jet propulsion engines, aircraft fuels and fuel systems, electrical and ignition systems, lubricants and lubrication systems, propellers, engine instrument and control systems, engine inspection, operation and troubleshooting.

Associate Degree Applicable**AERO 025 2 Units****Flight Safety****Lecture:** 36 contact hours

This course is an in-depth study of flight safety including: organizations contributing to flight safety, Pilot and passenger responsibilities, emergency radio procedures, pilot resources, ground safety, mid-air collisions, weather and night flight hazards and precautions, emergency procedures, medical factors, human factors, and crash investigation and liability.

Associate Degree Applicable**AERO 026 3 Units****Airframe Structures****Lecture:** 54 contact hours

This course is designed to familiarize the aviator or prospective pilot with the fundamentals of aircraft design and construction including: aircraft structural components, fundamentals of aerodynamics and flight, materials and hardware, ice and rain protection, hydraulic and pneumatic systems, landing gear systems, fire protection systems, electrical systems, instrument systems, weight and balance control, and blue print reading.

Associate Degree Applicable**AERO 027 2 Units****Airport Certification and Operations****Lecture:** 36 contact hours

This course covers airport certification and operations including applicability, definitions, certificate requirements, and process, Airport Certification Manual (ACM), record keeping, personnel requirements, markings, signs, and lighting, airport emergency plan, wildlife hazard management, and unmanned aerospace vehicles (UAV)(drones) issues.

Associate Degree Applicable**AERO 034 3 Units****Civil Aviation Management and Laws****Lecture:** 54 contact hours

This course covers the history of civil aviation in the United States including: federal legislation on civil aviation, international treaties and agreements relevant to civil aviation, and regulations pertaining to the management of airports, air carriers, general aviation, international air transport, and the air cargo industry.

Associate Degree Applicable**AERO 040 4 Units****Instrument Ground School****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course examines the fundamentals of instrument flight in the Air Traffic Control (ATC) system and factors that can affect the operation including aerodynamics, navigation, flight planning, and communication. The subject matter is reinforced by flying various procedures in flight simulators. This course can be used as a method to meet the Federal Aviation Administration (FAA) requirements for the ground instruction portion of a Biennial Flight Review (BFR) as specified in Federal Aviation Regulations (FAR) 61.56.

Associate Degree Applicable**AERO 046 3 Units****Aviation Weather****Lecture:** 54 contact hours

This course covers the aspects of weather as they relate to aircraft operation and safety. Includes: Basic and hazardous weather, atmospheric winds, pressure systems as associated with weather, cloud formation, air masses and fronts, thunderstorms, turbulence and icing, fog, haze and smoke, high altitude, arctic and tropical weather, interpretation of weather reports, forecast, charts and maps.

Associate Degree Applicable**AERO 050 5 Units****General/Calculations and Basic Electricity Airframe and Powerplant Technologies****Lecture:** 90 contact hours**Corequisite:** AERO 050L

This course provides training for the General requirements of the Aviation Maintenance Technician Certificate. Areas of study include familiarization of basic hand tools, applications of mathematics, basic physics, certain Federal Aviation Regulations (FARs), basic electricity including application of Ohm's Law, electrical terms, units of measure, types of electrical circuits, reading and interpreting electrical diagrams, and electrical components familiarization. (Formerly AERO 100)

Associate Degree Applicable**AERO 050L 2 Units****General Laboratory/Calculations And Basic Electricity Airframe and Powerplant Technologies****Lab:** 108 contact hours**Corequisite:** AERO 050

This course provides training for the General requirements of the Aviation Maintenance Technician Certificate. The content includes the use of basic hand tools, applications of mathematics, basic physics, certain Federal Aviation Regulations (FARs), basic electricity including application of Ohm's Law, use of a volt/ohm meter, interpret electrical circuit diagrams, service and inspection of batteries. (Formerly AERO 100L)

Associate Degree Applicable**AERO 051 5 Units****General/Materials and Servicing Airframe and Powerplant Technologies****Lecture:** 90 contact hours**Corequisite:** AERO 051L

This course provides training for the General requirements of the Aviation Maintenance Technician Certificate. Areas of instruction include aircraft weight and balance control, basic drafting, aircraft fluid lines and fittings, aircraft hardware, materials, non-destructive testing processes, corrosion control, aircraft cleaning and ground operations and handling. (Formerly AERO 101)

Associate Degree Applicable

AERO 051L 2 Units**General Laboratory/Materials and Servicing Airframe and Powerplant Technologies****Lab:** 108 contact hours**Corequisite:** AERO 051

This course provides training for the General requirements of the Aviation Maintenance Technician Certificate. Areas of instruction include aircraft weight and balance control, basic drafting, aircraft fluid lines, fittings, aircraft hardware, materials, non-destructive testing processes, corrosion control, aircraft cleaning, and ground operations and handling. (Formerly AERO 101L)

Associate Degree Applicable**AERO 052 6 Units****Airframe Maintenance - Structures****Lecture:** 108 contact hours**Corequisite:** AERO 052L

This course provides training for the Airframe requirements of the Airframe Maintenance Technician Certificate and the Aviation Maintenance Technician Certificate. Areas of instruction include airframe structures, aircraft covering, aircraft finishing, theory of flight, assembly and rigging, structural repair, aircraft inspection, and aircraft fuel systems. (Formerly AERO 102)

Associate Degree Applicable**AERO 052L 5 Units****Airframe Maintenance Laboratory - Structures****Lab:** 270 contact hours**Corequisite:** AERO 052

This course provides training for the Airframe requirements of the Airframe Maintenance Technician Certificate and the Aviation Maintenance Technician Certificate. Areas of instruction include airframe structures, aircraft covering, aircraft finishing, theory of flight, assembly and rigging, structural repair, aircraft inspection, and aircraft fuel systems. (Formerly AERO 102L)

Associate Degree Applicable**AERO 053 6 Units****Airframe Maintenance - Systems and Components****Lecture:** 108 contact hours**Corequisite:** AERO 053L

This course provides training for the Airframe requirements of the Airframe Maintenance Technician Certificate and the Aviation Maintenance Technician Certificate. Topics of study include aircraft welding, electrical circuits, and basic aircraft systems for power, landing, brakes warning instrumentation, autopilot, cabin atmosphere control, ice and rain control, fire protection and communications. (Formerly AERO 103)

Associate Degree Applicable**AERO 053L 5 Units****Airframe Maintenance Laboratory - Systems and Components****Lab:** 270 contact hours**Corequisite:** AERO 053

This course provides training for the Airframe requirements of the Airframe Maintenance Technician Certificate and the Aviation Maintenance Technician Certificate. Topics of instruction include aircraft welding, electrical circuits, and basic aircraft systems for power, landing, brakes warning instrumentation, auto pilot, cabin atmosphere control, ice and rain control, fire protection and communications. (Formerly AERO 103L)

Associate Degree Applicable**AERO 054 6 Units****Powerplant Maintenance - Reciprocating Engine Overhaul****Lecture:** 108 contact hours**Corequisite:** AERO 054L

This course provides training for the Powerplant requirements of the Powerplant Maintenance Technician Certificate and the Aviation Maintenance Technician Certificate. Topics of study include reciprocating engine theory, overhaul, inspections, lubricating systems, indicating systems, fire protection systems, and engine fuel systems. (Formerly AERO 104)

Associate Degree Applicable**AERO 054L 5 Units****Powerplant Maintenance Laboratory - Reciprocating Engine Overhaul****Lab:** 270 contact hours**Corequisite:** AERO 054

This course provides training for the Powerplant requirements of the Powerplant Maintenance Technician Certificate and the Aviation Maintenance Technician Certificate. Topics of study include reciprocating engine theory, overhaul, inspections, lubricating systems, indicating systems, fire protection systems, and engine fuel systems. (Formerly AERO 104L)

Associate Degree Applicable**AERO 055 6 Units****Powerplant Maintenance - Accessory Overhaul****Lecture:** 108 contact hours**Corequisite:** AERO 055L

This course provides training for the Powerplant requirements of the Powerplant Maintenance Technician Certificate and the Aviation Maintenance Technician Certificate. Topics of study include electricity, ignition, fuel, fuel metering, induction, cooling, exhaust, propellers, turbine engines and auxiliary power units. (Formerly AERO 105)

Associate Degree Applicable**AERO 055L 5 Units****Powerplant Maintenance Laboratory - Accessory Overhaul****Lab:** 270 contact hours**Corequisite:** AERO 055

This course provides training for the Powerplant requirements of the Powerplant Maintenance Technician Certificate and the Aviation Maintenance Technician Certificate. Areas of instruction include electrical power generation, ignition, fuel and fuel metering, induction, cooling, exhaust, propeller systems, turbine engines and auxiliary power units. (Formerly AERO 105L)

Associate Degree Applicable**AERO 098 1-4 Units****Aeronautics Work Experience****WRKEX:** 60 contact hours

This course involves supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable**AERO 600 Noncredit****Introduction to Aviation Technology****Lecture:** 16 contact hours**Lab:** 48 contact hours

This noncredit introductory course gives students hands-on experience with airframe and powerplant aviation technology. It will focus on aviation principles, maintenance practices, and careers.

AERO 621 Noncredit**Aviation Fundamentals****Lecture:** 54 contact hours

This noncredit course is an introduction to the basic principles of aeronautics, aircraft structure and operations including space, rocketry and aeronautical occupations.

AERO 622 Noncredit**Private Pilot Ground School****Lecture:** 108 contact hours

This noncredit course offers complete preparation for the Federal Aviation Administration (FAA) private pilot written examination including aerodynamics, weight and balance, airports and airspace, meteorology, using aviation services, flight information publications, federal air regulations, navigation, radio navigation aids, cross-country flight planning, physiology of flight, and airborne emergencies.

AERO 624 Noncredit**Aircraft Powerplants****Lecture:** 54 contact hours

This course is designed to familiarize the student with the operating principles and construction highlights of both reciprocating and jet aircraft engines including: internal combustion engines, jet propulsion engines, aircraft fuels and fuel systems, electrical and ignition systems, lubricants and lubrication systems, propellers, engine instrument and control systems, engine inspection, operation and troubleshooting.

AERO 625 Noncredit**Flight Safety****Lecture:** 36 contact hours

This noncredit course is an in-depth study of flight safety including: organizations contributing to flight safety, pilot and passenger responsibilities, emergency radio procedures, pilot resources, ground safety, mid-air collisions, weather and night flight hazards and precautions, emergency procedures, medical factors, human factors, and crash investigation and liability.

AERO 626 Noncredit**Airframe Structures****Lecture:** 54 contact hours

This noncredit course is designed to familiarize the aviator or prospective pilot with the fundamentals of aircraft design and construction including: aircraft structural components, fundamentals of aerodynamics and flight, materials and hardware, ice and rain protection, hydraulic and pneumatic systems, landing gear systems, fire protection systems, electrical systems, instrument systems, weight and balance control, and blueprint reading.

AERO 640 Noncredit**Instrumental Ground School****Lecture:** 54 contact hours**Lab:** 54 contact hours

This noncredit course examines the fundamentals of instrument flight in the Air Traffic Control (ATC) system and factors that can affect the operation including aerodynamics, navigation, flight planning, and communication. The subject matter is reinforced by flying various procedures in flight simulators. This course can be used as a method to meet the Federal Aviation Administration (FAA) requirements for the ground instruction portion of a Biennial Flight Review (BFR) as specified in Federal Aviation Regulations (FAR) 61.56.

AERO 646 Noncredit**Aviation Weather****Lecture:** 54 contact hours

This noncredit course covers the aspects of weather as they relate to aircraft operation and safety. It includes basic and hazardous weather, atmospheric winds, pressure systems as associated with weather, cloud formation, air masses and fronts, thunder storms, turbulence and icing, fog, haze and smoke, high altitude, arctic and tropical weather, interpretation of weather reports, forecast, charts and maps.

AERO 650L Noncredit**General Laboratory/Calculations and Basic Electricity Airframe and Powerplant Technologies****Lab:** 45 contact hours

This noncredit course provides additional training and lab hours for the Airframe Maintenance Technician Certificate as required by the FAA. The content includes the use of basic hand tools, applications of mathematics, basic physics, certain Federal Aviation Regulations (FARs), basic electricity including application of Ohm's Law, use of a volt/ohm meter, interpret electrical circuit diagrams, service and inspection of batteries.

AERO 651L Noncredit**General Laboratory/Materials and Servicing Airframe and Powerplant Technologies****Lab:** 45 contact hours

This noncredit course provides training for the General requirements of the Aviation Maintenance Technician Certificate. Areas of instruction include aircraft weight and balance control, basic drafting, aircraft fluid lines, fittings, aircraft hardware, materials, non-destructive testing processes, corrosion control, aircraft cleaning, and ground operations and handling.

AERO 652L Noncredit**Airframe Maintenance Laboratory - Structures****Lab:** 54 contact hours

This noncredit course provides training for the Airframe requirements of the Airframe Maintenance Technician Certificate and the Aviation Maintenance Technician Certificate. Areas of instruction include airframe structures, aircraft covering, aircraft finishing, theory of flight, assembly and rigging, structural repair, aircraft inspection, and aircraft fuel systems.

AERO 653L Noncredit**Airframe Maintenance Laboratory System and Components****Lab:** 54 contact hours

This noncredit course provides additional training and lab hours for the Airframe Maintenance Technician Certificate as required by the FAA. Topics of instruction include aircraft welding, electrical circuits, and basic aircraft systems for power, landing, brakes warning instrumentation, autopilot, cabin atmosphere control, ice and rain control, fire protection and communications.

AERO 654L Noncredit**Powerplant Maintenance Laboratory - Reciprocating Engine Overhaul****Lab:** 54 contact hours

This noncredit course provides training for the Powerplant requirements of the Powerplant Maintenance Technician Certificate and the Aviation Maintenance Technician Certificate. Topics of study include reciprocating engine theory, overhaul, inspections, lubricating systems, indicating systems, fire protection systems, and engine fuel systems.

AERO 655L Noncredit**Powerplant Maintenance Laboratory - Accessory Overhaul****Lab:** 54 contact hours

This noncredit course provides training for the Powerplant requirements of the Powerplant Maintenance Technician Certificate and the Aviation Maintenance Technician Certificate. Areas of instruction include electrical power generation, ignition, fuel and fuel metering, induction, cooling, exhaust, propeller systems, turbine engines and auxiliary power units.

AERO 900 1 Unit**Lab Studies in Aviation Maintenance Technology****Lab:** 54 contact hours**Prerequisite/Corequisite:** AERO 050L and AERO 051L

This course provides additional laboratory instruction for students lacking mandated hours or projects to complete a training certificate.

American Sign Language (ASL)

ASL 109 4 Units**American Sign Language I****Lecture:** 72 contact hours

In this course students develop communication skills in American Sign Language including the alphabet, basic vocabulary and grammar of ASL. Both receptive and expressive abilities are emphasized. Students review the characteristics of the deaf community and culture.

Associate Degree Applicable**Transfers to both UC/CSU****ASL 110 4 Units****American Sign Language II****Lecture:** 72 contact hours**Prerequisite:** ASL 109

The course is second in a series of four ASL courses designed for the student to develop proficiency in ASL usage. Students continue to develop basic conversational skills with emphasis on expanding vocabulary and comprehension/production skills. There are four basic categories: cultural awareness, grammatical features, vocabulary development, and conversational skills.

Associate Degree Applicable**Transfers to both UC/CSU****ASL 111 4 Units****American Sign Language III****Lecture:** 72 contact hours**Prerequisite:** ASL 110

Students continue to develop conversational skills in American Sign Language and expand their vocabulary and grammar of ASL. Students review primary issues in deaf culture and strengthen their understanding of deaf awareness. Emphasis is on idiomatic constructions as well as comprehension and production skills.

Associate Degree Applicable**Transfers to both UC/CSU****ASL 112 4 Units****American Sign Language IV****Lecture:** 72 contact hours**Prerequisite:** ASL 111

This course is designed to help students acquire communicative competency in American Sign Language, both comprehension and production skills within the contexts of literature and storytelling. Emphasis is on cultural awareness, grammatical features, vocabulary development, and conversational skills.

Associate Degree Applicable**Transfers to both UC/CSU**

Anthropology (ANTHRO)

ANTHRO 100 3 Units**Introduction to Archaeology****Lecture:** 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course introduces archaeology, its methods and contributions, in an anthropological context. Topics in this course include cultural resource management, seriation, interpretation of finds, and selected case studies.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ANTH 150**ANTHRO 102 3 Units****Cultural Anthropology****Lecture:** 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an introduction to the anthropological study of human diversity and culture. Cultural anthropologists study human organization, expression, subsistence, communication, belief, and identity, in relation to social inequalities and culture change.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ANTH 120**ANTHRO 102H 3 Units****Cultural Anthropology - Honors****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course is an introduction to the anthropological study of human diversity and culture. Cultural anthropologists study human organization, expression, subsistence, communication, belief, and identity, in relation to social inequalities and culture change. This course is intended for students in the Honors Program, but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ANTH 120**ANTHRO 103 3 Units****Anthropology of Food****Lecture:** 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course studies food from a holistic anthropological perspective. It examines production and consumption of food around the world and across time, and it investigates the variability of the cultural meanings and ecological roles of particular food resources and practices.

Associate Degree Applicable**Transfers to both UC/CSU**

ANTHRO 106 3 Units**Biological Anthropology****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course introduces concepts and methods used to study the human species in a scientific, evolutionary framework. Topics covered include evolutionary theory, genetics, the fossil record of human ancestors, comparative primatology, human variation, and interactions between biology and culture.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ANTH 110**ANTHRO 106H 3 Units****Biological Anthropology - Honors****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course introduces concepts and methods used to study the human species in a scientific, evolutionary framework. Topics covered include evolutionary theory, genetics, the fossil record of human ancestors, comparative primatology, human variation, and interactions between biology and culture. This course is intended for students in the Honors Program but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ANTH 110**ANTHRO 106L 1 Unit****Biological Anthropology Laboratory****Lab:** 54 contact hours**Prerequisite/Corequisite:** ANTHRO 106 or ANTHRO 106H**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This laboratory course is offered as a supplement to Biological Anthropology (ANTHRO 106 or ANTHRO 106H) either taken concurrently or in a subsequent term. Laboratory exercises are designed to introduce students to the scientific method and explore genetics, human variation, human and non-human primate anatomy and behavior, the primate and hominin fossil record, and other resources to investigate processes that affect human evolution.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ANTH 115L**ANTHRO 108 3 Units****North American Indians****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course provides an anthropological view to the study of indigenous peoples and cultures of North America. This course encourages critical thought about anthropological scholarship on the identities and experiences of indigenous peoples and communities of North America. Topics covered include North American Indian origins, culture areas, representations of North American Indians, tribes and legislation, and key issues facing North American Indian communities today.

Associate Degree Applicable**Transfers to both UC/CSU****ANTHRO 109 3 Units****Visual Culture and Art****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course explores approaches to visual culture and art in the discipline of anthropology. Included in the course is a survey of diverse visual and artistic practices, study of the relations between power and sight, and introduction to the methods of visual anthropology.

Associate Degree Applicable**Transfers to both UC/CSU****ANTHRO 110 3 Units****Magic, Witchcraft, and Religion****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course introduces the study of beliefs and practices, past and present, associated with magic, witchcraft, and religion. Topics examined include ritual, symbolism, altered states of consciousness, and healing, as well as syncretism, change, and the social roles of these beliefs and practices. This course is also offered as RELIG 110.

Associate Degree Applicable**Transfers to both UC/CSU****ANTHRO 125 3 Units****Language and Culture****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course provides a foundation for the study of language from an anthropological perspective. Topics studied fall into two main categories: the structure of language and the use of language in cultural contexts. Topics include language ideologies, speech communities, and the relation between culture and language.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ANTH 130**ANTHRO 222 1-3 Units****Independent Study in Anthropology****DIR:** 162 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

Students with previous coursework in anthropology may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of anthropology. Prior to registration, a written contract must be prepared jointly by the instructor and the student.

Associate Degree Applicable**Transfers to CSU only****ANTHRO 223 1-3 Units****Independent Study in Anthropology - Guided Research****DIR:** 162 contact hours**Prerequisite:** ANTHRO 222

Students with previous coursework in anthropology may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of anthropological research and analysis. Prior to registration, a written contract must be prepared jointly by the instructor and the student.

Associate Degree Applicable**Transfers to CSU only**

Arabic (ARAB)

ARAB 101 5 Units

College Arabic I

Lecture: 90 contact hours

This course includes the study of essentials of pronunciation including the Arabic alphabet, symbols and sounds, vocabulary, idioms, and grammatical structures along with an introduction to the key social issues and culture of Arabic-speaking people. This course corresponds to two years of high school study.

Associate Degree Applicable

Transfers to both UC/CSU

ARAB 102 5 Units

College Arabic II

Lecture: 90 contact hours

Prerequisite: ARAB 101

In this course students continue to develop the ability to converse, read and write in Arabic. The course includes the study of essentials of pronunciation, vocabulary, idioms, and grammatical structures along with an introduction to the key social issues and culture of Arabic speaking people.

Associate Degree Applicable

Transfers to both UC/CSU

Architecture (ARCH)

ARCH 015 2 Units

Survey of Design and Drafting Software Applications

Lecture: 18 contact hours

Lab: 54 contact hours

This course is an introduction to the theories and principles of industry-related software applications in the design and drafting fields. Topics of the course include dimensional graphics, three-dimensional modeling, and electronic mapping applications. Principal software applications will be explored as they relate to the fields of architecture, design, manufacturing, construction, and urban planning.

Associate Degree Applicable

ARCH 070 1 Unit

Portfolio Design

Lab: 54 contact hours

Prerequisite: ARCH 112 or ARCH 113

This course is designed to assist architecture students in the preparation of their portfolio. The design portfolio is required to transfer to most four-year/five-year Architecture programs. This course also benefits the student entering the job force in documenting their experience. (Formerly ARCH 270)

Associate Degree Applicable

ARCH 098 1-4 Units

Environmental Design Work Experience

WRKEX: 300 contact hours

Prerequisite: ARCH 111 or ARCH 112 or ARCH 145 or ARCH 145H

This course involves supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable

ARCH 110 2 Units

Introduction to Architecture

Lecture: 36 contact hours

This course explores the professional and academic path of the architect and aspects of the architect's relation to allied professions. Lectures will include licensing, academic options and pathways, history of the profession, practice, design theory, structures, and personal goal setting. Guest speakers and an office visit will provide students a firsthand opportunity to observe multiple aspects of the profession.

Associate Degree Applicable

Transfers to both UC/CSU

ARCH 111 2 Units

Sketching and Design Visualization

Lecture: 18 contact hours

Lab: 54 contact hours

This introductory course in architectural visualization and drawing techniques will focus on how to communicate three-dimensional designs in a two-dimensional medium. Subjects and techniques include, orthographic projection, isometrics, basic one and two point perspectives, pralines, plan views, elevations, and line types. Emphasis on sketching and hand drafting and sketch-up media will be introduced in developing graphic skills.

Associate Degree Applicable

Transfers to both UC/CSU

ARCH 112 4 Units

Environmental Design

Lecture: 36 contact hours

Lab: 108 contact hours

This beginning architectural design course includes the perceptual and physical study of two and three-dimensional design theories, principles and compositional techniques used in the creation and manipulation of architectural form, space and light. Focus will be on the fundamental design skills and will progress to a three dimensional architectural design project including consideration of approach, transition and destination. Models, drawings and graphics will be utilized to study and communicate the design. (Formerly ARCH 100)

Associate Degree Applicable

Transfers to both UC/CSU

ARCH 113 4 Units

Environmental Design Communication

Lecture: 36 contact hours

Lab: 108 contact hours

Advisory: ARCH 111 and ENGL 101 or ENGL 101H

This is an advanced studio course that builds on a basic understanding of design communication, strengthening complexity and design intention in two and three-dimensional design and three-dimensional visualization techniques, including freehand sketching, graphic conventions, modeling, shade/shadow, color rendering, graphic presentations, and a magazine page project based presentation. This course is intended to provide the visual communications skills needed to describe architecture and participate in the design communication process. It is project-based with projects selected by the instructor to build a student's range of expression, while focusing on a variety of visualization techniques and media. (Formerly ARCH 101)

Associate Degree Applicable

Transfers to CSU only

ARCH 130 2 Units**Computer-Aided Design (CAD) Drafting****Lecture:** 18 contact hours**Lab:** 54 contact hours

This course introduces Computer-Aided Design (CAD) as used to produce two-dimensional architectural drawings. PCs with AutoCAD will be used and instruction will focus on using a computer to draw a simple project, including the following drawing types: floor plan, site plan, elevation, and enlarged section/details. Students should have basic knowledge of computer operation and file management.

Associate Degree Applicable**Transfers to CSU only****ARCH 131 2 Units****Introduction to Building Information Modeling (BIM)****Lecture:** 18 contact hours**Lab:** 54 contact hours**Advisory:** ARCH 130

This course introduces Building Information Modeling (BIM) as used to produce a three-dimensional architectural model with detailed construction information. PCs with Autodesk Revit will be used and instruction will focus on computer modeling a simple project and extracting construction documentation. Students should have basic knowledge of computer operation and file management.

Associate Degree Applicable**Transfers to CSU only****ARCH 133 2 Units****Introduction to 3D Modeling and Design****Lecture:** 18 contact hours**Lab:** 54 contact hours

This course introduces 3-D Modeling for design visualization using Rhino software. Hands-on instruction will focus on digitally modeling designs with rectilinear and non-rectilinear geometry, including preparing files for fabrication and presentation. Students should have basic knowledge of computers and file management.

Associate Degree Applicable**Transfers to CSU only****ARCH 145 3 Units****History of Architecture: Early Design Through Gothic****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This course is a survey of Western architectural history from the early Egyptians through the Gothic period, in addition to the eastern architecture of India, Japan and China. The course includes a comparative study of architecture and architects with emphasis on the people, locations, structures, materials, and methods of construction and additional influences on the built environment.

Associate Degree Applicable**Transfers to both UC/CSU****ARCH 145H 3 Units****History of Architecture: Early Design Through Gothic - Honors****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course is a survey of Western architectural history from the early Egyptians through the Gothic period, in addition to the eastern architecture of India, Japan and China. The course includes a comparative study of architecture and architects with emphasis on the people, locations, structures, materials, and methods of construction and additional influences on the built environment. This course is intended for students in the Honors Program, but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****ARCH 146 3 Units****History of Architecture: Renaissance Through Modern****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This is a survey course that covers the indigenous architecture in the Pre-Columbian Americas and the Western architectural history Renaissance period to modern times. This course includes a comparative study of architecture and architects with an emphasis on people, locations, structures, materials, and methods of construction.

Associate Degree Applicable**Transfers to both UC/CSU****ARCH 146H 3 Units****Architecture History: Renaissance to Modern - Honors****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This is a survey course that covers the indigenous architecture in the Pre-Columbian Americas and the Western architectural history Renaissance period to modern times. This course includes a comparative study of architecture and architects with an emphasis on people, locations, structures, materials, and methods of construction. This course is intended for students in the Honors Program, but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****ARCH 212 4 Units****Architectural Design and Theory II****Lecture:** 36 contact hours**Lab:** 108 contact hours**Prerequisite:** ARCH 112**Advisory:** ARCH 113

This course will explore architectural and environmental design relationships between various programmatic models, normative building types, and technological themes with emphasis on physical, cultural, and historic contexts. The student will develop creative design skills and problem solving techniques as they apply to the architectural and related profession. Prerequisite may be waived subject to portfolio review of recent (within 5 years) work by Architecture department. (Formerly ARCH 200)

Associate Degree Applicable**Transfers to both UC/CSU**

ARCH 213 4 Units**Architectural Design II****Lecture:** 36 contact hours**Lab:** 108 contact hours**Prerequisite:** ARCH 212

Advanced architectural design processes are explored in the urban setting, with the relationships between a variety of programmatic models, normative building types, and technological themes within specific physical, cultural and historic contexts. Focus is on advanced problems solving in spatial relationships, structures, and human requirements of advanced model building, based on challenging design criteria, communication and editing a design narrative. (Formerly ARCH 201)

Associate Degree Applicable**Transfers to both UC/CSU****ARCH 231 2 Units****Advanced Building Information Modeling (BIM)****Lecture:** 9 contact hours**Lab:** 81 contact hours

This course introduces Building Information Modeling (BIM) as used to produce a 3-dimensional architectural model with detailed construction information. PCs with Autodesk Revit will be used and instruction will focus on computer modeling a simple project and extracting construction documentation. Students should have basic knowledge of computer operation and file management as well as construction.

Associate Degree Applicable**Transfers to CSU only****ARCH 233 2 Units****Advanced 3D Modeling and Design****Lecture:** 18 contact hours**Lab:** 54 contact hours**Prerequisite:** ARCH 133

This course introduces fundamental skills of coding and 3-D computational design using Rhino software with additional plug-ins. Hands-on instruction will focus on parametrically modeling and testing design variations with rectilinear and non-rectilinear geometry, including preparing files for fabrication and presentation. Students should have basic knowledge of 3-D modeling.

Associate Degree Applicable**Transfers to CSU only**

Art (ART)

ART 098 1-4 Units**Art Work Experience****WRKEX:** 300 contact hours

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable**ART 100 3 Units****Art History: The Stone Age to the Middle Ages****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

The course is a survey of western art from the Stone Age to the Middle Ages. The course provides an overview of the art and architecture of the following periods: the Stone Age, Ancient Near East, Egypt, the Aegean, the Greek and Roman Empires, the Etruscans, the Byzantine Empire, the Medieval periods in Europe, Romanesque, and Gothic.

Associate Degree Applicable**Transfers to both UC/CSU****ART 102 3 Units****Art History: Renaissance to Present****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

The course is a survey of western art from the Renaissance through the 21st Century. Topics covered include 15th and 16th century Italian art; Renaissance and Baroque art; the Rococo movement; Romanticism; Realism; Impressionism; Cubism; Surrealism and other styles of the 19th, 20th, and 21st centuries.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ARTH 120**ART 102H 3 Units****Art History: Renaissance to Present - Honors****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

The course is a survey of western art from the Renaissance through the 21st Century. Topics covered include 15th and 16th century Italian art; Renaissance and Baroque art; the Rococo movement; Romanticism; Realism; Impressionism; Cubism; Surrealism and other styles of the 19th, 20th, and 21st centuries. This course is intended for students in the Honors Program, but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ARTH 120**ART 103 3 Units****Art Appreciation****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

The course is an introduction to two- and three-dimensional art from a multicultural perspective. Art in a historical and worldwide context, the function of art in society, art processes, and visual vocabulary are examined. Students will develop an increased appreciation of the differences and similarities among the styles, content, and expression of world art.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ARTH 100

ART 105 3 Units**History of Modern Art****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is a survey of the major stylistic movements, ideologies, and artists that comprise the Modern period in art from the 19th century through the 20th century. Traditional art forms and newer media are discussed, especially in relation to technological, cultural, political, racial and social histories.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ARTH 150**ART 107 3 Units****Art History: Africa, Oceania and the Americas****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

The course provides a survey of art from Africa, Oceania and the Americas. This includes an examination of the religious and social factors influencing art, artifacts, and architecture.

Associate Degree Applicable**Transfers to both UC/CSU****ART 108 3 Units****Art of Mexico and Mesoamerica****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

The course is a survey of Mexican and Mesoamerican art from Precolumbian times through the 21st century. Art will be evaluated and critiqued on historical content, subject matter, and aesthetics.

Associate Degree Applicable**Transfers to both UC/CSU****ART 120 3 Units****Two-Dimensional Design****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

The course is an introduction to basic principles, components, and terminology of two-dimensional design common in the visual arts. Course topics include the principles of design, elements of design, color theory, and an exploration of the creative process.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ARTS 100**ART 121 3 Units****Three-Dimensional Design****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ART 120 and ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is a study in the elements and principles of three-dimensional design. The focus is on concepts and their application with regards to spatial relationships and composition. Experimentation is in natural and synthetic materials such as but not limited to paper, clay, wood, plaster, and metal.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ARTS 101**ART 124A 3 Units****Beginning Drawing****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

The course is a progressive study of form, space, and concept employing a wide range of subject matter and traditional drawing media. Instruction focuses on perceptually based drawing, observational abilities and creative responses to traditional drawing materials and subject matter. Topics include the theory and analysis of perspective in two- and three-dimensional composition such as the various means of representing three-dimensional forms in space through aerial and linear perspective.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ARTS 110**ART 124B 3 Units****Intermediate Drawing****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 124A**Advisory:** ENGL 101 or ENGL 101H

This course is a review of essential concepts of drawing and the development of intermediate-level drawing skills. The focus of instruction will be on the development of an individual thematic approach to drawing and study of complex subject matter, advanced compositional concerns, advanced color theory, traditional and experimental drawing media and surfaces.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ARTS 205**ART 124C 3 Units****Advanced Drawing****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 124B**Advisory:** ENGL 101 or ENGL 101H

This class focuses on how to develop an original body of drawings in various subjects, media and surfaces that reflects knowledge of advanced drawing techniques with a focus on preparing their portfolio for upper division courses at the university and college level and display in the gallery environment. Typical subjects covered in this class will include developing a body of original artwork that expresses the students personal style, portfolio development for upper division coursework, gallery preparation, presentation of finished artwork with appropriate matting and framing, and writing a formal artist statement.

Associate Degree Applicable**Transfers to both UC/CSU****ART 126A 3 Units****Beginning Painting****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

The course is a progressive study of the fundamentals of painting and painting materials including techniques of composition, color theory, brushwork, and technique, as well as creative responses to materials and subject matter. Topics include the appropriate use of traditional color theory with artistic brush application on prepared surfaces.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ARTS 210

ART 126B 3 Units**Intermediate Painting****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 126A**Advisory:** ENGL 101 or ENGL 101H

This course is a review of essential concepts and skills of painting and the development of intermediate-level painting skills. Development of original concepts for painting and the study of complex subject matter, advanced compositional concerns, using alternative and experimental surfaces and media.

Associate Degree Applicable**Transfers to both UC/CSU****ART 126C 3 Units****Advanced Painting****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 126B**Advisory:** ENGL 101 or ENGL 101H

This course will focus on the development of an original body of paintings in various subjects, media and surfaces that reflects the student's knowledge of advanced painting techniques with an emphasis on preparing their portfolio for upper division courses at the university and college level and display in the gallery environment.

Associate Degree Applicable**Transfers to both UC/CSU****ART 132A 3 Units****Beginning Life Drawing****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

The course is an introduction to drawing the human figure and anatomy from observation using a wide variety of drawing media and techniques. Topics include an introduction to human anatomy, contour, proportions, gesture, and the historical and contemporary roles of figure drawing in the visual arts. Students in this course will learn both descriptive and interpretive approaches to drawing the figure. Drawings are based on a live nude model.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ARTS 200**ART 132B 3 Units****Intermediate Life Drawing****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 132A**Advisory:** ENGL 101 or ENGL 101H

This course is a review of essential concepts of figure drawing and development of intermediate-level figure drawing skills with an emphasis on accurate analysis of anatomy, essential structure and further use of traditional and non-traditional drawing materials and surfaces. The student will develop a portfolio of completed figure drawings with an emphasis on the study of advanced compositional concerns. Drawings are based on a live nude model.

Associate Degree Applicable**Transfers to both UC/CSU****ART 132C 3 Units****Advanced Life Drawing****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 132B**Advisory:** ENGL 101 or ENGL 101H

This course is a continuation of Art 132B. In this class students will develop an original body of life drawings in various media and surfaces that reflect their knowledge of advanced life drawing techniques with a focus on preparing their portfolio for upper division courses at the university and college level and display in the gallery environment. Typical subjects covered in this class will include developing a body of original artwork that expresses the students personal style, portfolio development for upper division coursework, gallery preparation, presentation of finished artwork with appropriate matting and framing, and writing a formal artist statement. Drawings are based on a live nude model.

Associate Degree Applicable**Transfers to both UC/CSU****ART 145 3 Units****Fundamentals of Graphic Design****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This course focuses on visual communication, the design process, and creative problem solving in a digital environment. Students explore the creative potential of computer technology and design software, and learn to design, analyze, discuss, and present work in a professional manner.

Associate Degree Applicable**Transfers to both UC/CSU****ART 148 3 Units****Beginning Computer Graphic Design****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This course is an introduction to the fundamental concepts, practices and theories of digital art and design. Topics include the integration of design elements and principles, color theory, composition, typography, visual communication, professional design practices and the use of contemporary digital tools and industry-standard software.

Associate Degree Applicable**Transfers to both UC/CSU****ART 149 3 Units****Intermediate Computer Graphic Design****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 148

This intermediate level course examines the role and application of computer graphics in visual communication, with an emphasis on more complex computer skills and design problems. Career goals are explored and students develop portfolios in digital and print formats.

Associate Degree Applicable**Transfers to both UC/CSU**

ART 161 3 Units**Digital Photography****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This introductory course focuses on photography as a creative medium. Emphasis in the course is on aesthetics, composition, content, technical and creative skills required to make effective images using digital cameras and computer software. Students also critically evaluate photographic images according to the principles of photographic theory. Students will supply their own camera.

Associate Degree Applicable**Transfers to both UC/CSU****ART 175A 3 Units****Beginning Sculpture****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This course is an introduction to three-dimensional sculptural principles, techniques, and concepts utilizing a wide range of materials and practices. Various sculpture methods are practiced with attention to creative self-expression and historical context.

Associate Degree Applicable**Transfers to both UC/CSU****ART 175B 3 Units****Intermediate Sculpture****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 175A**Advisory:** ENGL 101 or ENGL 101H

This course is the study of intermediate level sculpture techniques relating to three dimensional composition, spatial relationships, and imagery, with a focus on modeling techniques in clay and mixed media construction. A continued focus of attention to creative self-expression within both a historical and contemporary context is emphasized.

Associate Degree Applicable**Transfers to both UC/CSU****ART 175C 3 Units****Advanced Sculpture****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 175B**Advisory:** ENGL 101 or ENGL 101H

This course focuses on how to develop an original body of sculptural objects that reflects knowledge of advanced sculptural techniques. Students prepare their portfolio for upper division courses at the university and college level and display in the gallery environment. Typical subjects covered in this class will include developing a body of original artwork that expresses the students' personal style, portfolio development for upper division coursework, gallery preparation, and writing a formal artist statement.

Associate Degree Applicable**Transfers to both UC/CSU****ART 180 3 Units****Beginning 3D Computer Animation****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ART 120 and ART 124A and ART 148

This course focuses on beginning techniques in 3D animation. Students are introduced to 3D design, rendering, key frame animation, and lighting.

Associate Degree Applicable**Transfers to CSU only****ART 185 3 Units****Beginning Website Design****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 148

This course focuses on the elements of website production, including eXtensible HyperText Markup Language (XHTML) and Cascading Style Sheets (CSS). The course emphasizes preparing web content and designing website layouts in Adobe DreamWeaver. Practical and theoretical understanding of problems related to digital technologies are presented.

Associate Degree Applicable**Transfers to CSU only****ART 186 3 Units****Interactive Web Design****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 185

This course focuses on designing and creating websites for multiple screen devices while highlighting the user experience. Emphasis is on design concepts, as well as an understanding of structure, web media impact and social media marketing.

Associate Degree Applicable**Transfers to CSU only****ART 212A 3 Units****Beginning Ceramics****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This course is an introduction to ceramics materials, concepts, and processes including basic design principles, creative development, hand-building, throwing, glaze techniques, firing and ceramic terminology. The course covers aesthetics and creative development of clay objects examining historical, contemporary, and personal modes of expression across cultures.

Associate Degree Applicable**Transfers to both UC/CSU****ART 212B 3 Units****Intermediate Ceramics****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 212A**Advisory:** ENGL 101 or ENGL 101H

This course builds on and extends skills and abilities students gain from the introduction course. Emphasis is placed on projects that require students to collaborate and explore a wide variety of topics. Students will use methods and fabrication techniques that are focused on production and have commercial applications.

Associate Degree Applicable**Transfers to both UC/CSU**

ART 212C 3 Units**Intermediate/Advanced Ceramics****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 212B**Advisory:** ENGL 101 or ENGL 101H

This course focuses on the science of ceramic art. Students will study, classify, and understand information/data related to the history and chemistry of clay and glazes. They will learn classic methods of compounding glazes by mathematical and chemical calculation; deducing facts and basic principles essential to glaze analysis of constituent materials. Under supervision students will experiment, assess and gain knowledge that applies to the maintenance, operation, and controlled results of firing kilns.

Associate Degree Applicable**Transfers to both UC/CSU****ART 212D 3 Units****Advanced Ceramics****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 212C**Advisory:** ENGL 101 or ENGL 101H

This course examines ideas, activities, and circumstances that lead to pre-professional ends with an emphasis on developing a personal style and artistic vision. Demonstrations of advanced levels with a focus on portfolio development along with studio operations will be explored. This course is designed for the advanced student who is motivated to pursue a professional path. A written analysis of a current ceramic exhibition is required.

Associate Degree Applicable**Transfers to both UC/CSU****ART 240A 3 Units****Beginning Glassblowing****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This course is a beginning study of glass working techniques, including designing and producing vessel and sculptural forms in hot glass. Emphasis is on exploration of color, hot applications, team work, repeatable forms, sandblasting, cold working/fabrications, and non-conventional methods.

Associate Degree Applicable**Transfers to both UC/CSU****ART 240B 3 Units****Intermediate Glassblowing****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 240A**Advisory:** ENGL 101 or ENGL 101H

This course is an intermediate study of hot glassworking techniques with an emphasis on developing and refining skills based on design and form. Demonstrations of intermediate techniques include team glassblowing, use of molds and repeatable forms, geared towards acquiring competence in studio management and production.

Associate Degree Applicable**Transfers to both UC/CSU****ART 240C 3 Units****Intermediate/Advanced Glassblowing****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 240B**Advisory:** ENGL 101 or ENGL 101H

This course is an intermediate/advanced study of glassworking techniques with an emphasis on the exploration of color design. Demonstrations of advanced color techniques will include graal, encalmo, cone work (Filigrana, Zanfrico) and murrin.

Associate Degree Applicable**Transfers to both UC/CSU****ART 240D 3 Units****Advanced Glassblowing****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 240C**Advisory:** ENGL 101 or ENGL 101H

This course is an advanced study of glassblowing techniques. This class uses glass as an integral part of the artistic vision. Students will observe demonstrations and work both individually and within groups to develop a body of work. Emphasis is on exploration, personal narrative, both traditional and non-conventional glassblowing methods, installations, etc.

Associate Degree Applicable**Transfers to both UC/CSU****ART 270A 3 Units****Beginning Design in Glass****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This course is a study of beginning glass-working techniques. Topics include producing functional, decorative, and sculptural forms in kiln-fired glass; composition in two dimensions using fusion/lamination of colored glass elements; and lampworked beads.

Associate Degree Applicable**Transfers to both UC/CSU****ART 270B 3 Units****Intermediate Design in Glass****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 270A**Advisory:** ENGL 101 or ENGL 101H

This course is a study of intermediate glass-working techniques. Topics include designing and producing increasingly complex projects, techniques in fused glass, kiln controls, forming lost wax molds, and increasing complex soldering and lampworking.

Associate Degree Applicable**Transfers to both UC/CSU****ART 270C 3 Units****Intermediate/Advanced Design in Glass****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 270B**Advisory:** ENGL 101 or ENGL 101H

This course is a study of intermediate/advanced glass-working techniques. Topics include designing and producing increasingly complex projects, using different compatible materials, experimental techniques, monitoring live slumping of glass and cold-working glass.

Associate Degree Applicable**Transfers to both UC/CSU**

ART 270D 3 Units**Advanced Design in Glass****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ART 270C**Advisory:** ENGL 101 or ENGL 101H

This course is a study of advanced glass-working techniques. Topics include advanced mold making, casting glass, communication of creative ideas, demonstration of critical thinking skills, establishing theme and applying appropriate finishing techniques.

Associate Degree Applicable**Transfers to both UC/CSU**

Astronomy (ASTRON)

ASTRON 120 3 Units**Introduction to Astronomy****Lecture:** 54 contact hours**Advisory:** MATH 095 or MATH 096 and ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This is an introduction to astronomy, the ultimate adventure. Our very big universe can be described by a small set of knowable rules through a logical method called science, where the excitement of an evolving and sometimes violent universe of stars and galaxies is explored. Topics include the night sky, motions of the Sun, the Moon, and the planets, light, properties and life cycles of stars with a detailed look at our Sun, galaxies, and the origin of the universe.

Associate Degree Applicable**Transfers to both UC/CSU****ASTRON 125 1 Unit****Astronomy Laboratory****Lab:** 54 contact hours**Prerequisite/Corequisite:** ASTRON 120

This course is the companion course to ASTRON 120 Introduction to Astronomy. Laboratory work provides a hands-on enrichment and deeper understanding of topics discussed in the astronomy lecture. Topics include use of star maps, identification of constellations, determination of orbits, rotation rate, and mass of celestial objects using astronomical methods of observation and analysis. Students will also perform 3-D modeling of the solar system and constellations, study the nature of light, lenses and telescopes, make some direct observations with telescopes, and utilize astronomical software.

Associate Degree Applicable**Transfers to both UC/CSU****ASTRON 222 1-3 Units****Independent Study in Astronomy****DIR:** 54 contact hours**Prerequisite:** ASTRON 120**Advisory:** ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

Students with previous course work in Astronomy may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of Astronomy. Prior to registration, a written contract must be prepared jointly by the instructor and the student.

Associate Degree Applicable**Transfers to CSU only**

Automotive Interiors (AUTOIN)

AUTOIN 010 4 Units**Basic Auto Upholstery****Lecture:** 36 contact hours**Lab:** 108 contact hours

This course offers students basic theory and practical experience in creating custom automotive interiors. Safe work practices and the use of tools to develop, cut, sew and fit are emphasized.

Associate Degree Applicable**AUTOIN 012 4 Units****Advanced Custom Auto Interiors****Lecture:** 36 contact hours**Lab:** 108 contact hours

This course offers advanced level instruction on theory and installation of custom and hot rod automotive interiors. Safe work practices and the use of tools to design, cut, sew and fit complex interiors are emphasized.

Associate Degree Applicable**AUTOIN 610 Noncredit****Basic Auto Upholstery****Lecture:** 36 contact hours**Lab:** 108 contact hours

This noncredit course offers students basic theory and practical experience in creating custom automotive interiors. Safe work practices and the use of tools to develop, cut, sew and fit are emphasized.

AUTOIN 612 Noncredit**Advanced Custom Auto Interiors****Lecture:** 36 contact hours**Lab:** 108 contact hours

This noncredit course offers advanced level instruction on theory and installation of custom and hot rod automotive interiors. Safe work practices and the use of tools to design, cut, sew and fit complex interiors are emphasized.

Automotive Technology (AUTO)

AUTO 010 4 Units**Introduction to Hybrid and Electric Vehicle Technology****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course explores the use of hybrid and electric battery power for vehicle transportation. Topics will include safety when using high voltage, maintenance, drivability, inverter, AC/DC power transfer and battery technology, physics of battery storage and hybrid generation systems. Electric vehicle applications and their integrated systems from many manufacturers will be discussed.

Associate Degree Applicable**AUTO 020 6 Units****Non-Structural Body Repair****Lecture:** 90 contact hours**Lab:** 54 contact hours

This course covers theory and practical experience in automotive collision damage repair and shop safety with a focus on automotive construction, regulations, oxyacetylene and Metal Inert Gas (MIG) welding, surface preparation, basic spray painting, and detailing. This course may be used in preparation for the Automotive Service Excellence (ASE) National Test B-3.

Associate Degree Applicable

AUTO 022 6 Units**Non-Structural Collision Repair****Lecture:** 90 contact hours**Lab:** 54 contact hours

This course covers theory and practical experience in automotive collision damage repair and shop safety with a focus on laws and regulations, refinishing techniques, Metal Inert Gas (MIG) welding and steering, suspension and vehicle alignment, and Hybrid and electric vehicle safety procedures. This course may be used in preparation for the Automotive Service Excellence (ASE) National B3 Test.

Associate Degree Applicable**AUTO 024 6 Units****Structural Analysis and Damage Repair****Lecture:** 90 contact hours**Lab:** 54 contact hours**Advisory:** AUTOST 010 and AUTO 022

This course covers theory and practical experience in auto collision repair and shop safety, with a focus on Metal Inert Gas (MIG) welding, panel replacement, theory and practical experience in minor uni-body frame measuring and repair, basic hybrid body repair, and hybrid and electric vehicle safety procedures. This course may be used in preparation for the Automotive Service Excellence (ASE) National B4 Test.

Associate Degree Applicable**AUTO 026 6 Units****Auto Collision Refinishing****Lecture:** 90 contact hours**Lab:** 54 contact hours**Advisory:** AUTOST 010 and AUTO 022

This course covers theory and practical experience in automotive collision repair and refinishing, shop safety practices, personal safety, and health protection as outlined by Environmental Protection Agency (EPA) and South Coast Air Quality Management District (SCAQMD). Topics include Sheet Molded Compound (SMC) panel replacement; heat reshaping plastic parts; electrical and electronic systems; single-, two-, and three-stage refinishing systems; spot repairing/blending; polishing; detailing; estimating; and custom painting. This course may be used in preparation for the Automotive Service Excellence (ASE) National Test B2.

Associate Degree Applicable**AUTO 030 5 Units****Mechanical Technology for the Collision Specialist****Lecture:** 72 contact hours**Lab:** 54 contact hours

This course is an intense overview of the mechanical aspects of a vehicle as it pertains to Collision industry. Subjects covered are A/C, Electrical, SRS (Safety Restraint Systems), front end geometry and hybrid and electrical vehicle safety.

Associate Degree Applicable**AUTO 050 4 Units****Automotive Brakes****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course is based on National Automotive Technicians Education Foundation (NATEF) standards and is designed for students and current technicians to gain knowledge and skills in automotive brake (standard and antilock) systems. Topics include, but are not limited to, disc, drum, hydraulics, power boosters, and traction control with emphasis on diagnosing, troubleshooting, repairing, replacing, and adjusting. This course may be used in preparation for the Automotive Service Excellence (ASE) National Test A-5.

Associate Degree Applicable**AUTO 051 4 Units****Advanced Automotive Brakes****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** AUTO 050

This course is based on National Automotive Technicians Education Foundation (NATEF) standards and is designed for students and current technicians to gain advanced knowledge and skills in the theory and practical work in the repair of automotive brake systems. Topics include safety, machinery, procedures for troubleshooting and reconditioning brake systems, advanced study of disc, drum, hydraulics, and power boosters systems with emphasis on antilock brakes, traction control, and machining.

Associate Degree Applicable**AUTO 052 4 Units****Automotive Suspension and Steering****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course is based on National Automotive Technicians Education Foundation (NATEF) standards and is designed for students and current technicians to gain knowledge and skills in automotive chassis and suspension systems. Topics include, but are not limited to, suspension types, basic geometry, alignment angles, and two- and four-wheel alignment using both computerized and mechanical methods. Emphasis is on diagnosing, troubleshooting, repairing, replacing, and adjusting. This course may be used in preparation for the Automotive Service Excellence (ASE) National Test A-4.

Associate Degree Applicable**AUTO 053 4 Units****Advanced Automotive Suspension and Steering****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** AUTO 052

This course is designed for students and current technicians to gain advanced knowledge and skills in automotive chassis and suspension systems. Topics include, but are not limited to, suspension design, advanced geometry, alignment angles, and four-wheel alignment using computerized methods. Emphasis is on diagnosing, troubleshooting, repairing, replacing, and adjusting.

Associate Degree Applicable**AUTO 056 4 Units****Automotive Heating and Air Conditioning****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course is an in-depth study of the design and operation of contemporary, domestic and import vehicle air conditioning/heating systems. Air conditioning and heating related parts will be disassembled, inspected and a determination made of the serviceability of existing parts. Emphasis is placed on problem diagnosis of and repair procedures for these systems. This course also offers an introduction to Automatic A/C and Comfort Control Systems, and recovery and recycling of refrigerants.

Associate Degree Applicable

AUTO 064 4 Units**Auto/Truck Electrical Systems****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course covers basic electrical theory, use of meters, test equipment, wiring diagrams, diagnosis and repair/replacement of major electrical components of automobiles and trucks. Emphasis is placed on diagnosis of starting systems, charging systems, and electrical circuits such as lights and batteries.

Associate Degree Applicable**AUTO 065 5 Units****Electrical Systems Diagnosis and Repair****Lecture:** 72 contact hours**Lab:** 54 contact hours

This course provides students with the knowledge necessary to diagnose and repair automotive electrical malfunctions. Topics include lighting systems, electrical instruments and accessories, electrical door components, air bags, wiring diagrams, and alarm systems. Emphasis is placed on problem diagnosis of and repair procedures for these systems.

Associate Degree Applicable**AUTO 066 4 Units****ASE Alternative A-6, A-8, L-1 Prep Or Certificate****Lecture:** 54 contact hours**Lab:** 54 contact hours

Automotive Service Excellence (ASE) alternative course is designed for students wishing to meet the Bureau of Automotive Repair (BAR) requirements to become a Smog Technician in lieu of ASE certificates or as a preparation for ASE testing. Subject areas include reviewing of A-6 Electrical and Electronics, A-8 Engine Performance, and L-1 Advanced Engine Performance. Students wishing alternative certificate will be asked to pay for testing services for each test; State certificate expires at the end of five years.

Associate Degree Applicable**AUTO 067 4 Units****Engine and Emission Control Fundamentals****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course provides students with the information and skills necessary to complete a smog inspection and perform repairs in the basic and advanced inspection areas according to the Bureau of Automotive Repair (BAR) guidelines. The course includes engine and emission controls (Level 1), smog check (Level 2) training in inspection procedures, and Hybrid and electric vehicle safety procedures. Upon satisfactory completion of the course, students receive a state certificate for both Level 1 and Level 2.

Associate Degree Applicable**AUTO 068 5 Units****Engine Performance - Ignition Systems****Lecture:** 72 contact hours**Lab:** 54 contact hours

This course provides an in-depth study of the design and operation of domestic and import ignition systems. Major areas of study include point type, electronic, and computer control ignition systems. Emphasis is placed on the correct diagnosis of and repair procedures for these systems. The use of current diagnostic test equipment used in today's industry and strategies necessary to determine needed repairs are covered.

Associate Degree Applicable**AUTO 069 5 Units****Engine Performance - Fuel and Exhaust Systems****Lecture:** 72 contact hours**Lab:** 54 contact hours

This course is an in-depth study of the design and operation of fuel management systems including domestic and import feedback carburetor, fuel injection and computer control fuel management systems. This course covers the diagnosis and repair/replacement of major components: all sensors, injectors, fuel pumps, and interpretation of computer related malfunctions. The use of current diagnostic test equipment used in today's industry and strategies necessary to determine needed repairs are covered.

Associate Degree Applicable**AUTO 075 4 Units****Automatic Transmissions Rear Wheel Drive****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course covers theory and practical work on rear wheel drive automatic transmissions in automobile and light truck applications. The course offers training to prepare for the Automotive Service Excellence (ASE) A2 certification test.

Associate Degree Applicable**AUTO 076 4 Units****Automatic Transaxles Front Wheel Drive****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course covers theory and practical work on front wheel drive automatic transaxles in automobile applications. The course offers training to prepare for the Automotive Service Excellence (ASE) A2 certification test.

Associate Degree Applicable**AUTO 077 4 Units****Manual Transmissions and Transaxles****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course covers theory and practical work on front wheel drive manual transaxles and rear wheel drive manual transmissions in automobile and light truck applications including transfer cases, axle assemblies, and clutches.

Associate Degree Applicable**AUTO 084 4 Units****General Automotive Technology****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course covers general theory, principles, and service procedures relating to an introduction to automotive systems and maintenance with emphasis on component identification, basic functions, minor maintenance, and service.

Associate Degree Applicable**AUTO 090 6 Units****Engine Repair****Lecture:** 54 contact hours**Lab:** 162 contact hours

This course covers theory and practical work in the repair and rebuilding of automotive engines, removal, disassembly, inspection, reconditioning and reassembling of engines, rebuilding of components using automotive machine shop equipment and failure analysis of components. This course may be used in preparation for the Automotive Service Excellence (ASE) National Test A-1.

Associate Degree Applicable

AUTO 098 1-4 Units**Automotive Technology Work Experience Experience****WRKEX:** 300 contact hours

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable**AUTO 620 Noncredit****Non-Structural Body Repair****Lecture:** 90 contact hours**Lab:** 54 contact hours

This noncredit course covers theory and practical experience in automotive collision damage repair and shop safety with a focus on automotive construction, regulations, oxyacetylene and Metal Inert Gas (MIG) welding, surface preparation, basic spray painting, and detailing. This course may be used in preparation for the Automotive Service Excellence (ASE) National Test B-3.

Biology (BIOL)

BIOL 100 4 Units**General Biology****Lecture:** 54 contact hours**Lab:** 54 contact hours

Advisory: ENGL 101 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This is an introductory course for non-majors emphasizing the scientific method in investigating the origins, physiology, ecological roles, and comparative characteristics of living organisms.

Associate Degree Applicable**Transfers to both UC/CSU****BIOL 102 3 Units****Human Biology****Lecture:** 54 contact hours

Prerequisite: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This is an introductory course that introduces biological principles with an emphasis on the human body. Topics include cell biology, histology, major body systems, genetics and heredity, human interaction with the environment, and major human diseases.

Associate Degree Applicable**Transfers to both UC/CSU****BIOL 104 3 Units****Human Ecology****Lecture:** 54 contact hours

Prerequisite: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

The course presents the ecological consequences of human resource use and population growth. Emphasis is placed on earth's life support systems and current environmental problems threatening human health and species survival.

Associate Degree Applicable**Transfers to both UC/CSU****BIOL 109 4 Units****History of Life****Lecture:** 54 contact hours**Lab:** 54 contact hours

Advisory: ENGL 101 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This is an introductory course exploring the history of life on earth. The role of natural selection and evidence from geology, biogeography, and paleontology will be combined with fossils and recent organisms to interpret the clues of life's history on earth.

Associate Degree Applicable**Transfers to both UC/CSU****BIOL 109H 4 Units****History of Life - Honors****Lecture:** 54 contact hours**Lab:** 54 contact hours

Advisory: ENGL 101 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This is an introductory course exploring the history of life on earth. The role of natural selection and evidence from geology, biogeography, and paleontology will be combined with fossils and recent organisms to interpret the clues of life's history on earth. This course is intended for students in the Honors Program but is open to all students who desire more challenging coursework.

Associate Degree Applicable**Transfers to both UC/CSU****BIOL 140 2 Units****Biology of Sexually Transmitted Diseases****Lecture:** 36 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is an examination of the social, economic, psychological, medical and legal issues surrounding sexually transmitted diseases. The topics include the pathogenesis, diagnosis and treatment of prominent sexually transmitted diseases including the impact of current biotechnology on vaccine development, treatment and diagnostics. The historical and changing attitudes and measures toward the control of sexually transmitted diseases will be reviewed.

Associate Degree Applicable**Transfers to both UC/CSU****BIOL 141 3 Units****Genetics****Lecture:** 54 contact hours

Prerequisite: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is a general introduction to the fundamentals of human heredity. Topics include patterns of inheritance, the structure of DNA and its function, the role mutations play in genetic diseases and cancer, the interaction between genes and the environment, and recent advances in biotechnology and its impact on society.

Associate Degree Applicable**Transfers to both UC/CSU**

BIOL 155 4 Units**Introductory Anatomy and Physiology****Lecture:** 54 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H as determined by the SBVC assessment process and MATH 096 or eligibility for MATH 095 as determined by the SBVC assessment process.

This course is a one-semester introduction to human anatomy and physiology. The course is intended to meet the prerequisite for students entering the Psychiatric Technician program or other professional programs that accept a lecture/lab course in human anatomy and physiology.

Associate Degree Applicable**Transfers to CSU only****BIOL 205 4 Units****Cell and Molecular Biology****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite/Corequisite:** CHEM 150 or CHEM 150H**Prerequisite:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process and MATH 095 or eligibility for MATH 102 as determined by the SBVC assessment process.**Advisory:** ENGL 101 or ENGL 101H or eligibility for ENGL 102 OR ENGL 102H as determined by process.

This course is an introduction to cellular and molecular aspects of biology emphasizing principles of scientific process, evolution by natural selection, prokaryotic and eukaryotic cell structure and function, classic and modern genetics, and concepts that integrate cellular with organismal activities. Experimental design concepts and application are emphasized in the laboratory. This is a first semester of a three-semester sequence in introductory biology for the pre-professional, biology major, or others interested in an in-depth study of biology. (Formerly BIOL 201)

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** BIOL 190/135S**BIOL 206 4 Units****Organismal Biology****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** BIOL 205 and CHEM 150 or CHEM 150H and MATH 095 or eligibility for MATH 102 as determined by the SBVC assessment process.**Advisory:** ENGL 101 or ENGL 101H or eligibility for ENGL 102 or ENGL 102H as determined by the SBVC assessment process.

This course is an introduction to the diversity of organisms, their structure, function, and adaptations to the environment. The course requires participation in field trips. This course is part of a three-semester sequence in introductory biology for the pre-professional, biology major, or others interested in an in-depth study of biology.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** BIOL 140/130S/135S**BIOL 207 4 Units****Evolutionary Ecology****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** BIOL 205 and MATH 095 or eligibility for MATH 102 as determined by the SBVC assessment process and CHEM 150 or CHEM 150H.**Advisory:** ENGL 101 or ENGL 101H or eligibility for ENGL 102 or ENGL 102H as determined by the SBVC assessment process.

This course is an introduction to the principles of evolution and the ecological processes governing organisms and populations. The course is intended for the pre-professional or biology major. The course requires participation in and completion of a field project and participation in weekend field trips. This course is part of a three-semester sequence in introductory biology for the pre-professional, biology major, or others interested in an in-depth study of biology.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** BIOL 130S/135S**BIOL 222 1-3 Units****Independent Study in Biology****DIR:** 54 contact hours

Students with previous course work in biology may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of Biology. Prior to registration, a contract must be prepared. See instructor for details.

Associate Degree Applicable**Transfers to CSU only****BIOL 250 4 Units****Human Anatomy and Physiology I****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.**Advisory:** BIOL 100

This is the first semester of a two-semester sequence that introduces students to the basic concepts and principles of human anatomy and physiology. This course provides a foundation for pre-allied professional majors or others interested in the advanced study of human biology. Topics include inorganic and organic chemistry, body orientation and organization, cytology, histology, fluid and electrolyte balances, and the following systems: nervous, skeletal, muscular, nervous, digestive system, and metabolism. Course includes dissections of preserved specimens.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** BIOL 115 BS

BIOL 251 4 Units**Human Anatomy and Physiology II****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** BIOL 250 and CHEM 101 or CHEM 105**Advisory:** BIOL 100

This is the second semester of a two-semester sequence that introduces students to the basic concepts and principles of human anatomy and physiology. This course provides a foundation for pre-professional majors or others interested in the advanced study of human biology. Topics include fluid and electrolyte balance and the following body system: integumentary, cardiovascular, lymphatic, respiratory, urinary, endocrine, and reproductive. The course includes dissections of preserved specimens.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** BIOL 115 BS**BIOL 260 4 Units****Human Anatomy****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** MATH 095 or MATH 096**Advisory:** BIOL 100 and eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This is a comprehensive lecture/laboratory course in human anatomy. It is organized to explore the body both regionally and systemically. The course studies gross anatomy with an extensive dissection of the cat and other significant organs. Relevant comparisons to human systems and structures is emphasized in the laboratory portion of the course. Histological and cellular anatomy are included as they apply to various structures and systems.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** BIOL 110B**BIOL 261 4 Units****Human Physiology****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** BIOL 260 and CHEM 105 or CHEM 101**Advisory:** BIOL 100

This course is the second semester of a two-semester sequence. It builds on an understanding of structure to explain the dynamic functions of the human body to a cellular level. Topics include physiology of the following systems: muscular, skeletal, nervous, endocrine, cardiovascular, respiratory, digestive, urinary, and reproductive. Homeostatic mechanisms and the interrelationships of body organ systems are emphasized and enhanced with clinical illustrations.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** BIOL 120B**BIOL 270 5 Units****Microbiology****Lecture:** 54 contact hours**Lab:** 108 contact hours**Prerequisite:** BIOL 205 or CHEM 101**Advisory:** BIOL 100 and ENGL 101 or ENGL 101H

This course is a formal introduction to the fundamental principles of microbiology and immunology. Attention is given to the morphology, control, metabolism and genetics of microorganisms. Emphasis is placed on the pathogenesis of and immunity to infectious diseases.

Associate Degree Applicable**Transfers to both UC/CSU**

Business Administration (BUSAD)

BUSAD 039 3 Units**Strategies for Successful Employment****Lecture:** 54 contact hours**Advisory:** CIT 010

This course is designed to help students develop the skills needed to successfully seek employment, including job search strategies, career paths, cover letter and resume writing, mock interviews, job applications, and positive workplace attitudes.

Associate Degree Applicable**BUSAD 050 3 Units****Business Math****Lecture:** 54 contact hours**Advisory:** MATH 962

This course covers fundamental mathematical calculations and their application to business problems. Topics include payroll, pricing, interest and discount, commission, taxes, and other pertinent uses of mathematics in the field of business.

Associate Degree Applicable**BUSAD 098 1-4 Units****Business Administration Work Experience****WRKEX:** 300 contact hours

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable**BUSAD 100 3 Units****Introduction to Business****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course will introduce students to the fundamental concepts of business in a changing world. It includes an overview of such areas as economic systems, management, marketing, accounting, finance, ethics, ownership, organization of business, the legal aspects and regulation of business, as well as globalization.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** BUS 110

BUSAD 103 3 Units**Marketing Principles****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course covers the basic principles and methods of marketing as practiced by all successfully managed business firms. This course is management-oriented, covering demand analysis, forecasting, product development, price determination, distribution channels, material handling, advertising and personal selling.

Associate Degree Applicable**Transfers to CSU only****BUSAD 105 3 Units****Small Business Management/Entrepreneurship****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course is designed for business majors and non-business majors who desire a greater knowledge of the fundamentals specifically related to the opening and operation of a small business. The course is designed to provide a working knowledge of the pitfalls associated with small business operations and how to recognize, prevent and solve problems.

Associate Degree Applicable**Transfers to CSU only****BUSAD 106 3 Units****Principles of Selling****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course covers the problems of analyzing the sales talk, making an adequate approach, meeting objectives, excuses and techniques of closing the sale, and the psychology involved in selling services, goods, ideas and one's own personality.

Associate Degree Applicable**Transfers to CSU only****BUSAD 108 3 Units****Personal Finance, Investments and Estate Planning****Lecture:** 54 contact hours

This course is an integrated approach to personal finance focusing on practical financial decision making as well as the social, psychological, and physiological contexts in which those decisions are made. The student will examine the preparation for managing one's personal finances, including financial planning, income and expense management, investment analysis, retirement planning, consumerism, long-term care, estate planning, credit management, home ownership, death and taxes.

Associate Degree Applicable**Transfers to CSU only****BUSAD 110 3 Units****Human Resource Management****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course is a survey of the objectives, functions and practices in the management of employee relations, and the impact of employee relations on the effective achievement of the organization's goals.

Associate Degree Applicable**Transfers to CSU only****BUSAD 112 3 Units****Principles of Retailing****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course will cover the role of retailing in serving the needs of the community. The topics will include analysis of consumer needs, store locations, financial requirements and legal processes of starting a retail operation, planning for store layout, merchandise mix, vendor negotiation, pricing, displaying, advertising, selling and controlling of merchandise.

Associate Degree Applicable**Transfers to CSU only****BUSAD 120 3 Units****Business Management/Leadership****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course is designed for business majors and examines the primary dimensions of the management process including planning, organizing, decision-making and controlling organizational activity. Development of effective management and leadership skills through hands-on simulation exercises.

Associate Degree Applicable**Transfers to CSU only****BUSAD 127 3 Units****Business Communication****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course is a study of the principles and role of business communication and the need for communication skills in a global marketplace. Emphasis is placed on written communications, including business letters, proposals, resumes and other business documents. A considerable amount of time is devoted to planning, organizing, outlining, grammar and writing style.

Associate Degree Applicable**Transfers to CSU only****C-ID:** BUS 115**BUSAD 151 3 Units****Human Relations****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course provides a basic understanding of human interactions in the workplace, focusing on the roles of the individual, the group, and the organization as a whole.

Associate Degree Applicable**Transfers to CSU only****BUSAD 210 3 Units****Business Law****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course explores the legal environment in which business operates. It includes an introduction to law and legal reasoning, ethics, torts, strict and products liability, criminal law and contracts. Special emphasis is placed on acquiring a working knowledge of the rules for contracting in general and the modifications applicable under the Uniform Commercial Code for the sale of goods.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** BUSAD 125

BUSAD 211 3 Units**The Legal Environment of Business****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course includes a broad overview of the legal environment of business. Areas of employment regulation, consumer protection, environmental law, land-use control, sole proprietorships, partnerships, corporations, antitrust, securities regulation, comparative and international law are studied.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** BUS 120**BUSAD 222 1-3 Units****Independent Study in Business Administration****DIR:** 54 contact hours

Students with previous course work in Business Administration may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of Business Administration. Prior to registration, a written contract must be prepared jointly by the instructor and the student. See instructor for details.

Associate Degree Applicable**Transfers to CSU only****BUSAD 601 Noncredit****Finding and Landing a Job****Lecture:** 8 contact hours**Lab:** 16 contact hours

This course provides basic job searching and job application skills for individuals who have not been employed before or have been out of the workforce for an extended period of time. Topics include matching skills and interests to available jobs, prospecting for a job, creating a resume and cover letter, applying for a job, and interviewing. This course is recommended for individuals are looking for a job with no prior or limited prior work experience and individuals who have been out of the workforce for a significant period of time.

BUSAD 602 Noncredit**Working in a Business Office****Lecture:** 12 contact hours**Lab:** 24 contact hours

This course provides a basic working knowledge of business office procedures and tasks. Topics include effective business writing, business documents, and filing. This course is recommended for individuals who wish to seek an entry-level position as an office clerk.

BUSAD 604 Noncredit**Preparing to Be an Entrepreneur****Lecture:** 6 contact hours

This noncredit course is designed to help students discover and develop the personal attributes needed to become or to improve being a successful entrepreneur. The core of the course focuses on what it takes to become a true entrepreneur. The student will begin to understand the competencies required to be an entrepreneur through case studies, creative problem solving, and exercises aimed at self-development. Students will learn the responsibilities, the benefits and the pitfalls that await an entrepreneur.

BUSAD 605 Noncredit**Creating the Business Concept****Lecture:** 10 contact hours

This noncredit course provides a basic understanding of how to create each component of a Business Plan, including the SWOT Analysis (Strengths, Weaknesses, Opportunities, & Threats). The student will examine the industry that incorporates their business and will look at potential forces that may impact its success. They will examine the customer base and competition and discuss how to produce revenue and growth and will examine the financial situation, with a projection of the company's financial future.

BUSAD 606 Noncredit**Building the Business****Lecture:** 6 contact hours

This noncredit course teaches students the steps to take after the business plan is developed. It will give students the skills to find consulting and financial resources for their business in the Inland Empire, while teaching how social media and technology are critical to today's business culture.

BUSAD 607 Noncredit**Finding Customers/Marketing****Lecture:** 10 contact hours

This noncredit course teaches students the concepts of marketing, building a customer base and a customer service program. This course provides a basic understanding of how to create a marketing plan, strategy and implementation.

BUSAD 608 Noncredit**Finance, Taxes and Human Resources****Lecture:** 10 contact hours

This noncredit course provides a basic understanding of small business finance, taxes, and human resources. It also covers government regulations, payroll, and practices for hiring and keeping the best employees.

BUSAD 609 Noncredit**Management and Operations****Lecture:** 6 contact hours

This noncredit course provides a small business owner with the information needed to be an excellent manager and how to run their business efficiently. Students will learn how to negotiate contracts with customers and vendors. Students will also learn management techniques on how to motivate employees.

Chemistry (CHEM)

CHEM 101 4 Units**Introductory Chemistry****Lecture:** 54 contact hours**Lab:** 54 contact hours

Prerequisite/Corequisite: ENGL 101 or ENGL 101H or READ 100 and MATH 102 or eligibility for MATH 151 or higher as determined by the SBVC assessment process.

This comprehensive course provides a foundation for the concepts of chemistry. Some of the areas studied include the physical and chemical properties of common elements and compounds, the metric system, measurements and conversions, atomic structure, the periodic table, chemical equations and calculations, gases, solutions, ionization, and an introduction to organic and biochemistry.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** CHEM 101

CHEM 104 4 Units**Introduction to Organic Chemistry and Biochemistry****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** CHEM 101

This course is an introduction to the bonding, naming, structure, and chemical and biomolecular properties for different classes of organic compounds and biomolecules, with a focus on their cellular, medicinal and industrial importance.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** CHEM 102**CHEM 105 5 Units****Introduction to General, Organic And Biochemistry****Lecture:** 54 contact hours**Lab:** 108 contact hours**Prerequisite/Corequisite:** ENGL 101 or ENGL 101H or READ 100 and MATH 102 or eligibility for MATH 151 or higher as determined by the SBVC assessment process.

This course provides a foundation for the concepts of general, organic, and biochemistry for students who wish to pursue allied health fields such as nursing. Some of the areas studied include the physical and chemical properties of common elements and compounds, the metric system, measurements and conversions, atomic structure, the periodic table, chemical equations and calculations, gases, solutions, electrolytes as well as an introduction to the bonding, naming, structure, and chemical and biological properties for different classes of organic compounds and biomolecules, with a focus on their cellular, medicinal and commercial importance.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** CHEM 102**CHEM 150 5 Units****General Chemistry I****Lecture:** 54 contact hours**Lab:** 108 contact hours**Prerequisite:** CHEM 101 or CHEM 105 and MATH 096 or eligibility for MATH 095 as determined by the SBVC assessment process.

General Chemistry I is an introduction to college level chemistry with an emphasis on the mole concept, thermochemistry, atomic and molecular structure, the relationships of intramolecular and intermolecular forces to chemical and physical properties, the periodic chart, organic chemistry, and solids, liquids and gases.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** CHEM 110/120S**CHEM 151 5 Units****General Chemistry II****Lecture:** 54 contact hours**Lab:** 108 contact hours**Prerequisite:** CHEM 150 and MATH 102 or SBVC assessment higher than MATH 102.

General Chemistry II is the second half of a two-part sequence in chemistry with an emphasis on thermodynamics, chemical equilibrium, chemical kinetics, nuclear and electrochemistry. This course prepares students for future courses and careers in chemistry, physics, biology, health sciences, and the earth sciences.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** CHEM 120S**CHEM 205 5 Units****Quantitative Chemical Analysis****Lecture:** 54 contact hours**Lab:** 108 contact hours**Prerequisite:** CHEM 151

This course explores the principles, calculations, and applications of volumetric, gravimetric, and instrumental analysis as well as provides practical experience in standardizing reagents and determining the composition of various mixtures pertaining to the chemical laboratory setting. It is designed for second year Chemistry and Biology majors and students pursuing professional careers.

Associate Degree Applicable**Transfers to both UC/CSU****CHEM 212 4 Units****Organic Chemistry I****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite/Corequisite:** CHEM 151

The first semester of organic chemistry examines carbon compounds including aliphatic, aromatic, and heterocyclic series, and modern theoretical concepts are studied. Students identify properties, synthesis, and reactions of functional groups. Mechanisms are examined in detail. Laboratory includes preparation, identification and the study of properties of organic compounds.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** CHEM 150/160S**CHEM 213 4 Units****Organic Chemistry II****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** CHEM 212

The second semester of organic chemistry continues the study of carbon compounds including aliphatic, aromatic and heterocyclic series, theoretical concepts, instrumentation, mechanisms, synthesis and functional groups. Laboratory includes preparation and study of properties, and extensive identification of organic compounds.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** CHEM 160S

Child Development (CD)

CD 060 3 Units**Understanding School-Age Children****Lecture:** 54 contact hours**Advisory:** READ 015

This course is designed to prepare students to work with children ages five years through adolescence, by focusing on the development of children in this age group. This course includes the study of developmental theories and the practical implications of those theories. This course incorporates licensing regulations as required by Title 22 licensed facilities.

Associate Degree Applicable

CD 061 3 Units**Activities for School-Age Children****Lecture:** 54 contact hours**Advisory:** READ 015

This course is a survey of programs and activities planning for school-age children including both before-and after-school activities for groups and individuals.

Associate Degree Applicable**CD 075 3 Units****Family Child Care Practices****Lecture:** 54 contact hours**Advisory:** READ 015

This course is designed to meet the specific needs of the family child care provider. The emphasis is on learning licensing regulations, good business practices, age appropriate curriculum, healthy environments, positive guidance, and basic child development. Other topics include creating partnerships with parents, maintaining health and safety and working with children from diverse backgrounds including children with special needs and disabilities.

Associate Degree Applicable**CD 098 1-4 Units****Child Development Work Experience****WRKEX:** 300 contact hours

This course involves supervised training, in the form of on-the-job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. Students work 5-20 hours per week to earn units using the following formula: For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable**CD 100 3 Units****Introduction to Child Development****Lecture:** 54 contact hours**Advisory:** READ 015

This course is an introduction to and overview of the field of child development, designed to familiarize students with the broad aspects of the profession, philosophies, theories and principles of caring for children in a variety of settings.

Associate Degree Applicable**Transfers to CSU only****CD 101 3 Units****Parent-Child Interaction****Lecture:** 54 contact hours**Advisory:** READ 015

This course includes general concepts, goals and strategies of parenting through the life span in varying life circumstances and diverse family types. Establishing and maintaining close emotional relationships through bonding, attachment, and effective communication techniques with children at all developmental stages is emphasized. Effective guidance skills, shaping and modifying children's behavior are explored.

Associate Degree Applicable**Transfers to CSU only****CD 105 3 Units****Child Growth and Development****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This introductory course examines the major physical, psychosocial, and cognitive/language developmental milestones for children, both typical and atypical, from conception through adolescence. There is an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** CDEV 100**CD 105H 3 Units****Child Growth and Development - Honors****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This introductory course examines the major physical, psychosocial, and cognitive/language developmental milestones for children, both typical and atypical, from conception through adolescence. There is an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages. This course is intended for students in the Honors Program but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** CDEV 100**CD 108 3 Units****Early Childhood Development****Lecture:** 54 contact hours**Advisory:** READ 015

This course covers the development of children from two years to eight years old. Specifically, this course explores prominent theories related to early childhood development, typical and atypical development of children from two to eight years, contextual influences, and methods of studying the development of young children.

Associate Degree Applicable**Transfers to both UC/CSU****CD 111 3 Units****Observation and Assessment in Child Development****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite/Corequisite:** CD 105 or CD 105H**Advisory:** READ 015

This course focuses on the appropriate use of a variety of assessment and observation strategies to document child development and behavior. Child observations are conducted and analyzed.

Associate Degree Applicable**Transfers to CSU only****C-ID:** ECE 200

CD 113 3 Units**Principles and Practices of Teaching Young Children****Lecture:** 54 contact hours**Advisory:** READ 015

This course is an examination of underlying theoretical principles of developmentally appropriate practices applied to programs and environments, emphasizing the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative and intellectual development of all young children. This course includes a review of historical roots of early childhood programs and the evolution of the professional practices promoting advocacy, ethics and professional identity.

Associate Degree Applicable**Transfers to CSU only****C-ID:** ECE 120**CD 114 3 Units****Introduction to Curriculum****Lecture:** 54 contact hours**Prerequisite:** CD 105 or CD 105H**Advisory:** READ 015

This course presents an overview of knowledge and skills related to providing appropriate curriculum and environments for young children from birth to age six. Students will examine a teacher's role in supporting development and engagement for all young children. This course provides strategies for developmentally-appropriate practice based on observation and assessment across the curriculum.

Associate Degree Applicable**Transfers to CSU only****C-ID:** ECE 130**CD 115 3 Units****Health, Safety and Nutrition****Lecture:** 54 contact hours**Advisory:** READ 015

This course is an introduction to the laws, regulations, standards, policies, procedures and early childhood curriculum related to child health, safety and nutrition. The key components that ensure physical health, mental health and safety for both children and staff will be identified along with the importance of collaboration with families and health professionals. There is a focus on integrating concepts into everyday planning and program development for all children.

Associate Degree Applicable**Transfers to CSU only****C-ID:** ECE 220**CD 126 3 Units****Child, Family, and the Community****Lecture:** 54 contact hours**Advisory:** READ 015

This course examines the developing child in a societal context which focuses on the interrelationships of family, school, and community and emphasizes historical and socio-cultural factors. The processes of socialization and identity development will be highlighted.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** CDEV 110**CD 127 3 Units****Guidance of Children****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This course presents a developmental approach to the guidance and discipline of children. Effective guidance theories and methods are presented for teachers and professionals working with children, including children with special needs. Effective communication methods for early childhood educators working with children and their parents will be emphasized.

Associate Degree Applicable**Transfers to CSU only****CD 130 3 Units****Creative Music and Movement for Children****Lecture:** 54 contact hours**Advisory:** READ 015

This course explores the importance of music and movement in the development of children ages two through eight. Because children's physical and motor maturation influences all other aspects of development this course focuses on planning for motor skill progression through creative and teacher-guided movement. There is equal emphasis on developmentally appropriate musical activities and on rhythmic experiences with musical instruments and creative props.

Associate Degree Applicable**Transfers to CSU only****CD 133 3 Units****Creative Science and Math Activities for Children****Lecture:** 54 contact hours**Advisory:** READ 015

This course focuses on planning and implementing creative and developmentally appropriate science and math activities for young children. Content includes: life science, physical science, and earth science; creation of scientific environment in the classroom; scientific concepts and the science process skills (observing, comparing, measuring, classifying and predicting); the basic math concepts (classifying, ordering, seriation, patterning, number sense, simple reasoning and counting); and how to create a math environment.

Associate Degree Applicable**Transfers to CSU only****CD 134 3 Units****Language, Listening and Literature for Children****Lecture:** 54 contact hours**Advisory:** READ 015

This course emphasizes the process of language acquisition in children and techniques and experiences which promote language development and listening skills. It includes the examination of children's literature; teaching strategies for reading picture books to children; presenting poetry; flannel board activities; puppetry and storytelling in the classroom for children ages two through eight.

Associate Degree Applicable**Transfers to CSU only**

CD 136 3 Units**Creative Art Experiences for Children****Lecture:** 54 contact hours**Advisory:** READ 015

This course focuses on establishing an environment for young children that cultivates and nourishes creativity and their aesthetic sense. It includes the principles of creative development; instructional strategies; materials, tools and equipment in an art program; and developmentally appropriate activities and experiences which underscore the emotional, social, physical, and cognitive needs of children from two through eight years of age.

Associate Degree Applicable**Transfers to CSU only****CD 137 3 Units****Play and Materials for Children****Lecture:** 54 contact hours**Advisory:** READ 015

This course introduces the theories and pedagogies of play and inquiry based learning and development. A focus of the course is on how play, inquiry, pedagogy, assessment and planning are purposefully and holistically integrated across a range of learning contexts. Child centered approaches are examined with a focus on using environments and resources to plan and support learning and development.

Associate Degree Applicable**Transfers to CSU only****CD 138 3 Units****Teaching in a Diverse Society****Lecture:** 54 contact hours**Advisory:** READ 015

This course is an examination of the development of social identities in diverse societies including theoretical and practical implications affecting children, families, programs, teaching, education and schooling. Culturally relevant and linguistically appropriate anti-bias approaches supporting all children, from birth through age 8, in becoming competent members of a diverse society will be examined. This course involves self-examination and reflection of related issues in order to better inform teaching practices and program development.

Associate Degree Applicable**Transfers to CSU only****C-ID:** ECE 230**CD 185 3 Units****Infant/Toddler Growth and Development****Lecture:** 54 contact hours**Advisory:** READ 015

This course explores the physical, social-emotional, cognitive, and language development of children from birth to age three. It fulfills the California licensing requirements for infant center personnel and includes infant/toddler interactions and curriculum.

Associate Degree Applicable**Transfers to CSU only****CD 186 3 Units****Infant and Toddler Curriculum****Lecture:** 54 contact hours**Advisory:** READ 015

This course is a survey of program and curriculum planning for infants and toddlers child care and education settings, including early intervention and inclusive programs, emphasizing curriculum and principles and practices of quality care and developmentally appropriate practices specific to infants, toddlers and two-year-old children, birth to three years.

Associate Degree Applicable**Transfers to CSU only****CD 205 4 Units****Child Development Practicum / Field Experience****Lecture:** 36 contact hours**Lab:** 108 contact hours**Prerequisite:** CD 105 or CD 105H and CD 113 and CD 114 and CD 126**Advisory:** READ 015

In this supervised field work course, students practice and demonstrate developmentally appropriate early childhood planning and teaching competencies under the supervision of ECE/CD faculty and mentor teachers. Students utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning, and assessment, and knowledge of curriculum content areas are emphasized. Student teachers design, implement and evaluate experiences that promote positive development for all young children.

Associate Degree Applicable**Transfers to CSU only****C-ID:** ECE 210**CD 210 4 Units****Infant and Toddler Practicum****Lecture:** 36 contact hours**Lab:** 108 contact hours**Prerequisite:** CD 185 and CD 105 or CD 105H**Advisory:** READ 015

This supervised field experience course guides students in applying learned theory into classroom practice and promotes the development of teaching competencies with infants and toddlers at the SBVC Child Development Infant Center or with an approved mentor teacher. The emphasis is on developing appropriate individual programs for infants and toddlers, as well as professional ethics and cooperative relationships with staff, parents and children.

Associate Degree Applicable**Transfers to CSU only****CD 215 4 Units****Early Intervention and Inclusion Internship****Lecture:** 36 contact hours**Lab:** 108 contact hours**Prerequisite:** CD 105 or CD 105H**Corequisite:** CD 245|**Advisory:** READ 015

This course provides a supervised internship as an assistant in an early intervention or inclusion setting with children from birth through eight years. It explores the unique development and guidance of infants, toddlers and young children with disabilities and other special needs. Adaptation of curriculum, natural environments, identification and assessment are discussed.

Associate Degree Applicable**Transfers to CSU only**

CD 244 3 Units**Children with Special Needs****Lecture:** 54 contact hours**Prerequisite:** CD 105 or CD 105H**Advisory:** READ 015

This course introduces the physical, social, emotional and intellectual characteristics of children with disabilities and other special needs. It covers teaching strategies that are sensitive to children with special needs and their families, as well as the legal requirements of educating children with disabilities or other special needs.

Associate Degree Applicable**Transfers to CSU only****CD 245 3 Units****Early Intervention and Inclusion****Lecture:** 54 contact hours**Prerequisite:** CD 105 or CD 105H**Corequisite:** CD 215**Advisory:** READ 015

This course focuses on theories, research and practical teaching strategies in early intervention and early childhood special education. Students learn intervention techniques and strategies to work with children with disabilities and other special needs.

Associate Degree Applicable**Transfers to CSU only****CD 270 3 Units****Adult Supervision and Mentoring in Early Care and Education****Lecture:** 54 contact hours**Prerequisite:** CD 105 or CD 105H**Advisory:** READ 015

This course presents methods and principles for supervising student teachers, volunteers, staff, and other adults in early care and education settings. The roles and development of early childhood professionals as mentors and leaders is emphasized.

Associate Degree Applicable**Transfers to CSU only****CD 271 3 Units****Administration I: Programs in Early Childhood Education****Lecture:** 54 contact hours**Prerequisite:** CD 105 or CD 105H and CD 126**Advisory:** READ 015

This course is an introduction to the administration of early childhood programs. It covers program types, budget, management, regulations, laws, development and implementation of policies and procedures. This course also examines the administrative tools, philosophies, and techniques needed to organize, open, and operate an early care and education program.

Associate Degree Applicable**Transfers to CSU only****CD 272 3 Units****Administration II: Personnel and Leadership in Early Childhood Education****Lecture:** 54 contact hours**Prerequisite:** CD 105 or CD 105H and CD 126**Advisory:** CD 271 and READ 015

This course provides effective strategies for personnel management and leadership in early care and education settings. It includes legal and ethical responsibilities, supervision techniques, professional development, and reflective practices for a diverse and inclusive early care and education program.

Associate Degree Applicable**Transfers to CSU only**

Communication Studies (COMMST)

COMMST 100 3 Units**Elements of Public Speaking****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course focuses on training in the application of the concepts, principles, and skills of effective public speaking. Concepts such as structure, adapting messages to culturally diverse audiences, research principles, and critical evaluation of evidence and arguments are explored. Delivery, listening, and feedback skills are also discussed and practiced in a variety of presentations.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** COMM 110**COMMST 100H 3 Units****Elements of Public Speaking - Honors****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course focuses on training in the application of the concepts, principles, and skills of effective public speaking. Concepts such as structure, adapting messages to culturally diverse audiences, research principles, and critical evaluation of evidence and arguments are explored. Delivery, listening, and feedback skills are also discussed and practiced in a variety of presentations. This course is intended for students in the Honors Program, but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** COMM 110**COMMST 111 3 Units****Interpersonal Communication****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

Interpersonal communication examines the dynamics of the communication process within the context of interpersonal relationships (those with friends, families, romantic partners, and co-workers). Influences of self-concept, perception, listening, verbal and non-verbal communication, and emotional expression are explored. Principles of relationship development, communication climate, self-disclosure, and conflict management are also discussed. Rhetorical principles are also practiced, and faculty supervised/evaluated in a variety of ways.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** COMM 130**COMMST 125 3 Units****Critical Thinking Through Argumentation and Debate****Lecture:** 54 contact hours**Advisory:** COMMST 100 or COMMST 100H and READ 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is designed to provide an oral approach to critical thinking skills which includes individual and group debates. It also provides instruction in language, argument structure, types of reasoning, evaluation of evidence, fallacies in reasoning, and case development strategies.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** COMM 120

COMMST 135 3 Units**Mass Media and Society****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course explores the history, effects, and role of the mass media in the U.S. The major forms of mass communication are studied (television, radio, film, newspapers and magazines). There is also a focus on critical analysis of media messages, effects of media on individual and society, and theories of communication. Students move beyond being consumers of media to analysts of media.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** JOUR 100**COMMST 140 3 Units****Small Group Communication****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for ENGL 101 or 101H as determined by the SBVC assessment process.

This course explores discussion principles, communication skills, conflict management, participation practices, and leadership within small groups in a variety of contexts. Group formation, verbal and non-verbal communication, listening, and decision-making procedures are also examined. Emphasis is on group participation, group discussion, and group projects/presentations.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** COMM 140**COMMST 174 3 Units****Intercultural Communication****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for ENGL 101 or ENGL 101H as determined through the SBVC assessment process.

This course focuses on the communication behaviors and values common to all cultures and ethnic groups and on the differences that insulate and divide people. Students will examine influences on the communication process, including aspects such as stereotyping, perception, prejudice, values and expectations. Students will learn to overcome the communication problems that can result when members of other cultures communicate by evaluating their own intercultural communication patterns and learning skills to increase their effectiveness. Students will also acquire a greater appreciation for others.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** COMM 150**COMMST 176 3 Units****Gender Differences in Communication****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for ENGL 101 or ENGL 101H as determined through the SBVC assessment process.

This course explores the gender differences evident in communication. Students will examine the theories concerning gender differences, issues of gender in a variety of contexts (families, relationships, the workplace, the media, school), and the differences in the communication patterns resulting from gender.

Associate Degree Applicable**Transfers to both UC/CSU**

Computer Information Technology (CIT)

CIT 010 3 Units**Beginning Keyboarding and Word Processing****Lecture:** 36 contact hours**Lab:** 54 contact hours

This course covers the fundamentals of keyboarding including operation of a standard keyboard by touch. It includes instruction and practice in formatting a variety of personal and business documents, such as letters, reports, and tables. The use of speed and accuracy drills designed to develop a keyboarding speed of 30 words per minute for five minutes will be utilized. This is a combined Part I and Part II course students can complete in one semester.

Associate Degree Applicable**CIT 013 3 Units****Intermediate Keyboarding****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** CIT 010

This course provides instruction in touch control of the computer keyboard, and is designed to develop a keyboarding speed of 45 net words per minute for five minutes. In addition, students receive instruction in the preparation of basic business documents using word processing software.

Associate Degree Applicable**CIT 021 4 Units****Word Processing: Comprehensive Microsoft Word****Lecture:** 72 contact hours**Advisory:** CIT 010 or CIT 100

This course focuses on the production of professional quality documents using Microsoft Word comprehensive features: creating office documents, set up tabs and margins, set text in columns or tables, apply graphic elements, perform mail merge, sorting, numbering, bullets, symbols, prepare multiple page documents, using headers and footers, quick parts, themes and styles, references, forms, table of content, indexing, macros, and preparing students for Microsoft Certified Application Specialist exam.

Associate Degree Applicable**CIT 026 3 Units****Computer Graphics****Lecture:** 54 contact hours**Advisory:** CIT 101

This course is an introduction to graphic design using graphic software to create professional-looking documents.

Associate Degree Applicable**CIT 031 3 Units****Business English****Lecture:** 54 contact hours

This course is a review of basic grammar, punctuation, capitalization, vocabulary, and spelling. Emphasis is placed on grammar and vocabulary building for effective business communications.

Associate Degree Applicable**CIT 045 3 Units****Medical Insurance Billing and Coding****Lecture:** 54 contact hours**Prerequisite:** CIT 010 and CIT 144

This course covers ICD/CPT coding, insurance terminology, computerized billing, claims management, and the Health Insurance Portability and Accountability Act (HIPAA).

Associate Degree Applicable

CIT 048 3 Units**Medical Office Procedures****Lecture:** 54 contact hours**Prerequisite:** CIT 010 and CIT 144

The course covers law and ethics, data entry, appointment scheduling, and billing procedures using computer software to provide real life medical office scenarios.

Associate Degree Applicable**CIT 050 3 Units****Medical Records and Health Information****Lecture:** 54 contact hours**Prerequisite:** CIT 010 and CIT 144

This course prepares students for entry-level positions in medical records. Topics covered include the unique aspects of file management including transfer, release, storage, retrieval, and destruction of records and files. Information includes the latest computer technologies, electronic medical records and electronic health records to access, manage and share protected health information. An introduction to electronic billing, coding, medical ethics, confidentiality, and the laws that govern privacy are also a part of this course.

Associate Degree Applicable**CIT 051 3 Units****Introduction to Electronic Health Records****Lecture:** 54 contact hours**Prerequisite:** CIT 048

This course introduces the health information technology (HIT) utilized in electronic health records (EHR) systems and fiscal management. Students will obtain hands-on experience through integrated practice management software to obtain a comprehensive picture of health information technology. There is an emphasis on quality assurance, legal, and ethical practices of documenting the clinical and administrative tasks that take place for a total patient encounter.

Associate Degree Applicable**CIT 088 3 Units****Introduction to Android Security****Lecture:** 36 contact hours**Lab:** 54 contact hours

This is an introductory course in Android security. The course covers why it is critical to build security into Android apps in all phases of the system design lifecycle. The course will also cover improved programming processes to promote safety, as well as how to provide countermeasures for the numerous threats to which Android application and its users are exposed using software and hardware tools available in the industry.

Associate Degree Applicable**CIT 089 3 Units****Introduction to iOS Application Security****Lecture:** 36 contact hours**Lab:** 54 contact hours

This course focuses on the iOS (Internetwork Operating System) platform and application security. This course is for beginners interested in understanding the iOS Security. How to analyze applications on this platform using a variety of cutting-edge tools and techniques will be covered.

Associate Degree Applicable**CIT 090 3 Units****Introduction to Web Security****Lecture:** 36 contact hours**Lab:** 54 contact hours

This introductory course in web security targets students and other computer professionals who have some networking and administrative skills in Windows-based networks. Students will become familiar with other operating systems, such as OS X, Unix, or Linux. This course will help participants who want to further a career in Information Technology by acquiring an elementary knowledge of security topics. The course further helps students as they prepare for the CompTIA Security+ Certification examination.

Associate Degree Applicable**CIT 091 3 Units****Computer Network Fundamentals (Cisco Networking Academy)****Lecture:** 36 contact hours**Lab:** 54 contact hours

This course is the first course in the Cisco Academy Program sequence and introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP (Internet Protocol) addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for further study of computer networks. It uses the OSI (Open Systems Interconnection) and TCP (Transmission Control Protocol) layered models to examine the nature and roles of protocols and services at the application, network, data link, and physical layers.

Associate Degree Applicable**CIT 092 3 Units****Basic Switching and Routing (Cisco Networking Academy)****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** CIT 091

This course is the second course in four-course sequence-preparing students to take the Cisco Certified Network Associate certification examination and prepares students to take the Cisco Certified Entry Networking Technician certification exam. This course teaches comprehensive networking concepts and skills from network applications to the protocols and services provided to those applications by the lower layers of the network.

Associate Degree Applicable**CIT 093 3 Units****Advanced Routing and Switching Cisco (Cisco Networking Academy)****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** CIT 092

This course provides students with classroom and laboratory experience in configuring, managing, and troubleshooting routers and switches in large and complex IPv4 and IPv6 networks. In depth experience configuring, managing, and troubleshooting complex protocols such as OSPF, EIGRP, STP, and VTP.

Associate Degree Applicable

CIT 094 3 Units**Wide Area Network Technologies and Network Services (Cisco Networking Academy)****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** CIT 093

This is the fourth and final course in the Cisco Certified Network Associate (CCNA) sequence focuses on Wide Area Network (WAN) technologies. The network services required by converged applications in a complex network including the selection criteria for network devices and WAN technologies to meet user requirements. Includes datalink troubleshooting, IPSec and VPN operations as well as preparation strategies for the CCNA examination.

Associate Degree Applicable**CIT 098 1-4 Units****Computer Information Technology Work Experience****WRKEX:** 300 contact hours

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable**CIT 099 3 Units****Cisco Certified Network Associate Security****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** CIT 091 and CIT 092

This course prepares students for entry-level security specialist careers by developing in-depth understanding of network security principles and the tools and device configurations necessary to create and maintain a secure network. The course includes hands-on activities with networking equipment.

Associate Degree Applicable**CIT 100 3 Units****Introduction to Personal Computers****Lecture:** 54 contact hours

A survey course for the use of software tools such as word processing, spreadsheets, graphics, presentation and database using Microsoft Office.

Associate Degree Applicable**Transfers to CSU only****CIT 101 3 Units****Introduction to Computer Literacy****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** CIT 010 or CIT 031

This course is an introduction to fundamental Information Technology / Information Systems concepts and Information Security. The course includes practical exercises with spreadsheet, database, and Internet applications.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** BUS 140/ITIS120**CIT 102 3 Units****Advanced Computer Literacy****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** CIT 101

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course covers the complex fundamentals of hardware computer concepts and software applications. It provides the skills needed to create advanced word processing documents, spreadsheets, databases, and presentations.

Associate Degree Applicable**Transfers to CSU only****CIT 110 4 Units****Information and Communications Technology Essentials****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course provides an introduction to the computer hardware and software skills needed to help meet the growing demand for entry-level ICT professionals. The fundamentals of computer hardware and software as well as advanced concepts such as security, networking, and the responsibilities of an ICT professional will be introduced. Preparation for CompTIA's A+ certification exam.

Associate Degree Applicable**Transfers to CSU only****C-ID:** ITIS 110**CIT 114 3 Units****Spreadsheets: Excel****Lecture:** 54 contact hours**Advisory:** CIT 100 or CIT 101

Production of workbooks using EXCEL, which integrates spreadsheet analysis, information management, and graphics. Includes the design and the use of worksheets; how to enter labels, numbers, formulas, and create graphs; how to format worksheets professionally; how to use Excel functions in different applications and understand the concept of data management in Excel; how to use the concept of what-if-analysis; how to consolidate data in a 3-D workbook and establish File Linking; and how to integrate Excel with the Web.

Associate Degree Applicable**Transfers to CSU only****CIT 116 3 Units****Database Management: Access****Lecture:** 54 contact hours**Advisory:** CIT 100 or CIT 101

This is a comprehensive course in the development and maintenance of a database. It provides a working knowledge of designing a database that includes: setting field properties, storing, retrieving, printing, and indexing records, creating informational and technical queries, developing customized forms and reports, establishing different types of relationships, integrating Access with the Web, and creating a database switchboard. The course emphasis is on developing a practical ability to use a database in a Windows environment with full graphical user interface functionality.

Associate Degree Applicable**Transfers to CSU only**

CIT 118 3 Units**Microsoft PowerPoint****Lecture:** 54 contact hours**Advisory:** CIT 105

This course provides an introduction to a presentation graphics program for those who plan to make effective and compelling presentations. Instructions include developing and customizing presentations by using charts, clip art, pictures, presentation templates, WordArt, and information and graphics from Word, Excel, and Access.

Associate Degree Applicable**Transfers to CSU only****CIT 120 2 Units****Internet****Lecture:** 18 contact hours**Lab:** 54 contact hours**Advisory:** CIT 105

This course provides the basics of the Internet using current technology browser software. The course includes the effective use of web search portals, online collaboration software, and implications of security, privacy and ethical usage.

Associate Degree Applicable**Transfers to CSU only****CIT 127 3 Units****Introduction to Computer Forensics****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** CIT 160

This course will introduce basic tools, techniques, and procedures for collecting, capturing, and preserving digital evidence that can be admitted and used in computer forensics processes. Topics include securing and analyzing a computer system and network system, evaluating suspect data and files, and composing reports based on investigative findings.

Associate Degree Applicable**Transfers to CSU only****CIT 128 3 Units****Introduction to Linux OS****Lecture:** 36 contact hours**Lab:** 54 contact hours

This is an introductory course to the LINUX Operating System and basic Linux Operating System environment and commands. This course will cover file system navigation, Graphic User Interfaces (GUI) such as GNOME and KDE, file permissions, the Linux text editors, command shells, and basic network commands. This course is mapped to LINUX LPI Level 1 guidelines.

Associate Degree Applicable**Transfers to CSU only****CIT 140 3 Units****Introduction to Systems Analysis and Design****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ENGL 015 and BUSAD 100 and CIT 101 and MATH 095 and CS 110 or CS 120

The course presents a systematic methodology for analyzing a business problem or opportunity, determining what role, if any, computer-based technologies can play in addressing the business need, articulating business requirements for the technology solution, specifying alternative approaches to acquiring the technology capabilities needed to address the business requirements, and specifying the requirements for the information systems solution in particular, in-house development, development from third-party providers, or purchased commercial-off-the-shelf packages.

Associate Degree Applicable**Transfers to both UC/CSU****CIT 144 3 Units****Medical Terminology****Lecture:** 54 contact hours**Advisory:** READ 015

The course includes the origin, usage, spelling, pronunciation, and meaning of terminology used to describe the structures of the human body, as well as therapeutic and diagnostic procedures. It is a course for students who are interested in pursuing health occupations such as medical office occupations, nursing, radiological technology, and respiratory care.

Associate Degree Applicable**Transfers to CSU only****CIT 155 3 Units****Systems and Network Administration****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** CIT 110

This course will provide a student with the knowledge and skills required to build, maintain, troubleshoot and support server hardware and software technologies. The student will be able to identify environmental issues; understand and comply with disaster recovery and physical / software security procedures; become familiar with industry terminology and concepts; understand server roles / specializations and interaction within the overall computing environment.

Associate Degree Applicable**Transfers to CSU only****C-ID:** ITIS 155**CIT 160 3 Units****Introduction to Information Systems Security****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** CIT 232

An introduction to the fundamental principles and topics of Information Technology Security and Risk Management at the organizational level. It addresses hardware, software, processes, communications, applications, and policies and procedures with respect to organizational Cybersecurity and Risk Management.

Associate Degree Applicable**Transfers to CSU only**

CIT 215 3 Units**Database Management Systems****Lecture:** 54 contact hours**Prerequisite:** CIT 116

This course focuses on the concepts of relational databases including database management systems, database design fundamentals and Structured Query Language (SQL).

Associate Degree Applicable**Transfers to CSU only****CIT 222 1-3 Units****Independent Study in Computer Information Technology****DIR:** 54 contact hours

Assigned projects involving research and analysis of selected topics or directed study for students who are interested in furthering their knowledge of information technology on an independent study basis. For each unit earned, students are required to devote three hours per week throughout the semester. Enrollment limited to those who meet independent study criteria. Prior to registration, a contract must be prepared. See instructor for details.

Associate Degree Applicable**Transfers to CSU only****CIT 232 3 Units****Computer Network Fundamentals****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** CIT 101

This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP (Internet Protocol) addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for further study of computer networks. It uses the OSI (Open Systems Interconnection) and TCP (Transmission Control Protocol) layered models to examine the nature and roles of protocols and services at the application, network, data link, and physical layers. It provides preparation for the CompTIA Network+ certification exam.

Associate Degree Applicable**Transfers to CSU only****C-ID:** ITIS 150**CIT 601 Noncredit****Introduction to Basic Computer Skills****Lecture:** 8 contact hours**Lab:** 16 contact hours

This course provides basic computer skills. Topics include basic knowledge of computer hardware, computer software, computer terminology, working with Windows, using the Internet, and creating basic business documents using Microsoft Word. This course is recommended for individuals who have little or no computer skills as well as those who wish to seek an entry-level position as an office clerk.

CIT 602 Noncredit**Microsoft Word Fundamentals****Lecture:** 8 contact hours**Lab:** 16 contact hours

This course provides a basic working knowledge of Microsoft Word for office workers. Topics include basic document, paragraph, and document formatting, working with clip art, lists, columns and tables. This course is recommended for individuals who wish to seek an entry-level position as an office clerk.

CIT 603 Noncredit**Microsoft Excel Fundamentals****Lecture:** 8 contact hours**Lab:** 16 contact hours

This course provides a basic working knowledge of Microsoft Excel for office workers. Topics include creating and editing worksheets, formatting worksheets, printing worksheets, using simple tables and graphs, basic formulas and fundamental Excel functions. This course is recommended for individuals who wish to seek an entry-level position as an office clerk.

CIT 604 Noncredit**Microsoft Powerpoint Fundamentals****Lecture:** 8 contact hours**Lab:** 16 contact hours

This course provides a basic working knowledge of Microsoft PowerPoint for office workers. Topics include creating presentations, managing PowerPoint slides, slide text and graphics, and displaying a presentation. This course is recommended for individuals who wish to seek an entry-level position as an office clerk.

CIT 605 Noncredit**Microsoft Outlook Fundamentals****Lecture:** 8 contact hours**Lab:** 16 contact hours

This course provides a basic working knowledge of Microsoft Outlook for office workers. Topics include Outlook contacts, Outlook email, and Outlook calendar. This course is recommended for individuals who wish to seek an entry-level position as an office clerk.

CIT 606 Noncredit**Computer Proficiency Lab****Lab:** 18 contact hours

This noncredit course provides students who need extra help or extra lab time to develop proficiency with computer technology with an on-campus resource.

CIT 621 Noncredit**CompTIA A+ Certificate Preparation: Hardware****Lecture:** 72 contact hours

This noncredit course is designed for individuals who have basic computer skills and who are interested in obtaining a job as an entry-level IT technician and require certification. It is an accelerated course that prepares students for the Hardware portion of the CompTIA A+ exam.

CIT 622 Noncredit**CompTIA A+ Certificate Preparation: Networking****Lecture:** 36 contact hours

This noncredit course is designed for individuals who have basic computer skills and who are interested in obtaining a job as an entry-level IT technician and require certification. It is an accelerated course that allows students to prepare for the Networking portion of the CompTIA A+ Hardware exam.

CIT 623 Noncredit**CompTIA A+ Certification Preparation: Mobile Devices****Lecture:** 36 contact hours

This noncredit course is designed for individuals who have basic computer skills and who are interested in obtaining a job as an entry-level IT technician and require certification. It is an accelerated course that prepares for the Mobile Devices portion of the CompTIA A+ exam.

CIT 624 Noncredit**CompTIA A+ Certification Preparation: Troubleshooting****Lecture:** 36 contact hours

This noncredit course is designed for individuals who have basic computer skills and who are interested in obtaining a job as an entry-level IT technician and require certification. It is an accelerated course that prepares for the Troubleshooting portion of the CompTIA A+ exam.

CIT 625 Noncredit**CompTIA A+ Certification Preparation: Windows Operating Systems****Lecture:** 36 contact hours

This noncredit course is designed for individuals who have basic computer skills and who are interested in obtaining a job as an entry-level IT technician and require certification. It is an accelerated course that prepares students for the Windows Operating System portion of the CompTIA A+ exam.

CIT 626 Noncredit**CompTIA A+ Certification Preparation: Other Operating Systems****Lecture:** 36 contact hours

This noncredit course is designed for individuals who have basic computer skills and who are interested in obtaining a job as an entry-level IT technician and require certification. It is an accelerated course that prepares students for the Other Operating Systems portion of the CompTIA A+ exam.

CIT 627 Noncredit**CompTIA A+ Certification Preparation: Security****Lecture:** 36 contact hours

This noncredit course is designed for individuals who have basic computer skills and who are interested in obtaining a job as an entry-level IT technician and require certification. It is an accelerated course that prepares students for the Security portion of the CompTIA A+ exam.

CIT 628 Noncredit**CompTIA A+ Certification Preparation: Software Troubleshooting****Lecture:** 36 contact hours

This noncredit course is designed for individuals who have basic computer skills and who are interested in obtaining a job as an entry-level IT technician and require certification. It is an accelerated course that prepares students for the Security portion of the CompTIA A+ exam.

CIT 629 Noncredit**CompTIA A+ Certification Preparation: Operational Procedures****Lecture:** 36 contact hours

This noncredit course is designed for individuals who have basic computer skills and who are interested in obtaining a job as an entry-level IT technician and require certification. It is an accelerated course that prepares students for the Operational Procedures of the CompTIA A+ exam.

Computer Science (CS)

CS 074 3 Units**iOS App Development****Lecture:** 18 contact hours**Lab:** 108 contact hours

This course will cover the fundamentals of iPhone application development using the Objective-C, Swift, and the iPhone SDK (Software Development Kit). The theory and use of using and managing Xcode, 3D Game Development, Storyboard Builder, Audio /Animation /Data /Location, User Interface (UI) development, game and app design will be covered. Students will gain valuable experience using front end and back end development tools to complete production ready iPhone applications.

Associate Degree Applicable**CS 075 3 Units****Introduction to Web Development****Lecture:** 18 contact hours**Lab:** 108 contact hours

This course focuses on web development and addresses the essentials for skilled web developers who can create digital media, web, and mobile applications for modern desktop and portable devices. Students in this program are offered an in-depth, project-driven curriculum that provides a comprehensive study of HTML, CSS, JavaScript, Web Animation, Multimedia Creation. Students will learn to develop visually aesthetic, user friendly, and interactive web-based applications. Students will also gain valuable experience using front end and backend development tools like Adobe Dreamweaver, Adobe Animate, and Visual Studio. Students will also be exposed to the programming languages that cross over from web development to mobile phone development. The synergy between the many web and mobile technologies will help each student build a foundation suitable for professional content.

Associate Degree Applicable**CS 076 3 Units****Android App Development****Lecture:** 18 contact hours**Lab:** 108 contact hours

This course will cover Android Developer Fundamentals and basic Android programming concepts and build a variety of apps, starting with Hello World and working their way up to apps for business solutions and game development. Creating assets for applications and utilities is also covered.

Associate Degree Applicable**CS 077 4 Units****Introduction to C-Sharp****Lecture:** 54 contact hours**Lab:** 54 contact hours**Advisory:** MATH 095 or MATH 096

This course is an introduction to C# (C Sharp) app development. C# is a sophisticated and type-safe object-oriented language that empowers developers to build a variety of secure and robust applications that run on the .NET Framework. Topics will include fundamental object-oriented programming concepts like loops, arrays, logic, debugging, database, using the C# languages in a game development environment, files, and game development.

Associate Degree Applicable**CS 098 1-4 Units****Computer Science Work Experience****WRKEX:** 300 contact hours

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable

CS 110 3 Units**Fundamentals of Computer Science****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process and MATH 102.**Corequisite:** MATH 102

This course is an overview of the computer science discipline investigating the design and use of the computer devices, the art and science of problem solving and programming, the representation of data, human-computer interactions and ethical considerations, and information security principles. Also included is hands-on experience with command line and GUI operating systems; application of HTML, CSS, and scripts to web pages; and computer programming with an object-oriented language such as C++, Java, or C#.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** COMP 122**CS 120 4 Units****Introduction to Visual Basic.NET****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** MATH 952

This is an introduction to the Visual Basic.NET programming language. Topics include problem solving, graphical user interface, program design, software tools, structured logic, object-oriented programming, graphics and animation, procedures, arrays, files, and programming projects.

Associate Degree Applicable**Transfers to both UC/CSU****CS 130 3 Units****Discrete Structures****Lecture:** 54 contact hours**Prerequisite:** CS 110 and MATH 102

This course surveys discrete structures used in computer science with an emphasis on applications. Topics covered include: functions, relations, and sets; basic logic; proof techniques; basics of counting; graphs and trees; and discrete probability.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** COMP 152**CS 170 4 Units****Assembly Language****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** CS 110

This course focuses on the organization and behavior of computer systems at the assembly-language level. The mapping of high-level language statements and constructs to machine-level instructions and internal representation of common data types and simple structures is studied including the methods of numerical computation with assembly language constructs emphasizing common pitfalls associated with data representation and procedural errors encountered during the creation of machine language routines. This course includes hands on experience creating assembly language programs.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** COMP 142**CS 190 4 Units****Programming in C++****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** CS 110 and ENGL 101 or ENGL 101H

This course is an examination of intermediate object-oriented programming concepts and their application using the C++ language. Topics include event-driven programming; human-computer interactions; analysis of iterative and recursive solution complexity for searching/sorting algorithms; intermediate data structures; and programming constructs; object-oriented design and modeling; integration of database access into programming solutions; impact of computer science on selected societal issues; and software assurance.

Associate Degree Applicable**Transfers to both UC/CSU****CS 215 4 Units****Programming with Java****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** CS 110

An introduction to Java. Topics include object-oriented design, multiple platform environment, program logic structures, graphical user interface, Java Applet, and recursion.

Associate Degree Applicable**Transfers to both UC/CSU****CS 220 4 Units****Advanced Visual Basic.Net Programming****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** CS 120

This course covers advanced programming using Visual Basic .NET with an emphasis on software development and maintenance. Topics include object-oriented design, multiple class modules, interface and linking, windows and Internet controls, and database access.

Associate Degree Applicable**Transfers to both UC/CSU****CS 222 1-3 Units****Special Problems in Computer Science I****DIR:** 54 contact hours**Prerequisite:** CS 110

Assigned problems involving computer laboratory work for selected students who are interested in furthering their knowledge of computer science on an independent study basis. Students are required to devote three contact hours per week to their project throughout the semester. Prior to registration, a contract must be prepared. See Instructor for details.

Associate Degree Applicable**Transfers to CSU only**

CS 265 3 Units**Data Structures and Algorithms with C++****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** CS 130 and CS 190 and MATH 250**Corequisite:** CS 130 and MATH 250

This course is an introduction to algorithmic analysis and data structures. Topics include formal computing algorithms, algorithmic strategies, and basic algorithm analysis; canonical data structures; intermediate recursion; human-computer interaction; professionalism and ethical behavior; software information assurance, software engineering, and software reuse.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** COMP 132

Corrections (CORREC)

CORREC 101 3 Units**Introduction to Corrections****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course provides a history of and critical analysis of punishment, the various types of punishment, alternatives to punishment and the impact of punishment on the criminal justice system and corrections. Students in this course will conduct a critical examination of the types of correctional institutions and the clients housed in each institution. Contemporary correctional issues are discussed.

Associate Degree Applicable**Transfers to CSU only****C-ID:** AJ 200**CORREC 102 3 Units****Correctional Interviewing and Counseling****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course of study is an overview of the techniques in counseling and interviewing available to practitioners in corrections. It includes the use of appropriate techniques and theories in confidence building, which the correctional employee may use in client interviews and counseling.

Associate Degree Applicable**Transfers to CSU only****CORREC 103 3 Units****Gangs and Corrections****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is designed to provide students with a base of knowledge as it relates to the impact of gangs in both correctional and community settings. It includes a review of the types of gangs, history, and criminal activities associated with gangs.

Associate Degree Applicable**Transfers to CSU only****CORREC 104 3 Units****Control and Supervision in Corrections****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course will emphasize local, state, and federal institutions in the role played by the offender and the correctional worker. Topics will include inmate subculture, violence and effects of crowding on inmates and staff, coping techniques for correctional officers in a hostile prison environment.

Associate Degree Applicable**Transfers to CSU only****CORREC 105 3 Units****Legal Aspects of Corrections****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is the study of the historical framework, concepts, and precedents that guide correctional practice. Course material will present a broader perspective of the correctional environment such as the civil rights of prisoners, responsibilities and liabilities of correctional officials, the courts, and police.

Associate Degree Applicable**Transfers to CSU only****CORREC 106 3 Units****Probation and Parole****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is a study of the historical and contemporary view of the application of probation and parole procedures in the criminal justice system. Community corrections as applied to probation and parole, probation as an entity of the courts and parole as an entity of corrections compose the main focus of this course. This course material will broaden the student's concept of community corrections and the rights and liabilities of a person on probation or parole.

Associate Degree Applicable**Transfers to CSU only**

Criminal Justice (CRMJUS)

CRMJUS 059 16.5 Units**Reserve Level I Officer****Lecture:** 225 contact hours**Lab:** 215 contact hours**Prerequisite:** CRMJUS 060 or POST Modular Format Level II Officer Course at a Regional Accredited Academy.**Advisory:** READ 015 and ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process. |

This course is the third module in the Regular Basic Course Modular Format Training sequence. The intensive and disciplined instruction is designed to meet the minimum requirements of a full-time peace officer or level I reserve peace officer in the State of California. The course covers but is not limited to: professional orientation, victimology/crisis intervention, juvenile law, patrol techniques, domestic violence, traffic enforcement, lifetime fitness, defensive tactics and firearms. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE SUCCESSFULLY COMPLETED PROGRAM PREREQUISITES AND STATE SCREENING REQUIREMENTS.

Associate Degree Applicable

CRMJUS 060 12.5 Units**Reserve Level II Officer****Lecture:** 203 contact hours**Lab:** 73 contact hours**Prerequisite:** CRMJUS 061 or POST Modular Format Level III Officer Course at a Regional Accredited Academy.**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process and READ 015.

This course satisfies Peace Officer Standards and Training (POST) requirements for Level II reserve peace officer certification. This course covers but is not limited to: policing in the community, crimes against persons, property and the justice system, laws of arrest, evidence and search and seizure, use of force, arrest and control, patrol procedures, vehicle pullovers, firearms and chemical agents, crime scenes, evidence and forensics investigative report writing, crimes in progress, and cultural diversity. THIS COURSE IS LIMITED TO STUDENTS WHO HAVE SUCCESSFULLY COMPLETED THE FOLLOWING STATE SCREENING REQUIREMENTS: POSSESSION OF A VALID CALIFORNIA DRIVER'S LICENSE WITHOUT RESTRICTIONS, OTHER THAN REQUIRED EYEGLASSES OR CONTACT LENSES, AND POSSESSION OF A CURRENT LETTER OF CLEARANCE ISSUED BY THE CALIFORNIA DEPARTMENT OF JUSTICE THAT CERTIFIES THE RIGHT TO BE IN POSSESSION OF A FIREARM.

Associate Degree Applicable**CRMJUS 061 6.5 Units****Reserve Level III****Lecture:** 81 contact hours**Lab:** 118 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process and READ 015.

This course satisfies Peace Officer Standards and Training (POST) requirements for Level III reserve peace officer certification. The PC 832 course is merged in this Level III course. Curriculum covers ethics and professionalism, the criminal justice system, defensive tactics, information systems, criminal law, laws of arrest, search and seizure, firearms, driver awareness, first aid and CPR, custody, evidence and report writing. THIS COURSE IS LIMITED TO STUDENTS WHO HAVE SUCCESSFULLY MET STATE SCREENING REQUIREMENTS: POSSESSION OF A CALIFORNIA DRIVER'S LICENSE WITHOUT RESTRICTIONS, OTHER THAN REQUIRED EYEGLASSES OR CONTACT LENSES AND POSSESSION OF A CURRENT LETTER OF CLEARANCE ISSUED BY THE CALIFORNIA DEPARTMENT OF JUSTICE THAT CERTIFIES THE RIGHT TO BE IN POSSESSION OF A FIREARM.

Associate Degree Applicable**CRMJUS 070 5.5 Units****Basic Dispatcher's Course****Lecture:** 90 contact hours**Lab:** 30 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process and READ 015.

This course covers basic training for new dispatchers. Topics include but are not limited to professional orientation and ethics, criminal justice system, interpersonal communication, telephone technology and domestic violence. This course satisfies Peace Officers Standards and Training (POST) requirements for basic training of public safety dispatchers.

Associate Degree Applicable

Culinary Arts (CULART)

CULART 010 5.5 Units**Restaurant Service and Catering I****Lab:** 297 contact hours

This course provides a supervised internship in the Culinary Arts Program's operational restaurant. The concentration will be on building basic preparation techniques, recipe standardization, time management and preparing meals for customers.

Associate Degree Applicable**CULART 011 5.5 Units****Restaurant Service and Catering II****Lab:** 297 contact hours**Prerequisite:** CULART 010

This course provides a supervised internship in the student run restaurant. The concentration will be building on the basic preparation techniques, recipe standardization, time management and preparing meals for customers. The skills learned in this course will build on skills learned in Internship I.

Associate Degree Applicable**CULART 012 5.5 Units****Food Truck Restaurant and Catering Services****Lab:** 297 contact hours**Prerequisite:** CULART 010

This course provides a supervised internship in the culinary arts operational food truck restaurant. The concentration will be on building management and technical skills needed to manage or run a kitchen and caterings from a food truck.

Associate Degree Applicable**CULART 040 3 Units****Introduction to Baking****Lab:** 162 contact hours

This basic baking course highlights baking techniques found in commercial kitchens with a focus on quick breads, cookies, cakes, pies and artisan breads.

Associate Degree Applicable**CULART 041 5.5 Units****Desserts and Pastries****Lecture:** 36 contact hours**Lab:** 189 contact hours**Prerequisite:** CULART 040

This course highlights baking techniques found in commercial kitchens with a focus on cakes and decorating, artisan breads, and complex pastry.

Associate Degree Applicable**CULART 042 3 Units****Cake Decorating****Lab:** 162 contact hours

This class will provide the experience the student needs to become competent in cake decorating. This class will cover royal icing, butter icing, fondant, mirror glaze, fillings and ganache.

Associate Degree Applicable**CULART 043 5.5 Units****Advanced Desserts and Pastry/Chocolate/Sugar****Lab:** 297 contact hours**Prerequisite:** CULART 041

This course highlights baking techniques found in commercial kitchens with a focus on cakes and decorating, artisan breads, sugar work, chocolate work and complex pastry.

Associate Degree Applicable

CULART 044 3 Units**Introduction to Baking Skills, Ingredients, and Technology****Lecture:** 54 contact hours

This course examines the basic baking skills needed in order to work within the Food Service Industry. This course will include how to scale, the ingredient list and how to read a recipe, technology used in baking, the science behind baking and how and why baking works.

Associate Degree Applicable**CULART 050 3 Units****Healthy Cooking and Special Diets****Lecture:** 18 contact hours**Lab:** 108 contact hours

This hands-on cooking class is an overview of the important nutrition principles, beneficial foods, and cooking techniques that contribute to building better brain health. Students prepare anti-inflammatory and nutrient dense foods rich in healthy fats, herbs and spices, antioxidants, probiotics, fiber, vitamins and minerals to create a delicious meal preparation. The focus is on healthy eating, organic food, sustainability and special needs diets and cooking techniques.

Associate Degree Applicable**CULART 098 1-4 Units****Culinary Arts Work Experience****WRKEX:** 300 contact hours

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable**CULART 101 3 Units****Introduction to Hospitality and Customer Service****Lecture:** 54 contact hours

This course is an overview of the food service and hospitality industries with an emphasis on career opportunities, customer service, and personal success strategies. Topics include brief history, description and interrelationships of key industry segments emphasizing the application of technology, ethics, leadership, teams, critical thinking, and service standards for the restaurant and hotel-related business.

Associate Degree Applicable**Transfers to CSU only****CULART 160 3 Units****Introduction to Foods****Lab:** 162 contact hours**Prerequisite:** CULART 225

This course introduces food science principles and food preparation procedures and practices. The emphasis is on food safety and sanitation, ingredient functions and interactions, techniques and food presentation.

Associate Degree Applicable**Transfers to CSU only****C-ID:** NUTR 120**CULART 161 3 Units****Quantity Food Preparation****Lecture:** 18 contact hours**Lab:** 108 contact hours**Advisory:** CULART 160

This course details the basic principles, standards, procedures, and techniques necessary to prepare food for quantity production.

Associate Degree Applicable**Transfers to CSU only****CULART 180 5.5 Units****Small Business and Catering Management****Lecture:** 36 contact hours**Lab:** 189 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course covers catering and banquet techniques for serving 25 to 100 people. It includes developing a small business that will work with clients to develop an event, including customizing a menu and calculating staffing needs for preparation, cooking, transporting, setting up, serving and cleaning up. This course also caters to event planning.

Associate Degree Applicable**Transfers to CSU only****CULART 201 3 Units****Management of Human Resources in Hospitality****Lecture:** 54 contact hours

This course highlights the effective management techniques of human resources as it applies to hotels, restaurants and other hospitality workplaces. It emphasizes personnel planning, recruitment, selection, training, performance management, coaching, counseling and discipline, delegation and decision making.

Associate Degree Applicable**Transfers to CSU only****CULART 205 3 Units****Principles of Design and Presentation****Lecture:** 54 contact hours

This course will explore the theory behind design and layout of platters, trays and plates for presentation. Students will learn presentation standards, matching and pairing of foods, and wines and sauces that make up presentation.

Associate Degree Applicable**CULART 225 3 Units****Sanitation and Safety****Lecture:** 54 contact hours

This course focuses on the sanitation and safety issues involved with handling food through the food service process. Topics include the prevention of food borne illnesses; responsibilities of the food service manager and employees; the characteristics of a food-safe facility; food safety guidelines; and Hazard Analysis and Critical Control Point (HACCP) system and Serve Safe.

Associate Degree Applicable**Transfers to CSU only****C-ID:** HOSP 110**CULART 240 3 Units****Procurement, Purchasing and Selection****Lecture:** 54 contact hours

This course includes purchasing policies, specifications, procedures and controls and their implementation in the procurement of quantity foods, merchandise and supplies.

Associate Degree Applicable**Transfers to CSU only****CULART 250 3 Units****Food, Wine and Beverage Service Concepts****Lecture:** 54 contact hours

This course covers the psychology of service, dining room organization, serving styles, wine and beverage service, staffing and management; a thorough study of major wines, grape varieties and world-wide appellations where they are grown.

Associate Degree Applicable**Transfers to CSU only**

CULART 275 3 Units**Food, Beverage and Labor Cost Control****Lecture:** 54 contact hours**Prerequisite:** ACCT 200**Advisory:** CULART 240

This course includes the analysis of food, beverage and labor cost controls within a hospitality operation. Emphasis is on problem solving, cost control techniques to maximize profit while managing expenses. Topics include: establishing standards, cost-volume-profit-analysis, forecasting, purchasing and storage controls, menu costing and pricing, theft prevention and labor control.

Associate Degree Applicable**Transfers to CSU only****CULART 280 3 Units****Principles of Food and Beverage Management****Lecture:** 54 contact hours

In this course the students learn principles of menu planning, sales mix, standardization of recipes, food costing and establishing quality standards. It prepares the students to manage or own a food and beverage establishment.

Associate Degree Applicable**Transfers to CSU only**

Dance (DANCE)

DANCE 101A 2 Units**Beginning Modern Dance****Lab:** 108 contact hours

This course focuses on the “inner impulse” of modern dance and draws upon the movement vocabularies of classical, post-modern, and contemporary styles. A strong emphasis is placed on the acquisition of beginning modern dance movement vocabulary, dynamic alignment, and suppleness, flexibility, rhythmically, musicality, endurance and balance.

Associate Degree Applicable**Transfers to both UC/CSU****DANCE 101B 2 Units****Beginning/Intermediate Modern Dance****Lab:** 108 contact hours**Prerequisite:** DANCE 101A

This beginning/intermediate level of Modern Dance utilizes the basic knowledge of beginning modern dance techniques to increase the movement vocabularies of classical, post-modern, and contemporary styles. Students will utilize a higher level of codified modern dance terminology and combinations, which are essential to move forward in modern dance.

Associate Degree Applicable**Transfers to both UC/CSU****DANCE 102A 2 Units****Intermediate Modern Dance****Lab:** 108 contact hours

This course offers an intermediate study of modern dance techniques. It will include movement vocabularies of Graham, Horton, Cunningham, Limon and the post modern and contemporary styles of today. Emphasis is on expanding and deepening the dancer's technical and expressive skills through more complicated techniques, combinations and improvisations. Concert and performance is required.

Associate Degree Applicable**Transfers to both UC/CSU****DANCE 102B 2 Units****Intermediate/Advanced Modern Dance****Lab:** 108 contact hours**Prerequisite:** DANCE 102A

This course explores further the development of modern dance skills, techniques and vocabulary developed in beginning through intermediate modern dance. An in-depth emphasis is placed on increased flexibility and endurance, clarity of technique, rhythm, time, form and energy through choreographic and improvisational exercises and combinations. Concert attendance and performance is required.

Associate Degree Applicable**Transfers to both UC/CSU****DANCE 103A 2 Units****Beginning Ballet****Lab:** 108 contact hours

This course is an introduction to basic ballet technique emphasizing ballet etiquette, terminology, placement, and alignment, warm-up and injury prevention; body conditioning principles as they relate to ballet technique, flexibility and strengthening exercises, basic barre, basic center floor, and traveling combination exercises.

Associate Degree Applicable**Transfers to both UC/CSU****DANCE 103B 2 Units****Beginning/Intermediate Ballet****Lab:** 108 contact hours**Prerequisite:** DANCE 103A

This course will utilize the knowledge learned in Beginning Ballet to become more proficient in ballet technique by using higher level codified ballet terminology, utilizing placement, alignment, expanding and more complex warm-up technique, basic barre, basic center technique, increasing flexibility, furthering strengthening exercises and more complex traveling combination exercises as it relates to this level of ballet, while reviewing cumulative ballet technique for higher levels of ballet.

Associate Degree Applicable**Transfers to both UC/CSU****DANCE 105A 2 Units****Beginning Jazz Dance****Lab:** 108 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is an introduction to the beginning techniques of Jazz Dance with a focus on movement vocabulary, placement, centering, balance, alignment, strength, flexibility, and across the floor progressions. Concert performance is optional for this class.

Associate Degree Applicable**Transfers to both UC/CSU****DANCE 105B 2 Units****Beginning/Intermediate Jazz Dance****Lab:** 108 contact hours**Prerequisite:** DANCE 105A

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is a comprehensive survey of beginning/ intermediate techniques of Jazz Dance with a focus on vocabulary, placement, centering, balance, alignment, strength, flexibility, and across the floor progressions in preparation for the intermediate level.

Associate Degree Applicable**Transfers to both UC/CSU**

DANCE 106A 2 Units**Intermediate Jazz Dance****Lab:** 108 contact hours**Prerequisite:** DANCE 105B**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course provides a continuing study of jazz dance techniques including the styles and techniques of jazz innovators such as Jack Cole, Gus Giordano, Luigi, Jerome Robbins, Bob Fosse, and Joe Tremaine. Historical and theoretical understandings of jazz technique from film, television, and stage are a primary focus as well as the development of the dancer's technical and expressive skills. Concert performance is required to pass this class.

Associate Degree Applicable**Transfers to both UC/CSU****DANCE 106B 2 Units****Intermediate/Advanced Jazz Dance****Lab:** 108 contact hours**Prerequisite:** DANCE 106A**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course provides a continuing study of jazz dance techniques including the styles and techniques of jazz innovators such as Gillian Lynne, Debbie Allen, Michael Bennet, Luigi, Jerome Robbins, Bob Fosse, and Joe Tremaine. Contemporary and commercial styles will also be introduced. Historical and theoretical understandings of jazz techniques related to the dancers expressive skills are the primary focus. Concert performance is required to pass this class.

Associate Degree Applicable**Transfers to both UC/CSU****DANCE 107X2 2 Units****Beginning Tap Dance****Lab:** 108 contact hours

This is a basic course of instruction in the art of tap dancing. Topics include physical strengthening, rhythmic awareness, execution of basic tap-dancing steps, floor exercises, vocabulary for theatrical presentation of tap choreography, audience awareness and basic acting skills. This course may be taken two times.

Associate Degree Applicable**Transfers to both UC/CSU****DANCE 114X4 4 Units****Dance Rehearsal and Performance****Lab:** 216 contact hours

This course provides instruction and supervision of rehearsal and performance in various dance productions. ENROLLMENT IN THIS CLASS IS CONTINGENT UPON AN AUDITION FOR A CURRENT DANCE PRODUCTION. This course may be taken four times.

Associate Degree Applicable**Transfers to both UC/CSU****DANCE 200 3 Units****Dance History and Appreciation****Lecture:** 54 contact hours**Prerequisite:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is a comprehensive survey of dance from primitive times up to the 21st Century. Emphasis is placed on historical perspectives revealing dance as an emerging art form. Course material also includes the relation of dance to religion, culture, politics, social attitudes and its relation to other art forms.

Associate Degree Applicable**Transfers to both UC/CSU****DANCE 206X4 4 Units****Dance Production****Lab:** 216 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course provides instruction and analysis of all aspects of dance production including organizing a dance production; publicity and marketing; budget; theatrical and dance lighting; set design; costumes and makeup; and instruction in elements of physical theater, such as stage terminology, stage directions, and roles of theatre personnel. This course may be taken four times.

Associate Degree Applicable**Transfers to both UC/CSU**

Economics (ECON)

ECON 100 3 Units**Introduction to Economics****Lecture:** 54 contact hours

This course is an entry-level, general education course which introduces and surveys basic macroeconomic, microeconomic, and personal finance principles. This course emphasizes the causes and consequences of the business cycle on output, employment, and prices as well as, basic supply and demand analysis across different market structures. Analysis further includes the role of the government in the macro-economy and the micro-economy.

Associate Degree Applicable**Transfers to both UC/CSU****ECON 200 3 Units****Principles of Macroeconomics****Lecture:** 54 contact hours**Advisory:** Eligibility for ENGL 101 or ENGL 101H as determined by SBVC assessment process and MATH 095 or MATH 096.

This course provides an introduction to macroeconomic theory and the role of fiscal and monetary policies in economics with special emphasis on national economic problems, aggregate measures of economic activity, macroeconomic equilibrium, financial institutions, economic growth, the business cycle and international economics.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ECON 202

ECON 200H 3 Units**Principles of Macroeconomics - Honors****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H**Advisory:** MATH 095 or MATH 096

This course provides an introduction to macroeconomic theory and the role of fiscal and monetary policies in economics with special emphasis on national economic problems, aggregate measures of economic activity, macroeconomic equilibrium, economic growth, the business cycle, financial institutions and international economics. This course is intended for students in the Honors Program but is open to all students who desire more challenging coursework.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ECON 202**ECON 201 3 Units****Principles of Microeconomics****Lecture:** 54 contact hours**Advisory:** Eligibility for ENGL 101 or ENGL 101H as determined by SBVC assessment process and MATH 095 or MATH 096.

This course provides an introduction to microeconomic theory, including economic development, international economics, and comparative economic systems with special emphasis on microeconomic problems such as the provisioning of public goods and environmental regulations.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ECON 201**ECON 201H 3 Units****Principles of Microeconomics - Honors****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H**Advisory:** MATH 095 or MATH 096

This course provides an introduction to microeconomic theory, including economic development, international economics, and comparative economic systems with special emphasis on microeconomic problems such as the provisioning of public goods and environmental regulations. This course is intended for students in the Honors Program but is open to all students who desire more challenging coursework.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ECON 201**ECON 208 4 Units****Business and Economic Statistics****Lecture:** 72 contact hours**Prerequisite:** MATH 095 or MATH 096 or eligibility for MATH 102 as determined through the SBVC assessment process.

This course is a study of statistical methods commonly used in business and economics including measures of central tendency; measures of dispersion and skewness; probability concepts and distributions; statistical inferences; parametric and non-parametric hypothesis testing; index numbers time series analysis; simple regression, and correlation analysis.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MATH 110

Electricity (ELEC)

ELEC 021 3 Units**Blueprint Reading for Building Energy Systems****Lecture:** 54 contact hours**Advisory:** TECALC 087

This course is a study of basic information for reading blueprints and construction drawings. It is designed for those who must assimilate information found in working drawings and specifications.

Associate Degree Applicable**ELEC 050 4 Units****Zero Net Energy Building Science****Lecture:** 72 contact hours

Zero Net Energy (ZNE) Building Science includes an overview of many progressive measures that improve the energy performance of buildings. Studies focus on architectural design of building, construction methodology, green HVAC systems, renewable energy systems and the terminology used in the ZNE Industry. A survey of projects, policies and programs driving ZNE performance in residential and non-residential buildings will be studied.

Associate Degree Applicable**ELEC 091 3 Units****Fundamentals of Solar Energy****Lecture:** 54 contact hours**Prerequisite:** ELECTR 230

This course is designed for students interested in a career in the solar industry. The fundamental principles and functions of photovoltaic industry will be introduced along with the planning, installation and maintenance of all necessary components for a photovoltaic system. The transmission and distribution of electric power will be reviewed, and basic concepts of electricity, identification, functions and operations of components will be surveyed.

Associate Degree Applicable**ELEC 101 3 Units****Supply Chain Technology****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ELECTR 110 and ELECTR 111

This course is an industrial technology overview covering the basic knowledge and skills needed for supply chain technicians to successfully work in automated factories, warehouses, and distribution centers. Introduction to the troubleshooting and maintenance of complex electromechanical systems is a major focus of this class.

Associate Degree Applicable**Transfers to CSU only****ELEC 215C 4 Units****Electrical Control of Hydraulic-Pneumatic Systems****Lecture:** 36 contact hours**Lab:** 108 contact hours**Prerequisite:** ELECTR 115 and ELECTR 116

This course introduces hydraulic/pneumatic fundamentals, principle of electrical control of hydraulic/pneumatic systems, electrical concepts of ladder diagrams, functional systems of electrical/hydraulic/pneumatic sequencing of actuators, industrial applications, industrial-type hydroelectric and electro pneumatic circuits, and troubleshooting electrically controlled hydraulic/pneumatic systems.

Associate Degree Applicable**Transfers to CSU only**

ELEC 216C 4 Units**Introduction to Industrial Electricity****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** ELECTR 110 and ELECTR 111

This course covers the study of electrical power transmission, the National Electrical Code, electrical blueprints, residential and commercial wiring.

Associate Degree Applicable**Transfers to CSU only****ELEC 217C 4 Units****Industrial Electricity****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** ELECTR 115 and ELECTR 116

This course covers the study of DC motors, single and polyphase AC motors, and the necessary controls and measuring equipment used for industrial circuit protection and switching equipment.

Associate Degree Applicable**Transfers to CSU only****ELEC 218C 4 Units****Controlling Industrial Electricity****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** ELECTR 115 and ELECTR 116

This course covers the study of DC, AC, and polyphase motor operation, mechanical and programmable machine controls, relays and programmable logic controllers (PLCs), ladder logic diagrams and the communication network linking the programmer, the controller, the laptop computer and the machine.

Associate Degree Applicable**Transfers to CSU only****ELEC 219C 4 Units****Industrial Electronic Systems Controls II****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** ELEC 218C

This course examines system application of industrial electronic systems (PLC) including industrial production and processes, automation, and programmable motor controllers. Emphasis is on programmable logic controllers.

Associate Degree Applicable**Transfers to CSU only**

Electronics (ELECTR)

ELECTR 098 1-4 Units**Electronics Work Experience****WRKEX:** 300 contact hours

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable**ELECTR 110 3 Units****Direct Current Circuit Analysis****Lecture:** 54 contact hours**Corequisite:** ELECTR 111

This is a comprehensive course in direct current circuit analysis including Ohm's law, series and parallel circuit analysis, voltage and current dividers, DC meters, Kirchhoff's laws, magnetic circuits, and network theorems.

Associate Degree Applicable**Transfers to both UC/CSU****ELECTR 111 1 Unit****Direct Current Circuit Laboratory****Lab:** 54 contact hours**Corequisite:** ELECTR 110

This course is the laboratory complement to ELECTR 110 including experiments reinforcing the theory of electricity and the necessary technical skills.

Associate Degree Applicable**Transfers to both UC/CSU****ELECTR 115 3 Units****Alternating Current Circuit Analysis****Lecture:** 54 contact hours**Prerequisite:** ELECTR 110 and ELECTR 111**Corequisite:** ELECTR 116

This course is an in-depth analysis of alternating current circuits to include AC generation and transformation, inductance and inductive circuits, capacitance and capacitive circuits, time constants, rectangular and polar notation, AC circuit analysis, resonance, and filters.

Associate Degree Applicable**Transfers to both UC/CSU****ELECTR 116 1 Unit****Alternating Current Circuit Laboratory****Lab:** 54 contact hours**Prerequisite:** ELECTR 110 and ELECTR 111**Corequisite:** ELECTR 115

This course is the laboratory complement to ELECTR 115 including skill training in reading and interpreting measurements on an oscilloscope, using QT boards, function generators, and other test equipment.

Associate Degree Applicable**Transfers to both UC/CSU****ELECTR 155 3 Units****Electronic Drawing and Assembly****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ELECTR 110

This course covers electronic schematic capture, simulation, export to printed circuit board design, layout, and auto-routing software. It includes basic Computer Aided Design (CAD) drafting, block diagrams, library component templates, and printed circuit board (PCB) design, fabrication, and assembly, using with through-hole and surface-mount technology and devices (SMT and SMD).

Associate Degree Applicable**Transfers to CSU only****ELECTR 220C 3 Units****F.C.C. Rules and Regulations****Lecture:** 54 contact hours

This course is a review of the requirements and questions for the General Radiotelephone Operator's License offered by the Federal Communications Commission.

Associate Degree Applicable**Transfers to CSU only**

ELECTR 230 3 Units**Semiconductor Devices****Lecture:** 54 contact hours**Prerequisite:** ELECTR 110

This course is a study of semiconductor devices including the chemistry and physics of the structure of the atom and the operation of semiconductor devices based on energy level analysis.

Associate Degree Applicable**Transfers to CSU only****ELECTR 235 4 Units****Solid State Circuit Analysis****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** ELECTR 230

This course covers an analysis of discrete solid-state circuits and their design including diodes, circuit configurations, amplifiers and amplification, biasing techniques, feedback principles, FETs, photo devices, and evaluation of designed circuits.

Associate Degree Applicable**Transfers to CSU only****ELECTR 250C 4 Units****Radio Transmitters, Receivers and Antennas****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** ELECTR 115 and ELECTR 116

In this course, students explore topics of electronic communications, such as the electromagnetic frequency spectrum, frequency bands, analog and digital modulation, digital data, antennas, transmission lines and loads, government services and fiber optics. Exercises include diagramming modern transmitter and receiver components, plotting impedances, and making line and load conversions.

Associate Degree Applicable**Transfers to CSU only****ELECTR 255C 4 Units****Telephone and Data Networking****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** ELECTR 115 and ELECTR 116

This course includes telephone topology with emphasis on the Open System Interconnection (OSI) model, telephony color code, tools, patch panels, phone wiring and installation, voice and data block wiring, installation, and programming/ troubleshooting a digital key system and network.

Associate Degree Applicable**Transfers to CSU only****ELECTR 257C 4 Units****Navigation and Communication Systems****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** ELECTR 250C

This course covers the bench test, installation and ramp test of transmitter and receiver systems and their operating principles. Systems include Auto Direction Finder, Very High Frequency Omnidirectional Range, LORAN-C, Omega, INS, DME, ILS, VHF communication, HF communication, FM transceivers and transponder.

Associate Degree Applicable**Transfers to CSU only****ELECTR 265 4 Units****Digital Logic Design****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course covers combinational logic utilizing Boolean algebra and the binary numbering system. Topics include Karnaugh maps, truth tables, coding, switching circuits, converters, logic circuit elements, timers, digital-to-analog and analog-to-digital conversions, decoders, multiplexers, demultiplexers, and displays.

Associate Degree Applicable**Transfers to CSU only****ELECTR 266 4 Units****Microprocessor Technology With Assembly Language****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** ELECTR 265

This course covers the fundamental principles of microprocessors and microcontrollers. The architecture of the 8051 series microcontroller is highlighted along with its' operation and applications in embedded systems. Students make use of assembly language and C language to interface with both analog and digital circuitry. Software simulation tools and microcontroller trainer boards are used in lab exercises and a final project.

Associate Degree Applicable**Transfers to CSU only****ELECTR 270 4 Units****Linear Integrated Circuit Analysis****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** ELECTR 115 and ELECTR 116

This course is a review of bipolar transistor fundamentals and differential amplifiers with emphasis on inner connections and circuit designs using integrated circuit operational amplifiers, phase-lock loops, and current differentiating amplifiers. Includes breadboarding and evaluation of various types of active linear and pulse circuits involving operational amplifiers and phase-lock loops.

Associate Degree Applicable**Transfers to CSU only****ELECTR 280C 4 Units****Computer Operation and Maintenance****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** ELECTR 266

This course provides a working knowledge of the principles and analysis techniques applicable to computer operations and maintenance. It includes the theory and experience necessary to understand and analyze computer circuitry as needed for entry-level work in the computer and electronics industry.

Associate Degree Applicable**Transfers to CSU only****ELECTR 290C 4 Units****Industrial Computers and Robotics Maintenance****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** ELECTR 266

This course is a comprehensive study of computers and robots used in industry. Including diagnostics and programming for controlling robots, machines and medical equipment.

Associate Degree Applicable**Transfers to CSU only**

ELECTR 600 Noncredit**Preparation for DC Circuit Certification****Lecture:** 54 contact hours

This noncredit electronics technology course prepares students with the specific skills and knowledge in the field of Direct Current (DC) processes and circuits. This course prepares students to take the DC Basics Certification Exam with the Electronics Technicians Association (ETA).

ELECTR 601 Noncredit**Preparation for AC Basics Certification****Lecture:** 54 contact hours

This noncredit electronics technology course prepares students with the specific skills and knowledge in the field of AC circuits. This course prepares students to take the AC Basics Certification Exam with the Electronics Technicians Association (ETA).

ELECTR 602 Noncredit**Preparation for Analog Electronics Certification****Lecture:** 108 contact hours

This noncredit electronics technology course prepares students with the specific skills and knowledge in the field of analog processes and circuits. This course prepares students to take the Analog Electronics Certification Exam with Electronics Technicians Association (ETA).

ELECTR 603 Noncredit**Preparation for Digital Basics Certification****Lecture:** 54 contact hours

This noncredit electronics technology course prepares students with the specific skills and knowledge in the field of digital processes and circuits. This course prepares students to take the Digital Basics Certification Exam with the Electronics Technicians Association (ETA).

ELECTR 604 Noncredit**Preparation for Comprehensive Electronics Certification****Lecture:** 54 contact hours

This noncredit electronics technology course prepares students with the specific skills and knowledge in the field of comprehensive knowledge of motors, generators, control circuits, circuit protection, and power distribution. This course prepares students to take the Comprehensive Electronics Certification with the Electronics Technicians Association (ETA).

ELECTR 620 Noncredit**Introduction to Computer Networking****Lecture:** 54 contact hours**Lab:** 54 contact hours

This noncredit electronics technology course prepares students to take the ETA (Electronics Technicians Association International) STS-CN industry certification. The course covers wire and wireless local area network basics, Internet/VoIP services and security, hardware and software installation, and cabling distribution.

ELECTR 621 Noncredit**Security, Alarm, and Surveillance Systems****Lecture:** 54 contact hours**Lab:** 54 contact hours

This noncredit electronics technology course prepares students to take the ETA (Electronics Technicians Association International) STS-SS industry certification. The course covers closed-circuit television (CCTV) system, security and fire alarm system, Voice-over-Internet Protocol (VoIP), security cameras, smart locks, and smart access control.

ELECTR 622 Noncredit**Smart Environmental Controls****Lecture:** 54 contact hours**Lab:** 54 contact hours

This noncredit electronics technology course prepares students to take the ETA (Electronics Technicians Association International) STS-EC industry certification. The course covers smart lighting, smart thermostats, smart plugs and switches, smart HVAC, and carbon monoxide and smoke detectors, and other miscellaneous smart devices.

ELECTR 623 Noncredit**Audio-Visual Entertainment Systems****Lecture:** 54 contact hours**Lab:** 54 contact hours

This noncredit course prepares students to take the ETA (Electronics Technicians Association International) STS-AV industry certification. The course covers smart televisions and projectors, HD, UHD, LED, and OLED television technologies, wireless smart speakers, Wi-Fi screencasting, audio and HD cabling, amplifiers and receivers, surround sound speaker systems and connectors, rackmounts, and other accessories.

Engineering (ENGR)

ENGR 100 1 Unit**Engineering Career Exploration****Lecture:** 18 contact hours

Advisory: Eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course introduces students to the major fields of specialization within engineering and engineering technology professions. This course gives students a broad understanding of various career opportunities and the specialized demands and rewards of each field.

Associate Degree Applicable**Transfers to both UC/CSU****ENGR 265 3 Units****Engineering Mechanics - Statistics****Lecture:** 54 contact hours**Prerequisite:** PHYSIC 200

This is a foundation course in many branches of engineering. Some of the topics covered are two and three-dimensional equilibrium of particles and rigid bodies, analysis of frames, machines, trusses, non-coplanar force systems, and the principles of friction.

Associate Degree Applicable**Transfers to both UC/CSU**

English (ENGL)

ENGL 015 4 Units**Preparation for College Writing****Lecture:** 72 contact hours

Prerequisite: ENGL 914 or eligibility for ENGL 015 as determined through the SBVC assessment process.

This is a writing course designed to prepare students for ENGL 101. The primary focus is on the development of the paragraph and short essay. The course includes a review of grammar, sentence structure, and punctuation.

Associate Degree Applicable

ENGL 032 3 Units**Creative Writing****Lecture:** 54 contact hours

This is an introductory course in creative writing, with an emphasis on poetry and fiction. Students will learn and practice creative writing by producing their own work in the genres studied, reading and learning from the work of established and peer writers, and participating in the workshop method. ENGL 032 is the non-transfer equivalent of ENGL 232. A student taking ENGL 032 may not earn credit for ENGL 232.

Associate Degree Applicable**ENGL 055 3 Units****Children's Literature****Lecture:** 54 contact hours

This survey course will have students read representative works of children's literature, will emphasize the development of close reading skills, and will promote an appreciation for the aesthetic qualities of literature written for children. ENGL 055 is the non-transfer equivalent of ENGL 155. A student taking ENGL 055 may not earn credit for ENGL 155.

Associate Degree Applicable**ENGL 061 3 Units****Women Writers****Lecture:** 54 contact hours

This course is a survey of poetry and prose by prominent women writers that explores historical and contemporary issues in women's lives. ENGL 061 is the non-transfer equivalent of ENGL 161. A student taking ENGL 061 may not earn credit for ENGL 161.

Associate Degree Applicable**ENGL 063 3 Units****Chicano Literature****Lecture:** 54 contact hours

This course covers a representative survey of Chicano literature, including novels, drama, poetry, and essays which focus on the cultural, social, and political developments and themes that shape and characterize Chicano culture and literary expression. ENGL 063 is the non-transfer equivalent of ENGL 163. A student taking ENGL 063 may not earn credit for ENGL 163.

Associate Degree Applicable**ENGL 065 3 Units****African-American Literature****Lecture:** 54 contact hours

This course is a comprehensive examination of African American literature, including prose, poetry, and fiction, from the early oral tradition to present. The course also incorporates understanding of the cultural trends and time periods and their relationships to literature. ENGL 065 is the non-transfer equivalent of ENGL 165. A student taking ENGL 065 may not earn credit for ENGL 165.

Associate Degree Applicable**ENGL 070 3 Units****English Literature: Middle Ages to 18th Century****Lecture:** 54 contact hours

Prerequisite: ENGL 914 or eligibility for ENGL 015 as determined by SBVC assessment process.

This course surveys English literature to the last quarter of the 18th Century including coverage of all significant literary types in the development of English literature from the Middle Ages to the late 18th century. ENGL 070 is the non-transfer equivalent of ENGL 170. A student taking ENGL 070 may not earn credit for ENGL 170.

Associate Degree Applicable**ENGL 071 3 Units****English Literature: 18th Century to Present****Lecture:** 54 contact hours

Prerequisite: ENGL 914 or eligibility for ENGL 015 as determined by SBVC assessment process.

This course surveys English literature to the last quarter of the 18th Century including coverage of all significant literary types in the development of English literature from the Middle Ages to the late 18th century. ENGL 071 is the non-transfer equivalent of ENGL 171. A student taking ENGL 071 may not earn credit for ENGL 171.

Associate Degree Applicable**ENGL 075 3 Units****Literature and Religion of the Bible****Lecture:** 54 contact hours

This course covers The English Bible as literature and as religion including an examination of the types of literature found in the Bible, the historical and religious context in which the literature was developed and an extensive reading of the two testaments. ENGL 075 is the non-transfer equivalent of ENGL 175. A student taking ENGL 075 may not earn credit for ENGL 175.

Associate Degree Applicable**ENGL 077 3 Units****Shakespeare****Lecture:** 54 contact hours

Prerequisite: ENGL 914 or eligibility for ENGL 015 as determined by SBVC assessment process.

This course includes a critical analysis of a selection of Shakespeare's plays representative of his literary development. Lectures, films, and recordings will be used to examine life and the theater in Elizabethan England. ENGL 077 is the non-transfer equivalent of ENGL 275. A student taking ENGL 077 may not earn credit for ENGL 275.

Associate Degree Applicable**ENGL 080 3 Units****World Literature: To 17th Century****Lecture:** 54 contact hours

This is an introduction to world literature from the beginning to the mid-17th Century, including coverage of selected samples of literature within the context of the culture and time in which they were written. ENGL 080 is the non-transfer equivalent of ENGL 280. A student taking ENGL 080 may not earn credit for ENGL 280.

Associate Degree Applicable**ENGL 081 3 Units****World Literature: 17th Century to Present****Lecture:** 54 contact hours

This is an introduction to world literature from the 17th century to the present, including coverage of selected samples of literature within the context of the culture and time in which they were written. ENGL 081 is the non-transfer equivalent of ENGL 281. A student taking ENGL 081 may not earn credit for ENGL 281.

Associate Degree Applicable**ENGL 086 1 Unit****Strategies for College Composition****Lecture:** 18 contact hours

Prerequisite: Please refer to your Assessment printout for the correct course.

Corequisite: ENGL 101|

This course provides support for English 101, including strategies for college level reading, writing and critical thinking. This course is taken as pass/no pass only.

Associate Degree Applicable

ENGL 087 2 Units**Fundamentals for College Composition****Lecture:** 36 contact hours**Corequisite:** ENGL 101

This course provides intensive support for English 101, including fundamentals for successful college level reading, writing and critical thinking. This course is offered as pass/no pass only.

Associate Degree Applicable**ENGL 101 4 Units****Freshman Composition****Lecture:** 72 contact hours

Prerequisite: Eligibility for ENGL 101 or ENGL 101H as determined through the SBVC assessment process.

Corequisite: Students who require supplemental support to succeed in ENGL 101 may be required to take ENGL 086 or ENGL 087 depending on assessment.

This is a writing course emphasizing expository and argumentative essays, which helps students develop writing skills necessary for other degree applicable courses. It includes reading and analysis of various forms of writing, instruction in library research and preparation of documented research papers.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 100**ENGL 101H 4 Units****Freshman Composition-Honors****Lecture:** 72 contact hours

Prerequisite: Eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This is a writing course which emphasizes expository and argumentative essays, which helps students develop writing skills necessary for other degree applicable courses. It includes reading and analysis of various forms of writing, instruction in library research and preparation of documented research papers. This course is intended for students in the Honors Program, but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 100**ENGL 102 4 Units****Intermediate Composition and Critical Thinking****Lecture:** 72 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course provides further work in argumentative and critical writing, critical thinking, analysis of non-fiction texts (and a work of literature), research and documentation.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 105**ENGL 102H 4 Units****Intermediate Composition and Critical Thinking - Honors****Lecture:** 72 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course provides further work in argumentative and critical writing, critical thinking, analysis of non-fiction texts (and at least 2 works of literature), research and documentation. This course is intended for students in the Honors Program but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 105**ENGL 122 3 Units****Journalism Production: Introduction****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course provides an introduction to gathering, synthesizing/organizing and writing news in journalistic style across multiple platforms resulting in the production of the campus student newsmagazine. Topics include the role of the journalist and related legal and ethical issues. Students will report and write based on their original interviews and research to produce news content. Experiences may include covering speeches, meetings and other campus events, writing under deadline, and use of AP Style.

Associate Degree Applicable**Transfers to CSU only****C-ID:** JOUR 130**ENGL 123 3 Units****Journalism Production: Intermediate****Lecture:** 54 contact hours**Prerequisite:** ENGL 122

This course provides further instruction on gathering, synthesizing/organizing and writing news in journalistic style across multiple platforms resulting in the production of the campus newspaper as well as development of editorial leadership skills. Topics include the role of the journalist and related legal and ethical issues. Students will report and write based on their original interviews and research to produce news content. Experiences may include covering speeches, meetings and other campus events, writing under deadline, and use of AP Style.

Associate Degree Applicable**Transfers to CSU only****ENGL 125 3 Units****Literary Magazine Production****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course covers the theory and practice of producing a literary magazine including instruction on all relevant aspects of editing, design and layout. Students in this class are responsible for production of the college literary magazine.

Associate Degree Applicable**Transfers to CSU only**

ENGL 140 3 Units**Exploring the World of Science Fiction****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course is a survey of science fiction genre from the late 19th Century to the present. Students read, analyze, and discuss major themes, genres (short story, novels, drama, and poetry), media (radio, film, tv, internet), and the function of science fiction as a literary form that reflects human concern for solving or escaping problems in an increasingly technological culture and age.

Associate Degree Applicable**Transfers to both UC/CSU****ENGL 141 3 Units****Mystery and Detective Fiction****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course will introduce the student to mystery and detective fiction as a literary genre and as popular literature, exploring literary elements such as plot, sub-plot, suspense, setting, back story, procedural clues, hook, twist, ethical concerns of investigative methods, and civic life. Discussions of various styles and themes will engage students in critical thinking applied to historical era, multicultural contexts, and gender roles in mystery writing.

Associate Degree Applicable**Transfers to both UC/CSU****ENGL 151 3 Units****Freshman Composition and Literature****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course includes the study of representative works of fiction, poetry, and drama, including an understanding of their cultural, historical and aesthetic contexts, as well as an emphasis on the fundamental principles of literacy criticism and interpretation, including student writing based on critical reading.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 120**ENGL 151H 3 Units****Freshman Composition and Literature - Honors****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course includes the study of representative works of fiction, poetry, and drama, including an understanding of their cultural, historical and aesthetic contexts, as well as an emphasis on the fundamental principles of literacy criticism and interpretation, including student writing based on critical reading. This course is intended for students in the Honors Program but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 120**ENGL 153 3 Units****Literature and Film****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course studies literature that has been adapted into film. Students will read short stories, novels, and plays; view the film(s) adapted from each literary work; and write critical and analytic essays about the literature, the films, and their interplay.

Associate Degree Applicable**Transfers to both UC/CSU****ENGL 155 3 Units****Children's Literature****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This survey course will have students read representative works of children's literature, will emphasize the development of close reading skills, and will promote an appreciation for the aesthetic qualities of literature written for children. ENGL 155 is the transferable equivalent of ENGL 055. A student taking ENGL 155 may not earn credit for ENGL 055.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 180**ENGL 161 3 Units****Women Writers****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course is a survey of poetry and prose written by prominent women writers that explores historical and contemporary issues in women's lives. ENGL 161 is the transferable equivalent of ENGL 061. A student taking ENGL 161 may not earn credit for ENGL 061.

Associate Degree Applicable**Transfers to both UC/CSU****ENGL 163 3 Units****Chicano Literature****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course covers a representative survey of Chicano literature, including novels, drama, poetry, and essays which focus on the cultural, social, and political developments and themes that shape and characterize Chicano culture and literary expression. ENGL 163 is the transferable equivalent of ENGL 063. A student taking ENGL 163 may not earn credit for ENGL 063.

Associate Degree Applicable**Transfers to both UC/CSU****ENGL 165 3 Units****African-American Literature****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course is a comprehensive examination of African American literature, including prose, poetry, and fiction, from the early oral tradition to present. The course also incorporates understanding of the cultural trends and time periods and their relationships to literature. ENGL 165 is the transferable equivalent of ENGL 065. A student taking ENGL 165 may not earn credit for ENGL 065.

Associate Degree Applicable**Transfers to both UC/CSU****ENGL 175 3 Units****The Literature and Religion of the Bible****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course covers The English Bible as literature and as religion including an examination of the types of literature found in the Bible, the historical and religious context in which the literature was developed and an extensive reading of the two testaments. This course is also offered as RELIG 175. ENGL 175 is the transferable equivalent of ENGL 075. A student taking ENGL 175 may not earn credit for ENGL 075.

Associate Degree Applicable**Transfers to both UC/CSU**

ENGL 222 1-3 Units**Independent Study in English Literature****Lab:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

Students with previous course work in English may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of literature. This independent study would be appropriate for students wanting further work in literary studies including English Literature, World Literature, American Literature, Major Authors or other Special Genres or Topics, or Literary Theory. Prior to registration, a written contract must be prepared jointly by the instructor and the student.

Associate Degree Applicable**Transfers to CSU, Limited to UC, See Counselor for Additional Information****ENGL 223 1-3 Units****Independent Study in English: Writing****DIR:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

Students with previous course work in English may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of writing. This independent study would be appropriate for students wanting further work and practice in journalism or other forms of non-fiction writing, creative writing, etc. Prior to registration, a written contract must be prepared jointly by the instructor and the student.

Associate Degree Applicable**Transfers to CSU, Limited to UC, See Counselor for Additional Information****ENGL 224 1-3 Units****Independent Study in English: Production****DIR:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

Students with previous course work in English may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of the production of work in print or other text-based media. This independent study would be appropriate for students wanting further work and practice in print publication (print newspaper, magazine or journal production, etc.) or publication for the web (web-based magazine, newspaper, or journal). Prior to registration, a written contract must be prepared jointly by the instructor and the student.

Associate Degree Applicable**Transfers to CSU, Limited to UC, See Counselor for Additional Information****ENGL 232 3 Units****Creative Writing****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This is an introductory course in creative writing, with an emphasis in poetry and fiction. Students will learn and practice creative writing by producing their own work in the genres studied, studying and analyzing the work of established and peer writers, and participating in the workshop method. ENGL 232 is the transferable equivalent of ENGL 032. A student taking ENGL 232 may not earn credit for ENGL 032.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 200**ENGL 260 3 Units****American Literature to Mid 19th Century****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course introduces students to American Literary traditions. The course traces the beginnings of the earliest American literary voices up through 1865.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 130**ENGL 261 3 Units****American Literature From 1865 to Present****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course introduces students to American Literary traditions. The course traces American authors from 1865 to present.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 135**ENGL 270 3 Units****English Literature: Middle Ages to 18th Century****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course surveys English literature to the last quarter of the 18th Century including coverage of all significant literary types in the development of English literature from the Middle Ages to the late 18th century. ENGL 270 is the transferable equivalent of ENGL 070. A student taking ENGL 270 may not earn credit for ENGL 070.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 160**ENGL 270H 3 Units****English Literature: Middle Ages to 18th Century - Honors****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course surveys English literature to the last quarter of the 18th Century including coverage of all significant literary types in the development of English literature from the Middle Ages to the late 18th century. This course is intended for students in the Honors Program but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 160**ENGL 271 3 Units****English Literature: 18th Century to Present****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course surveys English literature from the late 18th Century to the present including coverage of all significant literary types. ENGL 271 is the transferable equivalent of ENGL 071. A student taking ENGL 271 may not earn credit for ENGL 071.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 165

ENGL 271H 3 Units**English Literature: 18th Century to Present - Honors****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course surveys English literature from the late 18th Century to the present including coverage of all significant literary types. This course is intended for students in the Honors Program but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 165**ENGL 275 3 Units****Shakespeare****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course includes a critical analysis of a selection of Shakespeare's plays representative of his literary development. Lectures, films, and recordings are used to examine life and theatre in Elizabethan England. ENGL 275 is the transferable equivalent of ENGL 077. A student taking ENGL 275 may not earn credit for ENGL 077.

Associate Degree Applicable**Transfers to both UC/CSU****ENGL 280 3 Units****World Literature: to 17th Century****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course is a comparative study of selected works, in translation and in English, of literature from around the world, including Europe, the Middle East, Asia, and other areas, from antiquity to the mid-17th century, including critical analysis of the culture and time in which they were written. ENGL 280 is the transferable equivalent of ENGL 080. A student taking ENGL 280 may not earn credit for ENGL 080.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 140**ENGL 281 3 Units****World Literature: 17th Century To Present****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course is a comparative study of selected works, in translation and in English, of literature from around the world, including Europe, the Middle East, Asia, and other areas, from the mid-17th century to the present, including critical analysis of the culture and time in which they were written. ENGL 281 is the transferable equivalent of ENGL 081. A student taking ENGL 281 may not earn credit for ENGL 081.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** ENGL 145**ENGL 615 Noncredit****Preparation and Remediation for English 015****Lecture:** 18 contact hours

This noncredit course is designed to equip students with skills that they can use to be better prepared for the English 015 course and the common final. The primary areas of focus are on the development of reading and test taking skills and strategies, in addition to strategies to effectively address the components of the English 015 common final. This course is a supplement to English 015 and does not serve as a prerequisite for English 101.

ENGL 911 1 Unit**Basic Grammar and Usage Review****Lecture:** 18 contact hours

This course covers a review of basic English grammar and common errors in grammar and usage.

ENGL 914 4 Units**Basic Writing****Lecture:** 72 contact hours

Prerequisite: READ 950 (or eligibility for READ 015) and eligibility for ENGL 914 as determined by the SBVC assessment process or ESL 941 and READ 950 (or eligibility for READ 015) as determined by the SBVC assessment process.

This course is a basic skills writing course that prepares students for ENGL 015. The focus is on the following: reading for comprehension, grammar, punctuation, usage and practice in writing effective sentences, paragraphs and a short essay.

Associate Degree Applicable

English As a Second Language (ESL)

ESL 601 Noncredit**ESL Beginning Level 1 - Introduction to Basic English Literacy****Lecture:** 72 contact hours

This noncredit course is designed to introduce low-beginning English language learners to basic English letter-sound correspondence, vocabulary, and sentence patterns. Students will start using English to speak about themselves, their families, and their community. In addition, students will learn to read and complete simple forms.

ESL 602 Noncredit**ESL Beginning Level 2 - English at Home and School****Lecture:** 72 contact hours

Advisory: ESL 601 or eligibility as determined through the SBVC assessment process or by advisement.

This noncredit course is designed to prepare low-beginning English language learners with vocabulary and sentence structure to communicate in social and academic settings. Students will learn to give and respond to directions, as well as to speak about home, classroom routines, and community life by using a variety of sentence patterns. In addition, students will learn basic note-taking skills.

ESL 603 Noncredit**ESL Beginning Level 3 - English for Work and Leisure****Lecture:** 72 contact hours

Advisory: ESL 602 or eligibility as determined through the SBVC assessment process or by advisement.

This noncredit course is designed to prepare intermediate-beginning English language learners to use a variety of English structures and vocabulary for work and leisure. Students will learn appropriate linguistic behaviors with regards to the setting and time of the occasion being discussed.

ESL 604 Noncredit**ESL Beginning Level 4 - English for Work and Education****Lecture:** 72 contact hours

Advisory: ESL 603 or eligibility as determined through the SBVC assessment process or by advisement.

This noncredit course is designed to prepare high-beginning English language learners to use Standard English for job interviews, and in conversations at work and in educational settings. Students will begin learning aspects of composition. In addition, students will learn effective note-taking skills.

ESL 620 Noncredit**English Pronunciation****Lecture:** 54 contact hours

This noncredit course is designed to help English language learners to improve their pronunciation skills in English. The class will focus on Standard English pronunciation, word stress, intonation differentiation, and vocabulary building.

ESL 650 Noncredit**Citizenship Preparation - Part 1: Basic English Listening, Speaking, Reading, and Writing****Lecture:** 72 contact hours**Advisory:** ESL 604 or eligibility as determined by the SBVC assessment process or by advisement.

This noncredit course is designed to prepare prospective candidates for the English portion of the U.S. citizenship process. Students will learn skills to improve their basic listening, speaking, reading, and writing abilities through practice and drills.

ESL 651 Noncredit**Citizenship Preparation - Part 2: Civic Principles and Fundamental U.S. History****Lecture:** 72 contact hours**Advisory:** ESL 940 or eligibility as determined by the SBVC assessment process or by advisement.

This noncredit course is designed to prepare prospective candidates for the civics portion of the U.S. citizenship process. Students will learn the rights and responsibilities of being a U.S. citizen, in addition to learning how to complete all required immigration forms and practicing the USCIS Citizenship Test by becoming familiar with U.S. history.

ESL 907 3 Units**Basic Conversational English****Lecture:** 54 contact hours

This course is designed to increase the skills of English language learners in basic conversation, listening and pronunciation of the English language. This course is taught through total English immersion.

ESL 930 4 Units**Composition Based ESL Level 1 - Beginning****Lecture:** 72 contact hours**Advisory:** ESL 604 or eligibility as determined by the SBVC assessment process.

This is the first of a four-course sequence designed to give English language learners a comprehensive understanding of English composition. The focus of this course is on creating effective sentences and paragraphs, including a study of grammar, punctuation and usage. The grammatical emphasis of this course will be on simple present and past tenses. It also has some emphasis on pronunciation, listening and speaking. This course is taught through total English immersion.

ESL 931 4 Units**Composition Based ESL Level 2 - Beginning****Lecture:** 72 contact hours**Prerequisite:** ESL 930 or eligibility as determined through the SBVC assessment process.

This is the second of a four-course sequence designed to give English language learners a comprehensive understanding of English composition. The focus of this course is on creating effective sentences and paragraphs, including a review of grammar, punctuation and usage. The grammatical emphasis of this course will be on present and past progressive tenses, and modal usage. It also has some emphasis on pronunciation, listening and speaking. This course is taught through total English immersion.

ESL 940 4 Units**Composition Based ESL Level 3 - Intermediate****Lecture:** 72 contact hours**Prerequisite:** ESL 931 or eligibility as determined through the SBVC assessment process.

This is the third of a four-course sequence designed to give English language learners a comprehensive understanding of English composition. The focus of this course is on creating effective sentences and paragraphs, including a review of grammar, punctuation and usage. The grammatical emphasis of this course will be on the present perfect, past perfect, and present perfect progressive tenses. This course is taught through total English immersion.

ESL 941 4 Units**Composition Based ESL Level 4 - Advanced****Lecture:** 72 contact hours**Prerequisite:** ESL 940 or eligibility as determined through the SBVC assessment process.

This is the last of a four-course sequence designed to give English language learners a comprehensive understanding of English composition. The focus of this course is on creating effective sentences, paragraphs and essays, including a review of grammar, punctuation and usage. This course is taught through total English immersion.

Environmental Science (ENVT)

ENVT 100 3 Units**Introduction to Environmental Science****Lecture:** 54 contact hours**Advisory:** ENGL 101 or eligibility for ENGL 101 or ENGL 101H as determined through the SBVC assessment process and MATH 962.

This course is an introduction to environmental issues from a scientific perspective. It focuses on physical, chemical, and biological processes within the Earth system, the interaction between humans and these processes, and the role of science in finding sustainable solutions.

Associate Degree Applicable**Transfers to both UC/CSU**

Film, Television, and Media (FTVM)

FTVM 098 1-4 Units**Media Arts Work Experience****WRKEX:** 300 contact hours

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable**Transfers to CSU only****FTVM 101 3 Units****Introduction to Electronic Media****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This course introduces the history, structure, function, economics, content, and evolution of radio, television, film, the internet, and new media, including traditional and mature formats. The social, political, regulatory, ethical, and occupational impact of electronic media are also studied. (FORMERLY RTVF 100)

Associate Degree Applicable**Transfers to both UC/CSU**

FTVM 102 3 Units**Introduction to Media Aesthetics and Cinematic Arts****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This course introduces the close analysis of film and television and examines the broad questions of form and content, aesthetics and meaning, and history and culture. The course also explores the diverse possibilities presented by the cinematic art form through an examination of a wide variety of productions, national cinemas, and film movements. The topics include modes of production, narrative and non-narrative forms, visual design, editing, sound, genre, ideology and critical analysis. (Formerly RTVF 101)

Associate Degree Applicable**Transfers to both UC/CSU****FTVM 110 3 Units****Announcing and Performing in Electronic Media****Lecture:** 36 contact hours**Lab:** 54 contact hours

This course will give instruction and practice in performing and announcing. Topics include interpretation of copy, news casting, music continuity, interviewing, and the operation of audio equipment while performing. Students will practice commercial material and improvisational announcing. (Formerly RTVF 102)

Associate Degree Applicable**Transfers to CSU only****FTVM 111 3 Units****Introduction to Audio Production****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This course serves as an introduction to the theory and practice of audio production for radio, television, film and digital recording applications. Students will learn the fundamentals of sound design and aesthetics, microphone use, and digital recording equipment. Students gain hands on experience recording, editing, mixing and mastering audio. Upon completion, students will have basic knowledge of applied audio concepts, production workflow, equipment functions, and audio editing software. (Formerly RTVF 120)

Associate Degree Applicable**Transfers to CSU only****FTVM 112 3 Units****Digital Audio Post Production****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This post production course provides specialized training in digital audio work stations and synchronization with the visual image for radio, television, film, and multimedia. Topics include the use of audio post production techniques and the skills necessary to compete in the entertainment, communications and multimedia industries. (Formerly RTVF 121)

Associate Degree Applicable**Transfers to CSU only****FTVM 114 3 Units****Introduction to Digital Video Editing****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This course includes theory and practice in digital video editing techniques including exploring professional video editing programs; basic video and audio editing techniques; use of effects, titles, and graphics; capturing and importing; custom software settings; and exporting to the web, DVD, or other media. (Formerly RTVF 131)

Associate Degree Applicable**Transfers to CSU only****FTVM 120 3 Units****Basic Writing for Broadcasting****Lecture:** 54 contact hours

This course provides instruction and practice in writing and editing for news, commercials, multi-camera and single camera productions, and electronic media. Topics include how to write for speaking, writing objectively, journalism ethics, and legal issues such as libel and right to privacy. (Formerly RTVF 104)

Associate Degree Applicable**Transfers to CSU only****FTVM 121 3 Units****Media Writing****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This is an introductory course in writing for the film and electronic media. The emphasis is on preparing scripts in proper formats, including fundamental technical, conceptual and stylistic issues related to writing fiction and non-fiction scripts for informational and entertainment purposes in film and electronic media. The course also includes a writing evaluation component as a significant part of the course requirement. (Formerly RTVF 106)

Associate Degree Applicable**Transfers to CSU only****FTVM 122 3 Units****Acting and Directing for Television and Film****Lecture:** 36 contact hours**Lab:** 54 contact hours

This course provides instruction and practice in acting and directing for television and film, including voice, poise, and character development. (Formerly RTVF 134)

Associate Degree Applicable**Transfers to both UC/CSU****FTVM 130 3 Units****Survey of TV Studio and Film Production****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This course introduces theory, terminology and operation of a single camera, multi-camera television studio and control room. Topics include studio signal flow, directing, theory and operation of camera and audio equipment, switcher operation, fundamentals of lighting, graphics, video control and video recording and real-time video production. (Formerly RTVF 130)

Associate Degree Applicable**Transfers to CSU only**

FTVM 131 3 Units**Lighting and Cinematography****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This course introduces the theory, terminology, and process of motion picture production for film and television. Topics include basic cinematography including the operation, function and creative uses of production, basic scriptwriting, camera operation, shot composition, lighting, and basic sound recording. (Formerly RTVF 132)

Associate Degree Applicable**Transfers to CSU only****FTVM 132 3 Units****Commercial Video Production****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** FTVM 130 or FTVM 131**Advisory:** ENGL 101 or ENGL 101H

This is an introductory course in the theory, terminology, and operation of commercial video production. The topics include composition, camera operation, portable lighting, video recorder, audio control, and editing. The aesthetics and fundamentals of scripting, producing, and directing for broadcast commercial or video to be used in other multimedia platforms. (Formerly RTVF 133)

Associate Degree Applicable**Transfers to CSU only****FTVM 213 3 Units****Radio Station Operations****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** FTVM 111**Advisory:** FTVM 112

This course offers an emphasis on individual and group production of short and long-form radio projects. Projects include remote broadcasts, promotional spots, features, music programming, and news; as well as project development, management and implementation. All student projects will air on the student radio-station KJRP, with some selected projects also airing on our PBS station, KVCR. (Formerly RTVF 220)

Associate Degree Applicable**Transfers to CSU only****FTVM 215 3 Units****Intermediate Digital Video Editing****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** FTVM 114

This intermediate level course provides students with the skills and technologies to edit both fiction and documentary films as well as other forms of visual media. (Formerly RTVF 232)

Associate Degree Applicable**Transfers to CSU only****FTVM 222 1-3 Units****Independent Study in Film, Television, and Media****DIR:** 54 contact hours

Students with previous course work in FTVM may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of FTVM. Prior to registration, a written contract must be prepared. See instructor for details. (Formerly RTVF 222)

Associate Degree Applicable**Transfers to CSU only****FTVM 233 3 Units****TV Studio Production****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** FTVM 130

This is an in-depth course in techniques of planning, producing, writing, and directing television programs; with an emphasis on polishing technical skills, creativity, and teamwork. Explores advanced video switching techniques, video recording and editing formats, program rundowns, timing, and advanced director's cues. (Formerly RTVF 230)

Associate Degree Applicable**Transfers to CSU only****FTVM 234 3 Units****Intermediate Video Production****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** FTVM 130 or FTVM 131 and FTVM 120 or FTVM 121

In this course students plan, produce, write, shoot, and edit programs that can use either studio production or single camera video production with editing equipment. The course includes hands-on experience using HD and 4K video cameras, location sound, and nonlinear editing equipment. Students will create their own video productions, individually and in teams. (Formerly RTVF 231)

Associate Degree Applicable**Transfers to CSU only****FTVM 235 3 Units****Cinema Production****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** FTVM 130 or FTVM 131 and FTVM 121

This in-depth course covers producing for motion pictures and television. It includes script development, preproduction planning, production concepts, and postproduction editing concepts. (Formerly RTVF 240)

Associate Degree Applicable**Transfers to CSU only**

Foods and Nutrition (FN)

FN 060 3 Units**Modified Diets****Lecture:** 54 contact hours**Prerequisite:** FN 162

This course concentrates on the principles of nutrition in order to provide modified diets for individuals with a variety of health care conditions. The focus is on the rationale for the diet and how the modifications improve a person's overall well being.

Associate Degree Applicable**FN 064 3 Units****Nutrition Management****Lecture:** 54 contact hours

The focus of this course is on the food service and nutrition management in a health care facility. It includes the development of policies, protocols and procedures for organizing, staffing and training, as well as the promotion of sound financial planning and a cost control system.

Associate Degree Applicable

FN 066 2 Units**Nutrition Care****Lecture:** 36 contact hours**Prerequisite:** FN 060

This course integrates the academic content and principles of nutrition, diet and menu development with the application of nutrition care, diet evaluation, diet education and dietetic practice.

Associate Degree Applicable**FN 098 1-4 Units****Food and Nutrition Work Experience****WRKEX:** 300 contact hours

This course involves supervised training, in the form of on-the-job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. Students work 5-20 hours per week to earn units using the following formula: For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable**FN 162 3 Units****Introduction to Food and Nutrition****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This course introduces the scientific concepts of nutrition related to the function of nutrients in the basic life processes. Emphasis is on individual needs, food sources of nutrients, current nutritional issues and diet analysis.

Associate Degree Applicable**Transfers to both UC/CSU**

French (FRENCH)

FRENCH 101 5 Units**College French I****Lecture:** 90 contact hours

In this course students develop the ability to converse, read and write in French. The course includes the study of essentials of pronunciation, vocabulary, idioms and grammatical structures along with an introduction to the culture of French-speaking peoples. This course corresponds to two years of high school study.

Associate Degree Applicable**Transfers to both UC/CSU****FRENCH 102 5 Units****College French II****Lecture:** 90 contact hours**Prerequisite:** FRENCH 101

This course provides students the opportunity to continue to develop conversational, reading and writing skills in French with special emphasis on past tense verbs, grammar, vocabulary expansion and cultural applications of the French language.

Associate Degree Applicable**Transfers to both UC/CSU**

Geographic Information Systems (GIS)

GIS 039 1 Unit**Global Positioning Systems (GPS) Field Techniques****Lab:** 54 contact hours**Advisory:** GIS 135

The Global positioning system (GPS) is a satellite-based navigation system comprised of a network of 24 satellites placed into orbit by the US Department of Defense. The aim of this course is to introduce students to the principles of the GPS and to demonstrate its application to GIS. GPS basic components are covered, including satellites, ground control stations, antennae, and receivers. GIS background or work experience in the field are recommended to succeed in this course.

Associate Degree Applicable**GIS 098 1-4 Units****GIS Work Experience****WRKEX:** 300 contact hours**Prerequisite/Corequisite:** GIS 135

This course involves supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable**GIS 100 3 Units****Map Interpretation and Geospatial Analysis****Lecture:** 36 contact hours**Lab:** 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This class is an introduction to maps, images and geospatial techniques and technologies. The technologies covered in this course include map and aerial photograph interpretation, tabular data, spatial statistics, cartography, Global Positioning Systems (GPS), Internet mapping, remote sensing and Geographic Information Systems (GIS), all of which aid in data collection, analysis and presentation. This course is also offered as GEOG 100.

Associate Degree Applicable**Transfers to CSU only****C-ID:** GEOG 150**GIS 130 3 Units****Introduction to Geographic Information Systems (GIS)****Lecture:** 36 contact hours**Lab:** 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process and MATH 942.

This course provides an introduction to the fundamentals of Geographic Information Systems (GIS), including the history of automated mapping. The course includes a brief introduction to basic cartographic principles, including map scales, coordinate systems and map projections. GIS hardware and software are explored, as are various applications of GIS technology used in environmental science, business and government. (This course is also offered as GEOG 130).

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** GEOG 155

GIS 133 3 Units**GIS Cartography and Base Map Development****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** GIS 130 or GEOG 130

This course introduces the nature of cartography, standard cartographic conventions, and graphic symbology. Map projections, scale, types of thematic maps, and map accuracy are reviewed. Current industry standard techniques used in GIS base map development are employed, including production and presentation techniques of professional quality maps.

Associate Degree Applicable**Transfers to both UC/CSU****GIS 134 3 Units****Data Acquisition and Management****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** GIS 130

This course addresses the interpretation and understanding of a variety of data formats available in GIS. It introduces the fundamental concepts of primary GIS data creation and discusses quantitative techniques for collection, classification, and management of geographical data.

Associate Degree Applicable**Transfers to CSU only****GIS 135 3 Units****Spatial Analysis with GIS****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** GIS 130

This course is an introduction to spatial analysis with fundamental concepts and analytical procedures used to simplify complex spatial modeling. Specific methods covered include spatial queries, buffering, overlay, interpolation, network analysis, surface analysis, and spatial autocorrelation.

Associate Degree Applicable**Transfers to CSU only****GIS 136 3 Units****GIS for Science, Government, and Business****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** GIS 135

This course introduces students to the various GIS techniques deployed to help government, businesses, and consulting firms to operate in a constantly changing social, physical, economic, and political environment. Government agencies and businesses today face challenges that force them to think beyond traditional, non-geographic approaches to problem solving. Students are introduced to data integration, maps, and GIS outputs.

Associate Degree Applicable**Transfers to CSU only****GIS 137 3 Units****GIS Advanced Applications****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** GIS 135

This course provides hands-on training in advanced applications of GIS using ArcView and ArcInfo, and a review of Visual Basic for Applications (VBA) for customizing ArcGIS. It includes introduction to ArcGIS Server, ArcIMS, and building maps and models for publishing to the web. Students will learn to build web applications with GIS capabilities using Application Service Provider (ASP).

Associate Degree Applicable**Transfers to CSU only****GIS 222 1-3 Units****Independent Study in Geographic Information Systems****DIR:** 54 contact hours**Prerequisite:** GIS 130 or GIS 131

Students with previous course work in GIS may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of GIS. Prior to registration, a written contract must be prepared jointly by the instructor and the student.

Associate Degree Applicable**Transfers to CSU only**

Geography (GEOG)

GEOG 100 3 Units**Map Interpretation and Geospatial Analysis****Lecture:** 36 contact hours**Lab:** 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This class is an introduction to maps, images and geospatial techniques and technologies. The technologies covered in this course include map and aerial photograph interpretation, tabular data, spatial statistics, cartography, Global Positioning Systems (GPS), Internet mapping, remote sensing and Geographic Information Systems (GIS), all of which aid in data collection, analysis and presentation. (This course is also offered as GIS 100).

Associate Degree Applicable**Transfers to CSU only****C-ID:** GEOG 150**GEOG 102 3 Units****Cultural Geography****Lecture:** 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process and MATH 952 or MATH 962 or eligibility for MATH 090 as determined by the SBVC assessment process.

This course provides an introduction to the interrelationship between people and the environment. It includes population trends, regional analyses, and livelihood patterns. There is an emphasis on historical development, diffusion of agriculture, languages, religions, and urban development.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** GEOG 120

GEOG 106 3 Units**Geographic Perspectives on the Environment****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process and MATH 952 or MATH 962 or eligibility for MATH 090 as determined by the SBVC assessment process.

This course provides an introductory study of the latest geographic perspectives of critical environmental issues occurring within and across local, regional, national, and global scales. It creates an awareness of the geography of human-environment relationships, in particular how nature and natural resources are defined, contested, distributed, and consumed. Emphasis is on social, political, cultural, psychological, and economic evaluation of natural resources and associated resource management.

Associate Degree Applicable**Transfers to both UC/CSU****GEOG 110 3 Units****Physical Geography****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process. MATH 952 or MATH 962 or eligibility for MATH 090 as determined by the SBVC assessment process.

Within a human-environment framework, students will review basic physical elements of geography, with emphasis on weather, climate, water, soil, landforms, native animal life and natural vegetation, and their interrelationships and patterns of distribution on a worldwide basis. GEOG 111/GEOG 111H is strongly recommended for students who desire to transfer to CSU/UC. It is recommended that students complete GEOG 111/GEOG 111H within three years of completing GEOG 110.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** GEOG 110**GEOG 111 1 Unit****Physical Geography Laboratory****Lab:** 54 contact hours**Prerequisite/Corequisite:** GEOG 110

This is the laboratory companion for the GEOG 110 physical geography lecture course. This course is recommended for students concurrently enrolled in GEOG 110 or who have successfully completed the course within last three years. Students will apply lecture principles to in-class, hands-on, and field exercises. Students should be prepared to participate in one or more off-campus field exercises.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** GEOG 111**GEOG 111H 1 Unit****Physical Geography Laboratory - Honors****Lab:** 54 contact hours**Prerequisite/Corequisite:** GEOG 110

This is the laboratory companion for the GEOG 110 physical geography lecture course. This course is recommended for students concurrently enrolled in GEOG 110 or who have successfully completed the course within last three years. Students will apply lecture principles to in-class, hands-on, and field exercises. Students should be prepared to participate in one or more off-campus field exercises. This course is intended for students in the Honors Program but is open to all students who desire more challenging coursework.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** GEOG 111**GEOG 114 4 Units****Weather and Climate****Lecture:** 54 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process and MATH 952 or MATH 962 or eligibility for MATH 090 as determined by the SBVC assessment process.

This course covers Earth's atmospheric phenomena, with special reference to causes and regional distribution of weather and climate, both past and present. Topics include atmospheric structure and composition, solar radiation and energy balances, temperature, seasonal changes, atmospheric moisture, clouds and fog, precipitation, air pressure, winds, air masses and fronts, cyclones, weather forecasting, climate, and climate change. Emphasis will be given to current environmental topics, including natural and anthropogenic global climate change, air pollution, and global dimming.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** GEOG 130**GEOG 118 3 Units****California Geography****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process. MATH 952 or MATH 962 or eligibility for MATH 090 as determined by the SBVC assessment process.

This course provides a thematic approach to the state's issues, processes and topics relevant to geography including climate, landforms, natural vegetation, water resources, cultural landscape, ethnic diversity, urban and agricultural regions, and the economy. This course explores the physical and human landscapes that have evolved as a result of the human-environment interface.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** GEOG 140**GEOG 120 3 Units****World Regional Geography****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process. MATH 952 or MATH 962 or eligibility for MATH 090 as determined by the SBVC assessment process.

This course provides an introduction to world regional geography, emphasizing the nature of major cultural regions of the world. Through a comprehensive regional analysis, students will learn social structures, religions, languages, political systems, economics, environmental relationships, transportation networks, population dynamics, and urban development across the globe.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** GEOG 125

GEOG 130 3 Units**Introduction to Geographic Information Systems (GIS)****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process and MATH 942.

This course provides an introduction to the fundamentals of Geographic Information Systems (GIS), including the history of automated mapping. The course includes a brief introduction to basic cartographic principles, including map scales, coordinate systems and map projections. GIS hardware and software are explored, as are various applications of GIS technology used in environmental science, business and government. (This course is also offered as GIS 130)

Associate Degree Applicable**Transfers to both UC/CSU****GEOG 222 1-3 Units****Independent Study in Geography****DIR:** 54 contact hours

Students with previous course work in Geography may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of Geography. Prior to registration, a written contract must be prepared jointly by the instructor and the student.

Associate Degree Applicable**Transfers to CSU only**

Geology (GEOL)

GEOL 101 3 Units**Introduction to Physical Geology****Lecture:** 54 contact hours**Prerequisite:** ENGL 914 or eligibility for ENGL 015 as determined through the SBVC assessment process and MATH 942 or eligibility for MATH 952 as determined by the SBVC assessment process.**Advisory:** GEOL 111

This course is an introduction to the study of the Earth, with emphasis on the materials that make up the Earth. It emphasizes Plate Tectonics, the processes that created the continents and the ocean basins, and the processes that change the landscape.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** GEOL 100**GEOL 111 1 Unit****Introduction to Physical Geology Laboratory****Lab:** 54 contact hours**Prerequisite/Corequisite:** GEOL 101

This course is a hands-on introduction to the study of the Earth, with an emphasis on the materials that make up the Earth. Students will participate in one or more field trips. This course is recommended for students concurrently enrolled in GEOL 101 or who have successfully completed GEOL 101 within the last two years.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** GEOL 100L**GEOL 112 4 Units****Historical Geology****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC process and MATH 952 or MATH 962 or eligibility for MATH 090 as determined by the SBVC assessment process.**Advisory:** GEOL 101 and GEOL 111

This course reviews the geologic history of the Earth. Specific topics include the planet's origin and chronological processes that produce major continental and oceanic features, plate tectonics, stratigraphy, interpretation of Earth history from rock and fossil records, and the evolutionary development of plant and animal life. Students should anticipate participating in one or more field trips.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** GEOL 111**GEOL 122 3 Units****Environmental Geology****Lecture:** 54 contact hours**Prerequisite:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC process. MATH 952 or MATH 962 or eligibility for MATH 090 as determined by the SBVC assessment process. |**Advisory:** GEOL 101 or GEOG 110

This course introduces the relationships among geologic processes, natural resources, and the needs of society. Topics include natural hazards such as earthquakes, landslides, and mudflows; mineral and energy resources; and the particular problems associated with urbanization, resource use, and pollution. Students should anticipate participating in one or more field trips.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** GEOL 130**GEOL 170 1 Unit****Geologic History of the Great Basin Province****Lecture:** 9 contact hours**Lab:** 27 contact hours**Prerequisite:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process and MATH 952 or MATH 962 or eligibility for MATH 090 as determined by the SBVC assessment process.**Advisory:** GEOL 101 or GEOG 110 and GEOL 112

Students will discuss and observe the physical and historical geology of the Great Basin Province of the United States, with special emphasis on the geology of Death Valley National Park. Coursework will involve a series of lectures leading to a three to four-day field trip through the Great Basin in and around Death Valley. Students must attend the field trip for the successful completion of the course. The field trips will emphasize the geological features and anthropological history of the Great Basin Province.

Associate Degree Applicable**Transfers to CSU only**

GEOL 201 4 Units**Mineralogy****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** GEOL 101 and GEOL 111 and CHEM 101 or CHEM 150 or CHEM 150H.

This course emphasizes the classification and origin of minerals through chemical and physical tests, as well as spectroscopic, optical, and x-ray diffraction analyses. There is an ancillary study of crystal structures with models, natural crystals, and stereographic projections. Students should anticipate participating in one or more field trips.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** GEOL 280**GEOL 222 1-3 Units****Independent Study in Geology****DIR:** 54 contact hours**Prerequisite:** GEOL 101

Students with previous course work in Geology may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of Geology. Prior to registration, a written contract must be prepared jointly by the instructor and the student.

Associate Degree Applicable**Transfers to CSU only****GEOL 250 3 Units****Geology of California****Lecture:** 54 contact hours**Prerequisite:** ENGL 015 and or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC process. MATH 952 or MATH 962 or eligibility for MATH 090 as determined by the SBVC assessment process.**Advisory:** GEOL 101 or GEOG 110

This course introduces students to the physical and historical geology of California, emphasizing the distinctive geologic features of each of California's twelve geomorphic provinces. Students should anticipate participating in one or more field trips.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** GEOL 200**GEOL 251 3 Units****Geology of the National Parks and Monuments****Lecture:** 54 contact hours**Prerequisite:** ENGL 015 and or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC process; MATH 952 or MATH 962 or eligibility for MATH 090 as determined by the SBVC assessment process.**Advisory:** GEOL 101 or GEOG 110 and GEOL 111 or GEOG 111

This course comprises a study of the geology of selected national parks, monuments, seashores, recreational areas, and other public sites of geologic interest within the United States and its territories. There is an emphasis on the geologic processes that formed these notable sites. Students should anticipate participating in one or more field trips.

Associate Degree Applicable**Transfers to both UC/CSU****GEOL 260 3 Units****Introduction to Field Geology****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** GEOL 101 or GEOL 112 or GEOL 201**Advisory:** GIS 130

This course emphasizes demonstration, discussion, and practice of field investigations of geologic environments. Activities include describing, mapping, and identifying geologic phenomena using the Brunton compass, GPS units, and topographic maps. As this is a hands-on course, students will spend time in the field.

Associate Degree Applicable**Transfers to both UC/CSU****GEOL 270 1 Unit****Geology of the Eastern Sierra Nevada****Lecture:** 9 contact hours**Lab:** 27 contact hours**Prerequisite:** ENGL 015 and or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC process. MATH 952 or MATH 962 or eligibility for MATH 090 as determined by the SBVC assessment process.**Advisory:** GEOL 101 or GEOG 110 or GEOL 112

This course provides a lecture discussion and field observation of the physical and historical geology of the Eastern Sierra Nevada Province. It includes a three to four-day field trip along the boundary between the Sierra Nevada and Basin and Range Provinces. A three to four-day field trip demonstrates volcanic, glacial, and other geologic or economic processes. This field trip is required for the successful completion of the course.

Associate Degree Applicable**Transfers to CSU only**

Health Education (HEALTH)

HEALTH 101 3 Units**Health Education****Lecture:** 54 contact hours

This course is an exploration of health topics and their impact on an individual's health status. Awareness and assessment of current lifestyle behaviors and choices, identification of risk factors, and implementation of prevention strategies are emphasized.

Associate Degree Applicable**Transfers to both UC/CSU****HEALTH 103 3 Units****Introduction to Holistic Health****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H

This course is an introduction to health and healing practices involving the integration of physical, mental, spiritual, and social resources. Students explore ancient disciplines of Ayurveda, Yoga, and Chinese Medicine, as well as modern Western health systems like Biofeedback, Swedish Massage, Reiki, Meditation, Guided Imagery, Herbalism, Humor and Music Therapy. Emphasis is placed on health promotion and prevention of disease, and how we become self-advocates in promoting our own well-being with the assistance of health care professionals.

Associate Degree Applicable**Transfers to both UC/CSU**

Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R)

HVAC/R 001 4 Units

HVAC/R Fundamentals

Lecture: 54 contact hours

Lab: 54 contact hours

This course covers basic principles of refrigeration, refrigerants, refrigeration components and tools; repair and testing of refrigeration units; and basic brazing and soldering.

Associate Degree Applicable

HVAC/R 002 4 Units

Domestic Mechanical Refrigeration

Lecture: 54 contact hours

Lab: 54 contact hours

Prerequisite: HVAC/R 001

This course covers principles of refrigeration compression systems, operations and controls, refrigeration and freezer construction, piping and parts layout. Included in the lab work is troubleshooting and servicing domestic refrigeration units.

Associate Degree Applicable

HVAC/R 003 4 Units

Commercial Mechanical Refrigeration

Lecture: 54 contact hours

Lab: 54 contact hours

Prerequisite: HVAC/R 001

This course covers theory of compressor construction and operation, principles of all types of refrigerant controls and multi-stage control devices pertaining to commercial and industrial refrigeration including practical lab work.

Associate Degree Applicable

HVAC/R 004 4 Units

Electrical Fundamentals for HVAC/R

Lecture: 54 contact hours

Lab: 54 contact hours

This course covers fundamentals of direct and alternating current circuits, test equipment, most common electric motors, wiring and control devices used in modern refrigeration equipment including practical lab work with electrical refrigeration trainers and projects.

Associate Degree Applicable

HVAC/R 005 4 Units

Commercial Electric for HVAC/R

Lecture: 54 contact hours

Lab: 54 contact hours

Prerequisite: HVAC/R 004

This course covers solid state control systems with emphasis on schematic reading and electrical troubleshooting pertaining to refrigeration equipment including practical lab work with electrical refrigeration trainers and projects.

Associate Degree Applicable

HVAC/R 006 4 Units

HVAC/R Air Distribution Systems

Lecture: 54 contact hours

Lab: 54 contact hours

Prerequisite: HVAC/R 001

This course covers theory of multiple-stage systems and multiple-control devices with emphasis on condensing and evaporation equipment, heavy duty piping layout, forced-air heating, ventilation, and air conditioning including lab work with refrigeration trainers and projects.

Associate Degree Applicable

HVAC/R 007 3 Units

Welding for HVAC/R

Lecture: 18 contact hours

Lab: 108 contact hours

This course covers intensive training in soldering, brazing and welding techniques on copper tubing, steel and dissimilar metals using oxyacetylene and special gas torches as practiced in the refrigeration, HVAC industry including blueprint reading and fabrication.

Associate Degree Applicable

HVAC/R 050C 3 Units

Compressors, Condensers and Cooling Towers

Lecture: 54 contact hours

This course provides comprehensive instruction on three major components of refrigeration and air conditioning systems, compressors, condensers, and cooling towers. Students gain knowledge of reciprocating, rotary, screw, centrifugal, and scroll compressors, as well as classifications of compressors (open, semi-hermetic, and hermetic). Air condensers, water-cooled condensers, evaporative condensers and cooling towers, and water treatment are also covered.

Associate Degree Applicable

HVAC/R 051C 3 Units

Heating Fundamentals

Lecture: 54 contact hours

This is one of three courses of a three-semester national training course offered by the Refrigeration Service Engineers Society (RSES) and the North American Technician Excellence (NATE) and is a comprehensive study of compressors, condensers, and accessories. This course is designed to help certify journeymen-level refrigeration technicians and keep their knowledge current.

Associate Degree Applicable

HVAC/R 052C 3 Units

Heating Transfer & Distribution

Lecture: 54 contact hours

This course introduces the basic principles of heat transfer, radiation, conduction, and convection are explained in detail, along with estimating heat loads for residential structures and the principles of air distribution. Included are lessons related to fans and blowers and instruction on fan laws, fan classifications, centrifugal fans, and fan efficiency.

Associate Degree Applicable

HVAC/R 055C 3 Units

Gas Heating

Lecture: 54 contact hours

This course explores the concepts of heating with gas. Included in the course are lessons related to combustion chemistry, heating fuels, burners and accessories, burners and components (including natural gas-burning and LP gas-equipment), start-up and combustion efficiency testing, gas burner controls, ignition systems for infrared heaters, gas heating equipment maintenance, troubleshooting, and condensing furnaces.

Associate Degree Applicable

HVAC/R 056C 3 Units**Hot Water Heating****Lecture:** 54 contact hours

This course offers instruction in the principles and theories of hot water heating. Students will learn about hot water boilers and controls, heat transfer units, centrifugal pumps, air controls, hot water specialties, piping methods, pressure drop calculations, zoning, primary/secondary pumping, radiant heating systems, temperature controls, troubleshooting system components, and analysis of system problems.

Associate Degree Applicable**HVAC/R 057C 3 Units****Tools, Controls, and Troubleshooting****Lecture:** 54 contact hours**Advisory:** ENGL 914

This course is one of a three-semester national training course offered by the Refrigeration Service Engineers Society (RSES) and the North American Technician Excellence (NATE). It is a comprehensive study of the tools of the trade and control diagnostics with testing instruments. This course is designed to help students seeking journeymen-level certification as refrigeration technicians and keep abreast of current technology.

Associate Degree Applicable**HVAC/R 060C 3 Units****Troubleshooting Refrigeration and A/C Electricity 4****Lecture:** 54 contact hours**Advisory:** ENGL 914

This is a one-semester course that includes the first of a three-term course offered by the Refrigeration Service Engineers Society (RSES) and is a comprehensive study of troubleshooting HVAC/R electrical circuits. This course is designed to help certify journeymen-level refrigeration technicians and keep their knowledge current.

Associate Degree Applicable**HVAC/R 061C 3 Units****Troubleshooting Refrigeration and A/C Electricity 5****Lecture:** 54 contact hours**Advisory:** ENGL 914

This is a one-semester course that includes the second of a three-term course offered by the Refrigeration Service Engineers Society (RSES) and is a comprehensive study of troubleshooting HVAC/R electrical circuits. This course is designed to help certify journeymen-level refrigeration technicians and keep their knowledge current.

Associate Degree Applicable**HVAC/R 062C 4 Units****RSES Electricity and Electricity Lab for HVAC/R Technicians****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** HVAC/R 060C and HVAC/R 061C**Advisory:** ENGL 914

This is a one semester course offered by the Refrigeration Service Engineers Society that includes a Hands on Lab with emphasis on electrical safety, the fundamentals of electricity, series and parallel circuits, A/C current, magnetism and transformers, relays, contactors, starters, motors and capacitors, compressors, circuit protection devices, and thermostats. Also included are lessons on reading schematics, and troubleshooting gas furnaces and split-systems. This course is designed to help certify journeymen-level refrigeration technicians and keep their knowledge current.

Associate Degree Applicable**HVAC/R 065C 3 Units****RSES Technical Institute Heat Pump Training Course Volume I****Lecture:** 54 contact hours**Advisory:** ENGL 914

This is a one-semester course that includes the first of two heat pump classes offered by the Refrigeration Service Engineers Society and is a comprehensive introduction to heat pump theory, fundamentals, and includes water-source heat pumps. Students will also study heat pump compressors, flow controls and accessories; heat pump electrical systems and components, thermostats; air-to-air heat pump defrost; supplemental electric heat; fossil fuel backup heat and heat pump piping. Additional subjects include heat pump performance criteria; checks; and procedures. This course is designed to help certify journeymen-level refrigeration technicians and keep their knowledge current.

Associate Degree Applicable**HVAC/R 066C 3 Units****RSES Technical Institute Heat Pump Training Course Volume II****Lecture:** 54 contact hours**Advisory:** ENGL 914

This is a one-semester course that includes the second of two heat pump classes offered by the Refrigeration Service Engineers Society, and is an advanced class for heat pump troubleshooting, and includes water-source heat pumps, and water source heat pumps for special applications. Students will study both standard and high-efficiency air-to-air heat pump electrical and refrigerant-side troubleshooting, (both heating, and cooling). Students will also do heat pump load calculations, indoor air distribution, duct design with emphasis on diagnosing airflow problems. Customer relations will also be addressed. This course is designed to help certify journeymen-level refrigeration technicians, and keep their knowledge current.

Associate Degree Applicable**HVAC/R 067C 3 Units****RSES Technical Institute Training Manual 3 Volume I****Lecture:** 54 contact hours**Advisory:** ENGL 914

This is the first term class of the two-term Training Manual 3 classes offered by the Refrigeration Service Engineers Society and is a comprehensive introduction to heat pump theory, including water-source heat pumps. Students will also study fans and blowers, economizers, computer room environmental controls, air filtration and distribution, cooling towers, and water treatment. Additional subjects include evaporative condensers, heat transfer coils, and closed-circuit water coolers. These courses are designed to help certify journeymen-level refrigeration technicians and keep their knowledge current.

Associate Degree Applicable**HVAC/R 068C 3 Units****RSES Technical Institute Training Manual 3 Volume II****Lecture:** 54 contact hours**Advisory:** ENGL 914

This is the second term class of the two-term Training Manual 3 classes offered by the Refrigeration Service Engineers Society and is a comprehensive introduction to heat pump theory, including water-source heat pumps. Students will also study fans and blowers, economizers, computer room environmental controls, air filtration and distribution, cooling towers, and water treatment. Additional subjects include, evaporative condensers, heat transfer coils, and closed-circuit water coolers. These courses are designed to help certify journeymen-level refrigeration technicians and keep their knowledge current.

Associate Degree Applicable

HVAC/R 098 1-4 Units**Refrigeration Work Experience****WRKEX:** 300 contact hours

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable**HVAC/R 601 Noncredit****HVAC/R Fundamentals****Lecture:** 54 contact hours**Lab:** 54 contact hours

This noncredit course covers basic principles of refrigeration, refrigerants, refrigeration components and tools; repair and testing of refrigeration units; and basic brazing and soldering.

Heavy/Medium Duty Truck (HMDT)

HMDT 021 4 Units**Heavy-Duty Truck Engines****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course covers theory and practical shop work in the repair, operation, and maintenance of heavy-duty industrial truck engines and fuel injection systems including general troubleshooting and diagnostic testing. This course may be used in preparation for the Automotive Service Excellence (ASE) National Test. (Formerly DIESEL 021)

Associate Degree Applicable**HMDT 022 4 Units****Heavy-Duty Truck Brakes****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course covers theory and practical shop work in the construction, operation, and repair of heavy-duty truck brake systems and components including principles of hydraulic and pneumatic brake systems, anti-lock, and computer controlled braking systems used in today's modern heavy-duty trucks and busses. (Formerly DIESEL 022)

Associate Degree Applicable**HMDT 023 4 Units****Heavy-Duty Truck Suspension and Steering****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course covers theory and practical shop work in the construction, operation, and repair of heavy-duty truck suspension and steering components including principles of hydraulic and pneumatic steering and suspension systems. (Formerly DIESEL 023)

Associate Degree Applicable**HMDT 024 4 Units****Advanced Heavy-Duty Truck Engines****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** HMDT 021

This course is an advanced engine rebuilds class that covers theory and practical shop work in the repair, operation, and maintenance of various heavy-duty truck engines. Topics include general troubleshooting and diagnostic testing of engine components and systems found in most engines from a variety of engine manufacturers. This course may be used in preparation for the Automotive Service Excellence (ASE) National Test. (Formerly DIESEL 024)

Associate Degree Applicable**HMDT 026 4 Units****Computer Controlled Truck Engines****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** HMDT 064 or AUTO 064

This course covers theory and practical shop work in the repair, operation, and maintenance of computer controlled truck engines. Topics include general troubleshooting and diagnostics using assorted electronic and computerized test equipment on operable computer controlled diesel engines. (Formerly DIESEL 026)

Associate Degree Applicable**HMDT 028 4 Units****Heavy-Duty Truck Systems****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** HMDT 064 or AUTO 064

This course covers theory and practical shop work in maintenance, air conditioning, Antilock Brake System (ABS), computers, and operations of the heavy-duty truck and bus systems. Course is designed to provide students the needed skills and knowledge to perform advanced level labor tasks in the heavy-duty truck and bus service industry. (Formerly DIESEL 028)

Associate Degree Applicable**HMDT 034 4 Units****Diesel Alternative Fuels****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course provides theory and hands-on experience in the operation, service, inspection, and maintenance of compressed natural gas (CNG) vehicle systems. This course prepares students for the ASE Alternate Fuels Test (F-1). (Formerly DIESEL 034)

Associate Degree Applicable**HMDT 035 2 Units****Heavy-Duty Vehicle Automatic Transmissions****Lecture:** 27 contact hours**Lab:** 27 contact hours

This course provides theory and hands-on experience with heavy- and medium-duty automatic transmission operation, construction, service and overhaul procedures. (Formerly DIESEL 035)

Associate Degree Applicable**HMDT 042 2 Units****Zero Emission Heavy Duty Truck****Lecture:** 18 contact hours**Lab:** 54 contact hours

The Zero Emission Heavy-Duty Truck course is to provide students with training in servicing and maintaining electric vehicles.

Associate Degree Applicable

HMDT 064 4 Units**Auto/Truck Electrical Systems****Lecture:** 54 contact hours**Lab:** 54 contact hours

This course covers basic electrical theory, use of meters, test equipment, wiring diagrams, diagnosis and repair/replacement of major electrical components of automobiles and trucks. Emphasis is placed on diagnosis of starting systems, charging systems, and electrical circuits such as lights and batteries. (Formerly DIESEL 064)

Associate Degree Applicable**HMDT 098 1-4 Units****Heavy/Medium Duty Truck Work Experience****WRKEX:** 300 contact hours

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines. (Formerly DIESEL 098)

Associate Degree Applicable**HMDT 621 Noncredit****Heavy-Duty Truck Engines****Lecture:** 54 contact hours**Lab:** 54 contact hours

This noncredit course covers theory and practical shop work in the repair, operation, and maintenance of heavy-duty industrial truck engines and fuel injection systems including general troubleshooting and diagnostic testing. This course may be used in preparation for the Automotive Service Excellence (ASE) National Test. (Formerly DIESEL 621)

HMDT 622 Noncredit**Heavy-Duty Truck Brakes****Lecture:** 54 contact hours**Lab:** 54 contact hours

This noncredit course covers theory and practical shop work in the construction, operation, and repair of heavy-duty truck brake systems and components including principles of hydraulic and pneumatic brake systems, anti-lock, and computer controlled braking systems used in today's modern heavy-duty diesel trucks and busses. (Formerly DIESEL 622)

HMDT 623 Noncredit**Heavy-Duty Truck Suspension and Steering****Lecture:** 54 contact hours**Lab:** 54 contact hours

This noncredit course covers theory and practical shop work in the construction, operation, and repair of heavy-duty truck suspension and steering components including principles of hydraulic and pneumatic steering and suspension systems. (Formerly DIESEL 623)

HMDT 624 Noncredit**Advanced Heavy-Duty Truck Engines****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** HMDT 621

This noncredit course is an advanced engine rebuilds class that covers theory and practical shop work in the repair, operation, and maintenance of various heavy-duty truck engines. Topics include general troubleshooting and diagnostic testing of engine components and systems found in most engines from a variety of engine manufacturers. This course may be used in preparation for the Automotive Service Excellence (ASE) National Test. (Formerly DIESEL 624)

HMDT 626 Noncredit**Computer Controlled Truck Engines****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** HMDT 664

This noncredit course covers theory and practical shop work in the repair, operation, and maintenance of computer controlled truck engines. Topics include general troubleshooting and diagnostics using assorted electronic and computerized test equipment on operable computer controlled diesel engines. (Formerly DIESEL 626)

HMDT 628 Noncredit**Heavy-Duty Truck Systems****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** HMDT 664

This noncredit course covers theory and practical shop work in maintenance, air conditioning, Antilock Brake System (ABS), computers, and operations of the heavy-duty truck and bus systems. Course is designed to provide students the needed skills and knowledge to perform advanced level labor tasks in the heavy-duty truck and bus service industry. (Formerly DIESEL 628)

HMDT 634 Noncredit**Heavy/Medium Duty Truck Alternative Fuels****Lecture:** 54 contact hours**Lab:** 54 contact hours

This noncredit course provides theory and hands-on experience in the operation, service, inspection, and maintenance of compressed natural gas (CNG) vehicle systems. This course prepares students for the ASE Alternate Fuels Test (F-1). (Formerly DIESEL 634)

HMDT 635 Noncredit**Heavy-Duty Vehicle Automatic Transmissions****Lecture:** 27 contact hours**Lab:** 27 contact hours

This noncredit course provides theory and hands-on experience with heavy - and medium - duty automatic transmission operation, construction, service and overhaul procedures. (Formerly DIESEL 635)

HMDT 638 Noncredit**Heavy-Duty Diesel Emissions****Lecture:** 9 contact hours**Lab:** 27 contact hours

This is an advanced noncredit course in heavy-duty diesel emissions with emphasis on exhaust after treatment and related equipment.

HMDT 664 Noncredit**Auto/Truck Electrical Systems****Lecture:** 54 contact hours**Lab:** 54 contact hours

This noncredit course covers basic electrical theory, use of meters, test equipment, wiring diagrams, diagnosis and repair/replacement of major electrical components of automobiles and trucks. Emphasis is placed on diagnosis of starting systems, charging systems, and electrical circuits such as lights and batteries. (Formerly DIESEL 664)

History (HIST)

HIST 100 3 Units

United States History to 1877

Lecture: 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course provides a general survey of United States history with an emphasis on political, economic, social, and cultural developments from the pre-Colonial period through the Civil War and Reconstruction period.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: HIST 130

HIST 100H 3 Units

United States History to 1877 - Honors

Lecture: 54 contact hours

Prerequisite: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course provides a general survey of United States history, including the use of selected primary texts, with an emphasis on political, economic, social, and cultural developments from the pre-Colonial period through the Civil War and Reconstruction period. This course is intended for students in the Honors Program but is open to all students who desire more challenging work.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: HIST 130

HIST 101 3 Units

United States History: 1865 to Present

Lecture: 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course covers a general survey of United States history with an emphasis on social, political, cultural and economic developments from the Reconstruction period to present times.

Associate Degree Applicable

Transfers to both UC/CSU

HIST 101H 3 Units

United States History: 1865 to Present - Honors

Lecture: 54 contact hours

Prerequisite: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course covers a general survey of United States history, including the use of selected primary texts, with an emphasis on social, political, cultural and economic developments from the Reconstruction period to present times. This course is intended for students in the Honors Program but is open to all students who desire more challenging work.

Associate Degree Applicable

Transfers to both UC/CSU

HIST 107 3 Units

The United States and the North American Indians

Lecture: 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is a history of Native Americans in the region of the current day United States from the time preceding European colonialism to the present.

Associate Degree Applicable

Transfers to both UC/CSU

HIST 137 3 Units

Racial and Ethnic Groups in United States History

Lecture: 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is an introduction to United States history focusing on the experiences of racial and ethnic groups that spans from the early colonial period to present times. This course presents a comparative approach to understanding various racial and ethnic groups and their experiences through major social, political, economic, and cultural events in United States history.

Associate Degree Applicable

Transfers to both UC/CSU

HIST 138 3 Units

African-American History to 1877

Lecture: 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

As a general survey of African-American history to 1877, this course will analyze and detail the creation and development of African-American culture. This course examines key historical events and movements, such as the Atlantic slave trade, colonial and antebellum slavery, slave resistance, and the role of Free Blacks.

Associate Degree Applicable

Transfers to both UC/CSU

HIST 139 3 Units

African-American History 1877 to Present

Lecture: 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course will emphasize the various social, political, and economic forces that have shaped the lives of African Americans from Reconstruction to the current time period. Topics include the post Reconstruction South, the Great Migration, the Harlem Renaissance, the Civil Rights Movement, the conservative backlash, and the trials and triumphs of the 21st century.

Associate Degree Applicable

Transfers to both UC/CSU

HIST 140 3 Units

Chicano History

Lecture: 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course provides a survey of United States history from the Chicano perspective, with an emphasis on the 1840s to the 21st century.

Associate Degree Applicable

Transfers to both UC/CSU

HIST 145 3 Units

History of California

Lecture: 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course surveys the rich heritage of California from its earliest inhabitants and Spanish/Mexican settlements to the present. An emphasis will be placed on the impact of the ethnic and cultural diversity of California along with the importance of geography and immigration. Other topics will include political, economic, and social development of the region from the early 19th century to the present.

Associate Degree Applicable

Transfers to both UC/CSU

HIST 150 3 Units**Introduction to Latin American History****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course studies the historical heritage of Latin America from its Indian, European and African origins to present. Course material is presented in chronological order with themes ranging from social, political, and cultural developments, to poverty, international conflicts, and race relations.

Associate Degree Applicable**Transfers to both UC/CSU****HIST 170 3 Units****World History to 1500****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course covers the development of human societies from their origins to 1500. Particular emphasis placed on a comparative approach between the world's major civilizations, including an examination of social structure and daily life, evolution of complex political systems, cultural values and economic developments.

Associate Degree Applicable**Transfers to both UC/CSU****HIST 171 3 Units****World History Since 1500****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is a survey of world history from 1500 to present. There is a comparative approach to the study of specific themes including political, social, and economic change, as well as religious and cultural development.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** HIST 160**HIST 176 3 Units****Comparative History of Genocide and War Crimes****Lecture:** 54 contact hours**Prerequisite:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course teaches the comparative history of genocide and war crimes during the 20th and 21st centuries. Students will study the phenomenon in a cross-cultural framework and will learn about the various socio-cultural and political organizations that have combatted genocide and rendered it a criminal act under international law.

Associate Degree Applicable**Transfers to both UC/CSU**

Human Services (HUMSV)

HUMSV 130 3 Units**Introduction to Addiction Studies****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H as determined by the SBVC assessment process and READ 100.

This course provides an exploration of the psychological, sociological, and physical causes and effects of substance use disorder. Also included, are overviews of the biopsychosocial nature of addiction; the impact of addiction on children, families and society; contemporary treatment and prevention approaches; and the addiction counseling profession. (FORMERLY HUMSV 181)

Associate Degree Applicable**Transfers to CSU only****HUMSV 131 3 Units****Co-Occur Disorders****Lecture:** 54 contact hours**Advisory:** READ 100 and ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course reviews the major concepts, definitions, and features of co-occurring mental health disorders associated with addiction. Skills in recognizing co-occurring disorders, referral and case management of clients, and appropriate scope of practice are emphasized. Common types of mental health issues associated with addiction, including mood, anxiety, and adjustment disorders, post-traumatic stress disorder, and unresolved issues of childhood abuse, are covered as well as an overview of appropriate treatment and management approaches. (Formerly HUMSV 281B)

Associate Degree Applicable**Transfers to CSU only****HUMSV 132 3 Units****Diverse Populations****Lecture:** 54 contact hours**Advisory:** READ 100 and ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course explores the cultural impact of race, nationality, gender, sexual orientation, age, socio-economic status, and religion on substance use and access to treatment. The course will provide exposure to the fundamentals of cross-cultural counseling of individuals and families with substance use disorders, and common cultural barriers to traditional dependency counseling are examined.

Associate Degree Applicable**Transfers to CSU only****HUMSV 133 3 Units****Pharmacology****Lecture:** 54 contact hours**Advisory:** HUMSV 130

The biological impact of alcoholism and other drug dependencies, with an emphasis on the treatment and recovery processes, and the role of medical professionals as members of the recovery team are reviewed in this course. (Formerly HUMSV 188)

Associate Degree Applicable**Transfers to CSU only**

HUMSV 134 3 Units**Family Dynamics of Addiction****Lecture:** 54 contact hours**Advisory:** READ 100 and ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course offers an overview of family dynamics associated with alcoholism and drug addiction; the impact of the diseases on family members; family oriented approaches to recovery; and the reintegration of the family into the community. (Formerly HUMSV 186)

Associate Degree Applicable**Transfers to CSU only****HUMSV 135 3 Units****Prevention, Intervention and Recovery****Lecture:** 54 contact hours**Advisory:** READ 100 and ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course provides a comprehensive overview of theories and strategies for the prevention of substance use disorders. Primary, secondary, and tertiary and evidence-based prevention models will be introduced and assessed. Prevention programs and activities appropriate for the community, school, parents and family, and work-sites will be covered. Strategies such as education, public policies, media/information dissemination, ethnic, cultural, and gender-specific approaches, environmental risk reduction, and alternatives will be presented and assessed for their application to different target populations. (Formerly HUMSV 189)

Associate Degree Applicable**Transfers to CSU only****HUMSV 136 3 Units****Addiction Studies: Basic Counseling I****Lecture:** 54 contact hours**Prerequisite:** HUMSV 130 and HUMSV 179

This course is designed for students seeking a certificate in Addiction Studies. Included topics are the dynamics of the helping relationship, analysis and implications of common characteristics of substance dependent individuals, demonstration and practice of assessment, interviewing and referral techniques; and review of counseling skills and case management. (Formerly HUMSV 183)

Associate Degree Applicable**Transfers to CSU only****HUMSV 137 3 Units****Addiction Studies: Group Counseling II****Lecture:** 54 contact hours**Prerequisite:** HUMSV 136 and HUMSV 230 and HUMSV 232

This course is designed for students seeking a certificate in Addiction Studies, and includes practical implications and experience in various recovery and crisis intervention modalities; investigation of and experience in group dynamics; analysis and interpretation of critical aspects of counseling; analysis of the role of significant others in the recovery process; discussion of current treatment interventions; and the process of case management and record keeping. (Formerly HUMSV 184)

Associate Degree Applicable**Transfers to CSU only****HUMSV 140 3 Units****Case Management in Public Service****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course provides an overview of the history, theories, skills and knowledge of case management in public social service settings. Topics include organizational structure, funding streams, regulatory issues, job descriptions, skills, personal qualities, evaluation, assessment and referral, employment services, and career paths. It is designed for students entering into the field of case management in public service.

Associate Degree Applicable**Transfers to CSU only****HUMSV 147 3 Units****Career Specialist****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course provides an introduction to the field of career counseling including interviewing techniques, assessment tools, job opportunities and models for developing occupational options.

Associate Degree Applicable**Transfers to CSU only****HUMSV 167 3 Units****Crisis Intervention****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

The course examines the history and definitions of crisis intervention. Practical application of intervention theories and models, interviewing techniques, referral procedures, and assessment are explained and demonstrated. Analysis of types of crises such as suicide, substance abuse and violence in the workplace; common dangers; and coping methods will be presented. Professional issues including legal and ethical issues, confidentiality, cultural sensitivity and burn out are also covered.

Associate Degree Applicable**Transfers to CSU only****HUMSV 170 3 Units****Introduction to Human Services****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an exploration of the historical and theoretical perspectives of human services in response to social problems. Examination of legal, ethical and problem-solving models are presented and implications of ethnic, gender, and cultural diversity issues are discussed.

Associate Degree Applicable**Transfers to CSU only****HUMSV 172 3 Units****Group and Family Dynamics****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course offers a comprehensive study of the dynamics operating in groups and families including the identification of healthy versus dysfunctional groups/families; methods of intervention in dysfunctional groups/families; and the techniques of facilitating treatment groups.

Associate Degree Applicable**Transfers to CSU only**

HUMSV 173 3 Units**Helping and Interpersonal Skills****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course offers a practical study of helping strategies and interpersonal skills. The focus is on the use of techniques to improve communication, better evaluate relationships, and resolve conflicts.

Associate Degree Applicable**Transfers to CSU only****HUMSV 179 3 Units****Law and Ethics****Lecture:** 54 contact hours**Advisory:** READ 100 and ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course explores the legal, ethical, professional and personal issues involved in the treatment of substance use disorder. Emphasis is placed on professional responsibility and patient rights as well as issues of the work place and professional growth.

Associate Degree Applicable**Transfers to CSU only****HUMSV 187 1 Unit****Adult Children of Alcoholics****Lecture:** 18 contact hours

Overview of the problems experienced by adult children of alcoholics (ACA's) with particular emphasis on the various approaches in counseling ACA's.

Associate Degree Applicable**Transfers to CSU only****HUMSV 195A 1 Unit****Human Services: Intern Seminar I****Lecture:** 18 contact hours**Corequisite:** HUMSV 198C or HUMSV 198D or HUMSV 198E or HUMSV 198F

This course provides an introduction and the identification of applied strategies for crisis intervention, case analysis, and therapeutic interventions, and serves as a lecture-based foundation for student field work. STUDENTS MUST ALSO TAKE THE WORK EXPERIENCE CLASS THAT MATCHES THEIR CERTIFICATE GOAL (HUMSV 198 A-Z)

Associate Degree Applicable**Transfers to CSU only****HUMSV 195B 1 Unit****Human Services: Intern Seminar II****Lecture:** 18 contact hours**Corequisite:** HUMSV 198C or HUMSV 198D or HUMSV 198E or HUMSV 198F.

This course provides an evaluation and application of applied strategies for crisis intervention, case analysis, and therapeutic interventions, and serves as a lecture-based foundation for student field work. STUDENTS MUST ALSO TAKE THE WORK EXPERIENCE CLASS THAT MATCHES THEIR CERTIFICATE GOAL (HUMSV 198 A-Z).

Associate Degree Applicable**Transfers to CSU only****HUMSV 198C 2 Units****Human Services Field Work I****WRKEX:** 180 contact hours**Prerequisite:** HUMSV 170 and HUMSV 172 and HUMSV 173 and HUMSV 179**Corequisite:** HUMSV 195A or HUMSV 195B

This course provides supervised field work in the area of Human Services and beginning helping skills at specific agencies. Students work in their assigned agencies a minimum of 10 hours per week.

Associate Degree Applicable**Transfers to CSU only****HUMSV 198D 2 Units****Human Services Field Work II****WRKEX:** 180 contact hours**Prerequisite:** HUMSV 198C**Corequisite:** HUMSV 195A or HUMSV 195B

This course provides supervised field work in the area of Human Services at specific agencies. Students work in their assigned agencies a minimum of 10 hours per week.

Associate Degree Applicable**Transfers to CSU only****HUMSV 198E 2 Units****Career Specialist Field Work****WRKEX:** 180 contact hours**Prerequisite:** HUMSV 170 and HUMSV 172 and HUMSV 173 and HUMSV 147**Corequisite:** HUMSV 195A or HUMSV 195B

This course provides supervised field work in the area of career specialist at specific agencies. Students work in their assigned agencies a minimum of 10 hours per week.

Associate Degree Applicable**Transfers to CSU only****HUMSV 198F 2 Units****Case Management Field Work****WRKEX:** 180 contact hours**Prerequisite:** HUMSV 140 and HUMSV 167 and HUMSV 170 or HUMSV 173**Advisory:** HUMSV 195A or HUMSV 195B

Supervised field work in the area of case management at specific agencies is provided to students. Students work in their assigned agencies a minimum of 10 hours per week.

Associate Degree Applicable**Transfers to CSU only****HUMSV 205 2 Units****Aids: Practices, Processes and Policy****Lecture:** 36 contact hours

An overview of Acquired Immune Deficiency Syndrome (AIDS) including its diagnosis, transmission, and prevention; the psychosocial and economic impact of the disease on patients and their families and friends; society's response to the disease; and effective approaches to assist individuals coping with AIDS.

Associate Degree Applicable**Transfers to CSU only**

HUMSV 230 1 Unit**Addiction Studies: Internship Seminar I****Lecture:** 18 contact hours**Corequisite:** HUMSV 232

This course is an introduction to the duties and work objectives of counselors in addiction studies and related fields. Basic skills are developed through discussion and demonstration. This course serves as a lecture-based support for students in fieldwork. (Formerly HUMSV 197A)

Associate Degree Applicable**Transfers to CSU only****HUMSV 231 1 Unit****Addiction Studies: Internship Seminar II****Lecture:** 18 contact hours**Corequisite:** HUMSV 233

This course reviews job skills such as case management, assessment, and counseling. These skills are monitored and enhanced through class discussion and demonstration in this lecture-based foundation to the student field work. (Formerly HUMSV 197B)

Associate Degree Applicable**Transfers to CSU only****HUMSV 232 2 Units****Addiction Studies: Field Work I****Lecture:** 36 contact hours**Corequisite:** HUMSV 230

This course provides supervised field work in the areas of orientation, screening, goal setting and evaluation, and the beginning techniques of alcohol and drug counseling at specific agencies. Students work in their assigned agencies a minimum of 10 hours per week. (Formerly HUMSV 198A)

Associate Degree Applicable**Transfers to CSU only****HUMSV 233 2 Units****Addiction Studies: Field Work II****Lecture:** 36 contact hours**Corequisite:** HUMSV 231

This course provides supervised field work in the areas of on the job skills such as treatment planning, intake and assessment and facilitation of groups in the field of alcohol and drug counseling at specific agencies. Students work in their assigned agencies a minimum of 10 hours per week. (Formerly 198B)

Associate Degree Applicable**Transfers to CSU only****HUMSV 281A-Z 0.25-3 Units****Selected Studies in Alcohol/Drug: Addiction Severity Index (ASI)****Lecture:** 4.5 contact hours

Explores addictions in the areas of Human Services, Alcohol/Drug Counseling, Mental Health, Human Development, and Corrections. Suggested subjects include codependency, driving under the influence, co-occurring disorders, tobacco addiction, and assessment instruments, etc.

Transfers to CSU only

Inspection Technology (INSPEC)

INSPEC 011 3 Units**Fundamentals of Construction Inspection: Soils and Concrete****Lecture:** 54 contact hours

This course provides a basic study of soils engineering, soils construction methods, soils identification, soils terminology, concrete and asphalt including cements, aggregates, admixtures, job and batch control, properties of concrete, finishing, curing, reinforcing and nomenclature for inspectors.

Associate Degree Applicable**INSPEC 012 3 Units****Fundamentals of Construction Inspection: Wood, Steel, Masonry****Lecture:** 54 contact hours

This course is a basic study of structures, including wood, steel, and masonry construction, building occupancies, construction and separations, acoustics and sound control (formerly INSPEC 012B).

Associate Degree Applicable**INSPEC 013 3 Units****Advanced Construction Inspection: International Building Code (IBC)****Lecture:** 54 contact hours

This course provides for inspectors a study of the International Building Code (IBC) including application, interpretation, and use of the code (formerly INSPEC 013D).

Associate Degree Applicable**INSPEC 014 3 Units****Advanced Construction Inspection: National Electrical Code (NEC)****Lecture:** 54 contact hours

This course provides an understanding of the National Electrical Code and a study of its applications (formerly INSPEC 014D).

Associate Degree Applicable**INSPEC 015 3 Units****Advanced Construction Inspection: Uniform Plumbing Code (UPC)****Lecture:** 54 contact hours

This course is a study, interpretation and application of the CA Plumbing Code (CPC) (Formerly INSPEC 015D).

Associate Degree Applicable**INSPEC 016 3 Units****Advanced Construction Inspection: Uniform Mechanical Code (UMC)****Lecture:** 54 contact hours

This course is a study of the requirements for the design, construction, installation and maintenance of heating, ventilating, cooling, refrigeration systems, incinerators and other heat-producing appliances required by the CA Mechanical Code (CMC) (formerly INSPEC 016D).

Associate Degree Applicable**INSPEC 017 3 Units****California State Energy Regulations for Residential Buildings****Lecture:** 54 contact hours

This course is a study of the basic compliance requirements of the California Title 24 Energy Efficiency Standards for residential buildings and the 2016 CA Green Building Standards Code. It includes prescriptive and performance methods such as alternative packages and computer models (formerly INPSEC 017D).

Associate Degree Applicable

INSPEC 018 3 Units**California State Energy Regulations for Non-Residential Buildings****Lecture:** 54 contact hours

This course studies basic compliance with California Title 24 Energy Efficiency Standards for non-residential buildings and CA Green Building Standards Code. It includes prescriptive and performance methods such as alternative packages and computer models (formerly INPSEC 018D).

Associate Degree Applicable**INSPEC 026 3 Units****Non-Structural Plan Review****Lecture:** 54 contact hours

This course provides training in the application of the CA Codes to construction drawings, including legal requirements for non-structural plan review, local, State, and Federal laws applicable to construction drawings, and the use of plan reviews as a first step in performing consistent and thorough inspections (formerly INSPEC 026D).

Associate Degree Applicable**INSPEC 027 3 Units****Structural Plan Review****Lecture:** 54 contact hours

This is a basic study of simplified engineering that can be applied to both plan checking and field inspections.

Associate Degree Applicable**INSPEC 028 3 Units****California Residential Code****Lecture:** 54 contact hours

This course provides building and safety personnel with a study of the California Residential Code (CRC) including application, interpretation, and use of the code.

Associate Degree Applicable**INSPEC 029 3 Units****Community Relations for Building Personnel****Lecture:** 54 contact hours

This course covers the development of oral and written communication skills for code enforcement personnel and an introduction to community relations for civil service employees. Topics include the proper methods of dealing with different types of encounters that an inspector may have with do-it-yourself homeowners, contractors, developers, etc. and the legal aspects of code administration and enforcement.

Associate Degree Applicable**INSPEC 030 3 Units****Aspects of Building and Safety****Lecture:** 54 contact hours

This course prepares students for the basic administrative functions of building and safety including: Title 25, Disabled access, staff roles, permit and plan checking, building inspection, and code enforcement.

Associate Degree Applicable**INSPEC 098 1-4 Units****Inspection Technology Work Experience****WRKEX:** 300 contact hours

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable**INSPEC 611 Noncredit****Fundamentals of Construction Inspection: Soils and Concrete****Lecture:** 54 contact hours

This noncredit course provides a basic study of soils engineering, soils construction methods, soils identification, soils terminology, concrete and asphalt including cements, aggregates, admixtures, job and batch control, properties of concrete, finishing, curing, reinforcing and nomenclature for inspectors.

INSPEC 612 Noncredit**Fundamentals of Construction Inspection: Wood, Steel, Masonry****Lecture:** 54 contact hours

This noncredit course is a basic study of structures, including wood, steel, and masonry construction, building occupancies, construction and separations, acoustics and sound control.

INSPEC 613 Noncredit**Advanced Construction Inspection: International Building Code (IBC)****Lecture:** 54 contact hours

This noncredit course provides for inspectors a study of the International Building Code (IBC) including application, interpretation, and use of the code.

INSPEC 614 Noncredit**Advanced Construction Inspection: National Electrical Code (NEC)****Lecture:** 54 contact hours

This noncredit course provides an understanding of the National Electrical Code and a study of its applications.

INSPEC 615 Noncredit**Advanced Construction Inspection: Uniform Plumbing Code (UPC)****Lecture:** 54 contact hours

This noncredit course is a study, interpretation and application of the CA Plumbing Code (CPC).

INSPEC 616 Noncredit**Advanced Construction Inspection: Uniform Mechanical Code (UMC)****Lecture:** 54 contact hours

This noncredit course is a study of the requirements for the design, construction, installation and maintenance of heating, ventilating, cooling, refrigeration systems, incinerators and other heat-producing appliances required by the CA Mechanical Code (CMC).

INSPEC 617 Noncredit**California State Energy Regulations for Residential Buildings****Lecture:** 54 contact hours

This noncredit course is a study of the basic compliance requirements of the California Title 24 Energy Efficiency Standards for residential buildings and the 2016 CA Green Building Standards Code. It includes prescriptive and performance methods such as alternative packages and computer models.

INSPEC 618 Noncredit**California State Energy Regulations For Non-Residential Buildings****Lecture:** 54 contact hours

This noncredit course studies basic compliance with California Title 24 Energy Efficiency Standards for non-residential buildings and CA Green Building Standards Code. It includes prescriptive and performance methods such as alternative packages and computer models.

INSPEC 626 Noncredit**Non-Structural Plan Review****Lecture:** 54 contact hours

This noncredit course provides training in the application of the CA Codes to construction drawings, including legal requirements for non-structural plan review, local, State, and Federal laws applicable to construction drawings, and the use of plan reviews as a first step in performing consistent and thorough inspections.

INSPEC 627 Noncredit**Structural Plan Review****Lecture:** 54 contact hours

This is a noncredit basic study of simplified engineering that can be applied to both plan checking and field inspections.

INSPEC 628 Noncredit**California Residential Code****Lecture:** 54 contact hours

This noncredit course provides building and safety personnel with a study of the California Residential Code (CRC) including application, interpretation, and use of the code.

INSPEC 629 Noncredit**Community Relations for Building Personnel****Lecture:** 54 contact hours

This noncredit course covers the development of oral and written communication skills for code enforcement personnel and an introduction to community relations for civil service employees. Topics include the proper methods of dealing with different types of encounters that an inspector may have with do-it-yourself homeowners, contractors, developers, etc. and the legal aspects of code administration and enforcement.

INSPEC 630 Noncredit**Aspects of Building and Safety****Lecture:** 54 contact hours

This noncredit course prepares students for the basic administrative functions of building and safety including: Title 25, Disabled access, staff roles, permit and plan checking, building inspection, and code enforcement.

Kinesiology (Adapted) (KINA)

KINA 186A 1 Unit**Adapted: Beginning Stretching and Stress Reduction****Lab:** 54 contact hours

This course is designed to teach students with disabilities how to improve range of motion for various muscles in the human body using beginning level stretching techniques. This course also teaches basic techniques for stress reduction. A completed adapted physical education participation form may be required prior to participation in this class.

Associate Degree Applicable**Transfers to both UC/CSU****KINA 186B 1 Unit****Adapted: Intermediate Stretching and Stress Reduction****Lab:** 54 contact hours**Advisory:** KINA 186A

This course is designed to teach students with disabilities how to improve range of motion for various muscles in the human body using intermediate level stretching techniques. This course also teaches intermediate level techniques for stress reduction. A completed adapted physical education participation form may be required prior to participation in this class.

Associate Degree Applicable**Transfers to both UC/CSU****KINA 186C 1 Unit****Adapted: Advanced Stretching and Stress Reduction****Lab:** 54 contact hours**Advisory:** KINA 186B

This course is designed to teach students with disabilities how to improve range of motion for various muscles in the human body using advanced stretching techniques. This course also teaches advanced techniques for stress reduction. A completed adapted physical education participation form may be required prior to participation in this class.

Associate Degree Applicable**Transfers to both UC/CSU****KINA 188A 1 Unit****Adapted: Beginning Fitness and Conditioning****Lab:** 54 contact hours

This course is designed to teach students with disabilities beginner level exercises to improve functional range of motion, muscular strength and cardiovascular endurance. A completed adapted physical education participation form may be required prior to participation in this class.

Associate Degree Applicable**Transfers to both UC/CSU****KINA 188B 1 Unit****Adapted: Intermediate Fitness and Conditioning****Lab:** 54 contact hours**Advisory:** KINA 188A

This course is designed to teach students with disabilities intermediate level exercise techniques to improve range of motion, muscular strength and cardiovascular endurance. A completed adapted physical education participation form may be required prior to participation in this class.

Associate Degree Applicable**Transfers to both UC/CSU****KINA 188C 1 Unit****Adapted: Advanced Fitness and Conditioning****Lab:** 54 contact hours**Advisory:** KINA 188B

This course is designed to teach students with disabilities advanced level exercises for maximizing range of motion, muscular strength and cardiovascular endurance. Designing and leading an exercise program is also taught. A completed adapted physical education participation form may be required prior to participation in this class.

Associate Degree Applicable**Transfers to both UC/CSU****KINA 189A 1 Unit****Adapted: Beginning Resistance Training****Lab:** 54 contact hours

This course is designed for students with disabilities. This course provides instruction in beginning level physical activities to improve muscular strength and endurance. A completed adapted physical education participation form may be required prior to participation in this class.

Associate Degree Applicable**Transfers to both UC/CSU****KINA 189B 1 Unit****Adapted: Intermediate Resistance Training****Lab:** 54 contact hours**Advisory:** KINA 189A

This course is designed for students with disabilities. This course provides instruction in intermediate level physical activities to improve muscular strength and endurance. A completed adapted physical education participation form may be required prior to participation in this class.

Associate Degree Applicable**Transfers to both UC/CSU**

KINA 189C 1 Unit**Adapted: Advanced Resistance Training****Lab:** 54 contact hours**Advisory:** KINA 189B

This course is designed for students with disabilities. This course provides instruction in advanced level physical activities to improve muscular strength and endurance. A completed adapted physical education participation form may be required prior to participation in this class.

Associate Degree Applicable**Transfers to both UC/CSU**

Kinesiology (Athletics) (KINX)

KINX 110AX3 3 Units**Intercollegiate Cross Country - Men****Lab:** 162 contact hours

This course is intended for members of the Men's Intercollegiate Cross-Country team. The course will provide instruction and training in the skills, knowledge, techniques, strategies, conditioning and teamwork required for intercollegiate cross-country competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 110BX3 1 Unit****Intercollegiate Cross Country - Men Pre-Season Athletics****Lab:** 54 contact hours

This course is designed for pre-season intercollegiate athletics conditioning which includes: strength training, cardiovascular conditioning, drill techniques and game play in preparation for competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 110CX3 2 Units****Intercollegiate Cross Country - Men Off-Season Athletics****Lab:** 108 contact hours

This course is designed for off-season sports conditioning in preparation for athletic participation. The course includes sport specific training with the purpose of developing areas of individual weaknesses. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 111AX3 3 Units****Intercollegiate Cross Country - Women****Lab:** 162 contact hours

This course is intended for members of the Women's Intercollegiate Cross-Country team. The course will provide instruction and training in the skills, knowledge, techniques, strategies, conditioning, and teamwork required for intercollegiate cross-country competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 111BX3 1 Unit****Intercollegiate Cross Country Women Pre-Season Athletics****Lab:** 54 contact hours

This course is designed for pre-season intercollegiate athletics conditioning which includes: strength training, cardiovascular conditioning, drill techniques and game play in preparation for competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 111CX3 2 Units****Intercollegiate Cross Country - Women Off-Season Athletics****Lab:** 108 contact hours

This course is designed for off-season sports conditioning in preparation for athletic participation. The course includes sport specific training with the purpose of developing areas of individual weaknesses. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 112AX3 3 Units****Intercollegiate Football - Offense****Lab:** 162 contact hours

This course is intended for members of the Intercollegiate Football team. The course will provide instruction and training in the skills, knowledge, techniques, strategies, conditioning and teamwork required for intercollegiate football competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 112BX3 1 Unit****Intercollegiate Football - Offense Pre-Season Athletics****Lab:** 54 contact hours

This course is designed for pre-season intercollegiate athletics conditioning which includes: strength training, cardiovascular conditioning, drill techniques and game play in preparation for competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 112CX3 2 Units****Intercollegiate Football - Offense Off-Season Athletics****Lab:** 108 contact hours

This course is designed for off-season sports conditioning in preparation for athletic participation. The course includes sport specific training with the purpose of developing areas of individual weaknesses. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 113AX3 3 Units****Intercollegiate Football - Defense****Lab:** 162 contact hours

This course is intended for members of the Intercollegiate Football team. The course will provide instruction and training in the skills, knowledge, techniques, strategies, conditioning and teamwork required for intercollegiate football competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU**

KINX 113BX3 1 Unit**Intercollegiate Football - Defense Pre-Season Athletics****Lab:** 54 contact hours

This course is designed for pre-season intercollegiate athletics conditioning which includes: strength training, cardiovascular conditioning, drill techniques and game play in preparation for competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 113CX3 2 Units****Intercollegiate Football - Defense Off-Season Athletics****Lab:** 108 contact hours

This course is designed for off-season sports conditioning in preparation for athletic participation. The course includes sport specific training with the purpose of developing areas of individual weaknesses. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 114AX3 3 Units****Intercollegiate Soccer - Men****Lab:** 162 contact hours

This course is intended for members of the Men's Intercollegiate Soccer team. The course will provide instruction and training in the skills, knowledge, techniques, strategies, conditioning and teamwork required for intercollegiate soccer competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 114BX3 1 Unit****Intercollegiate Soccer - Men Pre-Season Athletics****Lab:** 54 contact hours

This course is designed for pre-season intercollegiate athletics conditioning which includes: strength training, cardiovascular conditioning, drill techniques and game play in preparation for competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 114CX3 2 Units****Intercollegiate Soccer - Men Off-Season Athletics****Lab:** 108 contact hours

This course is designed for off-season sports conditioning in preparation for athletic participation. The course includes sport specific training with the purpose of developing areas of individual weaknesses. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 115AX3 3 Units****Intercollegiate Soccer - Women****Lab:** 162 contact hours

This course is intended for members of the Women's Intercollegiate Soccer team. The course will provide instruction and training in the skills, knowledge, techniques, strategies, conditioning and teamwork required for intercollegiate soccer competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 115BX3 1 Unit****Intercollegiate Soccer - Women Pre-Season Athletics****Lab:** 54 contact hours

This course is designed for pre-season intercollegiate athletics conditioning which includes: strength training, cardiovascular conditioning, drill techniques and game play in preparation for competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 115CX3 2 Units****Intercollegiate Soccer - Women Off-Season Athletics****Lab:** 108 contact hours

This course is designed for off-season sports conditioning in preparation for athletic participation. The course includes sport specific training with the purpose of developing areas of individual weaknesses. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 116AX3 3 Units****Intercollegiate Volleyball - Women****Lab:** 162 contact hours

This course is intended for members of the Women's Intercollegiate Volleyball team. The course will provide instruction and training in the techniques, strategies, conditioning and teamwork required for intercollegiate volleyball competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 116BX3 1 Unit****Intercollegiate Volleyball - Women Pre-Season Athletics****Lab:** 54 contact hours

This course is designed for pre-season intercollegiate athletics conditioning which includes: strength training, cardiovascular conditioning, drill techniques and game play in preparation for competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 116CX3 2 Units****Intercollegiate Volleyball - Women Off-Season Athletics****Lab:** 108 contact hours

This course is designed for off-season sports conditioning in preparation for athletic participation. The course includes sport specific training with the purpose of developing areas of individual weaknesses. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 120AX3 1.5 Units****Intercollegiate Basketball - Men, Fall****Lab:** 81 contact hours

This course is intended for members of the Men's Intercollegiate Basketball team. The course will provide instruction and training in the skills, knowledge, techniques, strategies, conditioning and teamwork required for intercollegiate basketball competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU**

KINX 120BX3 1.5 Units**Intercollegiate Basketball - Men, Spring****Lab:** 81 contact hours

This course is intended for members of the Men's Intercollegiate Basketball team. The course is the second of the sequence that focuses on conference and postseason competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT FOR KINX 120Ax3.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 120CX3 1.5-2 Units****Intercollegiate Basketball - Men Pre-Season Athletics****Lab:** 108 contact hours

This course is designed for pre-season intercollegiate athletics conditioning which includes: strength training, cardiovascular conditioning, drill techniques and game play in preparation for competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 120DX4 0.5-1 Units****Intercollegiate Basketball - Men Off-Season Athletics****Lab:** 54 contact hours

This course is designed for off-season sports conditioning in preparation for athletic participation. The course includes sport specific training with the purpose of developing areas of individual weaknesses. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 121AX3 1.5 Units****Intercollegiate Basketball - Women, Fall****Lab:** 81 contact hours

This course is intended for members of the Women's Intercollegiate Basketball team. The course will provide instruction and training in the skills, knowledge, techniques, strategies, conditioning and teamwork required for intercollegiate basketball competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 121BX3 1.5 Units****Intercollegiate Basketball - Women, Spring****Lab:** 81 contact hours

This course is intended for members of the Women's Intercollegiate Basketball team. The course is the second of the sequence that focuses on conference and postseason competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT FOR KINX 121Ax3.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 121CX3 1.5-2 Units****Intercollegiate Basketball - Women Pre-Season Athletics****Lab:** 108 contact hours

This course is designed for pre-season athletics basketball training, which includes strength training, cardiovascular conditioning, drill techniques and game play in preparation for competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 121DX4 0.5-1 Units****Intercollegiate Basketball - Women Off-Season Athletics****Lab:** 54 contact hours

This course is designed for off-season basketball skill development in preparation for athletic participation. The course includes sport specific training with the purpose of developing areas of individual weaknesses. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 130AX3 3 Units****Intercollegiate Baseball****Lab:** 162 contact hours

This course is intended for members of the Intercollegiate Baseball Team. The course will provide instruction and training in the skills, knowledge, techniques, strategies, conditioning and teamwork required for intercollegiate baseball competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 130BX3 2 Units****Intercollegiate Baseball Pre-Season Athletics****Lab:** 108 contact hours

This course is designed for pre-season intercollegiate athletics conditioning which includes: strength training, cardiovascular conditioning, drill techniques and game play in preparation for competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 130CX3 1 Unit****Intercollegiate Baseball Off-Season Athletics****Lab:** 54 contact hours

This course is designed for off-season sports conditioning in preparation for athletic participation. The course includes sport specific training with the purpose of developing areas of individual weaknesses. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 131AX3 3 Units****Intercollegiate Softball****Lab:** 162 contact hours

This course is intended for members of the Women's Intercollegiate Softball team. The course will provide instruction and training in the skills, knowledge, techniques, strategies, conditioning and teamwork required for intercollegiate softball competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 131BX3 2 Units****Intercollegiate Softball Pre-Season Athletics****Lab:** 108 contact hours

This course is designed for pre-season intercollegiate athletics conditioning which includes: strength training, cardiovascular conditioning, drill techniques and game play in preparation for competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU**

KINX 131CX3 1 Unit**Intercollegiate Softball Off-Season Athletics****Lab:** 54 contact hours

This course is designed for off-season sports conditioning in preparation for athletic participation. The course includes sport specific training with the purpose of developing areas of individual weaknesses. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 132AX3 3 Units****Intercollegiate Track and Field - Men****Lab:** 162 contact hours

This course is intended for members of the Men's Intercollegiate Track and Field team. The course will provide instruction and training in the skills, knowledge, techniques, strategies, conditioning and teamwork required for intercollegiate track and field competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 132BX3 2 Units****Intercollegiate Track and Field - Men Pre-Season Athletics****Lab:** 108 contact hours

This course is designed for pre-season intercollegiate athletics conditioning which includes: strength training, cardiovascular conditioning, drill techniques and game play in preparation for competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 132CX3 1 Unit****Intercollegiate Track and Field - Men Off-Season Athletics****Lab:** 54 contact hours

This course is designed for off-season sports conditioning in preparation for athletic participation. The course includes sport specific training with the purpose of developing areas of individual weaknesses. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 133AX3 3 Units****Intercollegiate Track and Field - Women****Lab:** 162 contact hours

This course is intended for members of the Women's Intercollegiate Track and Field team. The course will provide instruction and training in the skills, knowledge, techniques, strategies, conditioning and teamwork required for intercollegiate competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 133BX3 2 Units****Intercollegiate Track and Field - Women Pre-Season Athletics****Lab:** 108 contact hours

This course is designed for pre-season intercollegiate athletics conditioning which includes: strength training, cardiovascular conditioning, drill techniques and game play in preparation for competition. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU****KINX 133CX3 1 Unit****Intercollegiate Track and Field - Women Off-Season Athletics****Lab:** 54 contact hours

This course is designed for off-season sports conditioning in preparation for athletic participation. The course includes sport specific training with the purpose of developing areas of individual weaknesses. LIMITATION ON ENROLLMENT: ENROLLMENT IS BASED ON A SUCCESSFUL TRYOUT.

Associate Degree Applicable**Transfers to both UC/CSU**

Kinesiology (Fitness) (KINF)

KINF 101A 1 Unit**Beginning Boxing for Fitness****Lab:** 54 contact hours

This course is designed to teach beginning level boxing skills and techniques. Boxing movements and drills will be utilized to help students improve cardiovascular conditioning, muscular endurance, balance, and coordination.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 101B 1 Unit****Intermediate Boxing for Fitness****Lab:** 54 contact hours**Advisory:** KINF 101A

This course is designed to teach intermediate level boxing skills and techniques. Boxing movements and drills will be utilized to help students improve cardiovascular conditioning, muscular endurance, balance, and coordination.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 101C 1 Unit****Advanced Boxing for Fitness****Lab:** 54 contact hours**Advisory:** KINF 101B

This course is designed to teach advanced level boxing skills and techniques. Boxing movements and drills will be utilized to help students improve cardiovascular conditioning, muscular endurance, balance, and coordination.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 105A 1 Unit****Beginning Low Impact Aerobics****Lab:** 54 contact hours

This course is designed to teach basic fitness concepts and beginning level movement skills to enhance strength, flexibility, endurance, movement memory, balance, coordination, and cardiovascular fitness.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 105B 1 Unit****Intermediate Low Impact Aerobics****Lab:** 54 contact hours**Advisory:** KINF 105A

This course is designed to teach intermediate level fitness concepts and movement skills to enhance strength, flexibility, endurance, movement memory, balance, coordination, and cardiovascular fitness. Students will also learn how to design a basic step aerobics program.

Associate Degree Applicable**Transfers to both UC/CSU**

KINF 105C 1 Unit**Advanced Low Impact Aerobics****Lab:** 54 contact hours**Advisory:** KINF 105B

This course is designed to teach advanced level fitness concepts and movement skills to enhance strength, flexibility, endurance, movement memory, balance, coordination, and cardiovascular fitness. Students will also learn how to design an intermediate level step aerobics program.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 108A 1 Unit****Beginning Weight Training****Lab:** 54 contact hours

The course is designed to teach beginning level students safe and proper technique for resistance exercises. Students will use free weights and universal machines to develop muscle strength and endurance. Students of all ability levels will receive individual instruction and personally tailored programs.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 108B 1 Unit****Intermediate Weight Training****Lab:** 54 contact hours**Advisory:** KINF 108A

The course is designed to teach safe and proper intermediate level techniques for resistance exercises, including multi-joint movements. Students will use free weights and universal machines to develop muscle strength and endurance. Students of all ability levels will receive individual instruction and create personally tailored programs.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 108C 1 Unit****Advanced Weight Training****Lab:** 54 contact hours**Advisory:** KINF 108B

The course is designed to teach safe and proper advanced level technique for resistance exercises. Students will use free weights, Olympic platforms, and universal machines to develop muscle strength and endurance through multi-joint and Olympic lift exercises. Students of all ability levels will receive individual instruction and create personally tailored programs.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 112A 1 Unit****Beginning Body Conditioning****Lab:** 54 contact hours

This course is designed to teach beginner level fitness concepts and movement skills to improve overall cardiovascular fitness, as well as muscular strength and endurance. Instruction will be modified to accommodate students of all fitness and skill levels.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 112B 1 Unit****Intermediate Body Conditioning****Lab:** 54 contact hours**Advisory:** KINF 112A

This course is designed to teach intermediate level fitness concepts and movement skills to improve overall cardiovascular fitness, as well as muscular strength and endurance.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 112C 1 Unit****Advanced Body Conditioning****Lab:** 54 contact hours**Advisory:** KINF 112B

This course is designed to teach advanced level fitness concepts and movement skills to improve overall cardiovascular fitness, as well as muscular strength and endurance.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 127A 1 Unit****Beginning Walking for Fitness****Lab:** 54 contact hours

The course is designed to help improve cardiovascular endurance and overall fitness through walking. Beginning level training principles and proper technique will be taught to promote this lifelong activity.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 127B 1 Unit****Intermediate Walking for Fitness****Lab:** 54 contact hours**Advisory:** KINF 127A

The course is designed to help improve cardiovascular endurance and overall fitness through walking. Intermediate level training principles, technique and program design will be taught to promote this lifelong activity.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 127C 1 Unit****Advanced Walking for Fitness****Lab:** 54 contact hours**Advisory:** KINF 127B

The course is designed to help improve cardiovascular endurance and overall fitness through walking. Advanced level training principles, technique program design and injury prevention and care will be taught to promote this lifelong activity.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 132A 1 Unit****Beginning Distance Running****Lab:** 54 contact hours

In this course, students will learn beginner level skills, techniques, and strategies of distance running. Instruction will focus on improving the student's running efficiency, cardiovascular fitness, and distance running knowledge.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 132B 1 Unit****Intermediate Distance Running****Lab:** 54 contact hours**Advisory:** KINF 132A

In this course, students will learn intermediate level skills, techniques, and strategies of distance running. Instruction will focus on improving the student's running efficiency, cardiovascular fitness, running biomechanics and strategy development.

Associate Degree Applicable**Transfers to both UC/CSU**

KINF 132C 1 Unit**Advanced Distance Running****Lab:** 54 contact hours**Advisory:** KINF 132B

In this course, students will learn advanced level skills, techniques, and strategies of distance running. Instruction will focus on maximizing running efficiency, improving cardiovascular fitness, and practicing various race strategies.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 138A 1 Unit****Beginning Physical Fitness****Lab:** 54 contact hours

This course is a structured exercise class designed to help students participate in a beginning level exercise program including cardiovascular endurance, muscular strength and flexibility training. Instructor guided equipment orientation, fitness testing, and exercise technique are provided.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 138B 1 Unit****Intermediate Physical Fitness****Lab:** 54 contact hours**Advisory:** KINF 138A

The course is a structured exercise class designed to help intermediate level students develop and participate in a balanced exercise program including cardiovascular endurance, muscular strength and flexibility training. Instructor guided equipment orientation, fitness testing, exercise technique, and individualized programming are provided.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 138C 1 Unit****Advanced Physical Fitness****Lab:** 54 contact hours**Advisory:** KINF 138B

This course is a structured exercise class designed to help advanced level students develop a balanced exercise program including cardiovascular endurance, muscular strength and flexibility training. Instructor guided equipment orientation, fitness testing, exercise technique, and individualized programming are provided.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 142A 1 Unit****Beginning Conditioning for Sports****Lab:** 54 contact hours

This course is designed to teach beginning level students muscular strength and endurance exercises, flexibility and core training skills and cardiovascular fitness. It is geared toward improving skills for participation in sports.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 142B 1 Unit****Intermediate Conditioning for Sports****Lab:** 54 contact hours**Advisory:** KINF 142A

This course is designed to teach intermediate level students muscular strength and endurance exercises, flexibility and core training skills and cardiovascular fitness. It is geared toward improving skills for participation in sports.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 142C 1 Unit****Advanced Conditioning for Sports****Lab:** 54 contact hours**Advisory:** KINF 142B

This course is designed to teach advanced level students muscular strength and endurance exercises, flexibility and core training skills and cardiovascular fitness. It is geared toward improving skills for participation in sports.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 150A 1 Unit****Beginning Table Tennis****Lab:** 54 contact hours

This course is designed to teach beginning table tennis skills and techniques. Students will learn the fundamental instruction of basic strokes, rules, and scoring strategies.

Associate Degree Applicable**Transfers to CSU only****KINF 150B 1 Unit****Intermediate Table Tennis****Lab:** 54 contact hours**Advisory:** KINF 150A

This course is designed to teach intermediate table tennis skills and techniques. Students will learn overhead shots, volleying techniques, singles strategies, and a variety of other shots.

Associate Degree Applicable**Transfers to CSU only****KINF 150C 1 Unit****Advanced Table Tennis****Lab:** 54 contact hours**Advisory:** KINF 150B

This course is designed to teach advanced table tennis skills and techniques. Students will learn shot selection strategies, doubles strategies, opponent evaluation, and tournament play skills.

Associate Degree Applicable**Transfers to CSU only****KINF 168A 1 Unit****Beginning Yoga****Lab:** 54 contact hours

This course is designed to introduce and practice beginning level Hatha Yoga. Improvement in balance, flexibility, muscle strength and endurance will be introduced. Meditation, breathing and relaxation techniques will be employed to assist in stress reduction.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 168B 1 Unit****Intermediate Yoga****Lab:** 54 contact hours**Advisory:** KINF 168A

This activity course is designed to teach the practice of intermediate level Hatha Yoga. Improvement in balance, flexibility, muscle strength and endurance will be emphasized. Meditation, breathing and relaxation techniques will be employed to assist in stress reduction.

Associate Degree Applicable**Transfers to both UC/CSU**

KINF 168C 1 Unit**Advanced Yoga****Lab:** 54 contact hours**Advisory:** KINF 168B

This activity course is designed to teach students advanced level Hatha Yoga as well as creating and leading a yoga flow sequence. Maximizing balance, flexibility, muscle strength and endurance will be emphasized. Meditation, breathing and relaxation techniques will be employed to assist in stress reduction.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 190A 1 Unit****Beginning Tai Chi****Lab:** 54 contact hours

This course is designed to study and practice Tai Chi at the beginning level. The history, research, and benefits of Tai Chi will be examined, and the basic 12 forms of Tai Chi will be explored. The course will include individual and group instruction and practice.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 190B 1 Unit****Intermediate Tai Chi****Lab:** 54 contact hours**Advisory:** KINF 190A

This course is designed to study and practice Tai Chi at the intermediate level. The benefits of Tai Chi will be examined, and the basic 24 forms of Tai Chi will be explored. The course will include individual and group instruction and practice.

Associate Degree Applicable**Transfers to both UC/CSU****KINF 190C 1 Unit****Advanced Tai Chi****Lab:** 54 contact hours**Advisory:** KINF 190B

This course is designed to study and practice Tai Chi at the advanced level. The relationship between Tai Chi and well-being will be examined, and the basic 42 forms of Tai Chi will be explored. The course will include individual and group instruction and practice.

Associate Degree Applicable**Transfers to both UC/CSU**

Kinesiology (KIN)

KIN 098 1-4 Units**Kinesiology Work Experience****WRKEX:** 300 contact hours

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable**KIN 200 3 Units****Introduction to Physical Education and Kinesiology****Lecture:** 54 contact hours

Advisory: ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This introductory course provides an interdisciplinary approach to the study of human movement. An overview of the importance of the sub-disciplines in kinesiology will be discussed along with career opportunities in the areas of teaching, coaching, allied health, and fitness professions.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** KIN 100**KIN 201 3 Units****Mental Skills for Sport Performance****Lecture:** 54 contact hours

This course develops an understanding of the mental aspects of sport performance and the mental skills that can be used to enhance sport performance.

Associate Degree Applicable**Transfers to both UC/CSU****KIN 202 3 Units****History of Physical Education and Sport In the United States****Lecture:** 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is designed to explore the evolution of sport and physical activity. Topics include historical and philosophical influences from ancient societies through the present.

Associate Degree Applicable**Transfers to both UC/CSU****KIN 203 3 Units****Theory of Coaching****Lecture:** 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course explores the issues and problems facing the coach today. Topics include the philosophies, theories and principles of developing and maintaining an athletic program. This course is designed for coaches at various levels from youth to high school varsity.

Associate Degree Applicable**Transfers to both UC/CSU****KIN 210 2 Units****Sports Officiating****Lecture:** 36 contact hours

This course is designed to provide instruction on the rules, techniques, and mechanics of officiating the sports of soccer, football, basketball, and baseball.

Associate Degree Applicable**Transfers to both UC/CSU****KIN 222 1-3 Units****Independent Study in Kinesiology****DIR:** 54 contact hours

Students with previous course work in Kinesiology/Physical Education may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of Kinesiology/Physical Education. Prior to registration, a written contract must be prepared jointly by the instructor and the student. See instructor for details.

Associate Degree Applicable**Transfers to CSU, Limited to UC, Credit Determined After Transfer**

KIN 231 3 Units**First Aid and CPR****Lecture:** 54 contact hours

This course provides instruction on emergency care and treatment of illnesses and injuries including training in cardiopulmonary resuscitation (CPR) and automated external defibrillation (AED). Students who successfully pass all CPR/AED and First Aid requirements will receive a CPR/AED and First Aid card.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** KIN 101**KIN 232 3 Units****Prevention and Care of Athletic Injuries****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** KIN 231

This is an introductory course in the recognition, assessment, management, care, and prevention of injuries occurring during physical activities. Basic taping techniques, as well as the proper selection and use of treatment modalities, are included.

Associate Degree Applicable**Transfers to both UC/CSU****KIN 236 3 Units****Stress Management and Wellness****Lecture:** 54 contact hours

This course covers stress with emphasis on the physiological, psychological, and sociological issues throughout the lifespan. Topics include: recognition and analysis of symptoms of stress, scientific studies, assessment tools, fitness programs, meditation, yoga, nutrition, weight control, and healthy habits that enhance health and well-being.

Associate Degree Applicable**Transfers to CSU only**

Kinesiology (Team) (KINS)

KINS 100A 1 Unit**Beginning Baseball****Lab:** 54 contact hours

This course is designed to teach beginning level skills, techniques, strategies, etiquette, and rules of baseball.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 100B 1 Unit****Intermediate Baseball****Lab:** 54 contact hours**Advisory:** KINS 100A

This course is designed to teach intermediate level skills, techniques, strategies, etiquette, and rules of baseball.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 100C 1 Unit****Advanced Baseball****Lab:** 54 contact hours**Advisory:** KINS 100B

This course is designed to teach advanced level skills, techniques, strategies, etiquette, and rules of baseball.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 103A 1 Unit****Beginning Badminton****Lab:** 54 contact hours

This course will provide beginning level instruction in the skills, techniques, strategies, etiquette and rules of badminton. With the application of these techniques and practice, students will improve their overall fitness.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 103B 1 Unit****Intermediate Badminton****Lab:** 54 contact hours**Advisory:** KINS 103A

This course will provide instruction in the skills, techniques and strategies of badminton at the intermediate level of performance. With the application of these techniques and practice, students will improve their overall fitness.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 103C 1 Unit****Advanced Badminton****Lab:** 54 contact hours**Advisory:** KINS 103B

This course will provide instruction in the skills, techniques and strategies of badminton at an advanced level of performance. With the application of these techniques and practice, students will improve their overall fitness.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 104A 1 Unit****Beginning Basketball****Lab:** 54 contact hours

This course is designed to teach the skills, techniques, strategies, etiquette and rules of basketball at a beginning level of performance. Students may also improve their overall physical fitness.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 104B 1 Unit****Intermediate Basketball****Lab:** 54 contact hours**Advisory:** KINS 104A

This course is designed to teach the skills, techniques, strategies, etiquette and rules of basketball at an intermediate level of performance. Students may also improve their overall physical fitness.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 104C 1 Unit****Advanced Basketball****Lab:** 54 contact hours**Advisory:** KINS 104B

This course is designed to teach the skills, techniques, strategies, etiquette and rules of basketball at an advanced level of performance. Students may also improve their overall physical fitness.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 108A 1 Unit****Beginning Football****Lab:** 54 contact hours

This activity course is designed to introduce students to the skills, techniques, strategy, rules as well as ethics of football at the beginner level.

Associate Degree Applicable**Transfers to both UC/CSU**

KINS 108B 1 Unit**Intermediate Football****Lab:** 54 contact hours**Advisory:** KINS 108A

This activity course is designed to introduce students to the skills, techniques, strategy, rules as well as ethics of football at the intermediate level.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 108C 1 Unit****Advanced Football****Lab:** 54 contact hours**Advisory:** KINS 108B

This activity course is designed to introduce students to the skills, techniques, strategy, rules as well as ethics of football at the advanced level.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 112A 1 Unit****Beginning Indoor Soccer****Lab:** 54 contact hours

This course is designed to teach beginning level rules, skills and techniques of indoor soccer, as well as individual and team strategies for game play.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 112B 1 Unit****Intermediate Indoor Soccer****Lab:** 54 contact hours**Corequisite:** KINS 112A

This course is designed to teach intermediate level skills and techniques of indoor soccer, as well as individual and team strategies for game play.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 112C 1 Unit****Advanced Indoor Soccer****Lab:** 54 contact hours**Prerequisite:** KINS 112B

This course is designed to teach advanced level skills and techniques of indoor soccer, as well as individual and team strategies for game play.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 116A 1 Unit****Beginning Soccer****Lab:** 54 contact hours

This course will provide beginning level instruction in the skills, techniques, strategies and rules of soccer. With the application of these techniques and practice, students may also improve their overall fitness.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 116B 1 Unit****Intermediate Soccer****Lab:** 54 contact hours**Advisory:** KINS 116A

This course will provide instruction in the skills, techniques and strategies of soccer at the intermediate level of performance. With the application of these techniques and practice, students may also improve their overall fitness.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 116C 1 Unit****Advanced Soccer****Lab:** 54 contact hours**Advisory:** KINS 116B

This course will provide instruction in the skills, techniques and strategies of soccer at the advanced level of performance. With the application of these techniques and practice, students may also improve their overall fitness.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 120A 1 Unit****Beginning Softball****Lab:** 54 contact hours

This course will provide instruction in the skills, techniques, strategies, etiquette and rules of softball at the beginner level of performance. With the application of these techniques and practice, students will improve their overall fitness.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 120B 1 Unit****Intermediate Softball****Lab:** 54 contact hours**Advisory:** KINS 120A

This course will provide instruction in the skills, techniques, strategies, etiquette and rules of softball at the intermediate level of performance. With the application of these techniques and practice, students will improve their overall fitness.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 120C 1 Unit****Advanced Softball****Lab:** 54 contact hours**Advisory:** KINS 120B

This course will provide instruction in the skills, techniques, strategies, etiquette and rules of softball at an advanced level of performance. With the application of these techniques and practice, students will improve their overall fitness.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 124A 1 Unit****Beginning Volleyball****Lab:** 54 contact hours

This course is designed to teach the skills, techniques, strategies, etiquette and rules of volleyball at the beginning level of performance. Students may also improve their overall physical fitness.

Associate Degree Applicable**Transfers to both UC/CSU****KINS 124B 1 Unit****Intermediate Volleyball****Lab:** 54 contact hours**Advisory:** KINS 124A

This course is designed to teach the skills, techniques, strategies, etiquette and rules of volleyball at an intermediate level of performance. Students may also improve their overall physical fitness.

Associate Degree Applicable**Transfers to both UC/CSU**

KINS 124C 1 Unit**Advanced Volleyball****Lab:** 54 contact hours**Advisory:** KINS 124B

This course is designed to teach the skills, techniques, strategies, etiquette and rules of volleyball at an advanced level of performance. Students may also improve their overall physical fitness.

Associate Degree Applicable**Transfers to both UC/CSU**

Library Technology (LIB)

LIB 062 1 Unit**Care and Repair of Library Materials****Lecture:** 9 contact hours**Lab:** 27 contact hours

This course provides the basic, hands-on techniques used in the binding, repair, and care of printed library materials.

Associate Degree Applicable**LIB 063 3 Units****Survey of Literature for Library Technicians****Lecture:** 54 contact hours**Prerequisite/Corequisite:** LIB 064

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an introductory study of Readers' Advisory work as performed in public, academic, and school libraries. It offers a practical study of popular literature and literary genres, interpersonal skills, and interview techniques needed to become successful in recommending specific titles and/or authors to library patrons based on parameters such as reading interests, age groups, and reading levels.

Associate Degree Applicable**LIB 064 3 Units****Introduction to Library Services****Lecture:** 54 contact hours

This course is an introduction to the philosophy of library services; the history and types of libraries; the relationship of a library to the community it serves; the organizational structure of libraries; the role of the Library Technician; and the development of a positive workplace attitude.

Associate Degree Applicable**LIB 065 3 Units****Public Services****Lecture:** 54 contact hours**Prerequisite/Corequisite:** LIB 064**Advisory:** READ 015

This course is an introduction to the public services provided by the modern library. Topics include circulation systems and practices; library classification and catalogs; customer service; reference resources and services; government information resources; information literacy instruction; archives and special collections; library programming; censorship; and security issues in libraries.

Associate Degree Applicable**LIB 066 3 Units****Acquisitions****Lecture:** 54 contact hours**Advisory:** READ 015

This course is an introduction to acquisitions practices in the modern library. Topics include needs assessment; collection management; selection of print and online resources; acquisitions processes; weeding/deselection of materials; ethics; preservation; legal and safety issues in libraries; and intellectual freedom.

Associate Degree Applicable**LIB 067 3 Units****Cataloging and Classification****Lecture:** 54 contact hours**Prerequisite/Corequisite:** LIB 064

This course is an introduction to descriptive and subject cataloging, classification of materials using the Dewey Decimal and Library of Congress systems, preparation of MARC computer database records, and use of electronic bibliographic utilities.

Associate Degree Applicable**LIB 070 3 Units****Library Technology and Computer Services****Lecture:** 54 contact hours**Advisory:** READ 015 and LIB 064

This class is an introduction to the application and integration of automation systems and computer in libraries. Students will be exposed to a variety of computer applications, including online public access catalogs and automated circulation systems. This course provides an overview of a wide variety of computer services and issues within a library setting ranging from public access, social media, cyber security and emerging technologies.

Associate Degree Applicable**LIB 071 2 Units****Youth Services and Programs****Lecture:** 36 contact hours**Prerequisite:** READ 015

This course explores age appropriate library services and programming for youth in public and school libraries.

Associate Degree Applicable**LIB 073 2 Units****Library Digital Archives and Resources****Lecture:** 36 contact hours**Advisory:** READ 015 and LIB 064

This course introduces archival theory and methods with a focus on digital media storage and preservation, including born-digital and digitized materials.

Associate Degree Applicable**LIB 098 1-4 Units****Library Work Experience****WRKEX:** 300 contact hours

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable

LIB 110 3 Units**Information Literacy and Research****Lecture:** 54 contact hours**Advisory:** READ 015

This is an introductory course covering the skills needed to effectively access library and online information sources, to critically evaluate the information retrieved, and to practice ethical behavior in regard to information technology.

Associate Degree Applicable**Transfers to both UC/CSU**

Machinist Technology (MACH)

MACH 010 1 Unit**Fundamentals of Industrial Maintenance****Lecture:** 18 contact hours

This course covers orientation to the trade and tools of the trade for industrial maintenance mechanics.

Associate Degree Applicable**MACH 014 1 Unit****Craft Related Quantitative Skills****Lecture:** 18 contact hours

This course is designed to give students the fundamental quantitative skills commonly used by industrial maintenance mechanics.

Associate Degree Applicable**MACH 016 1 Unit****Construction Print Reading****Lecture:** 18 contact hours

This course is designed to give students the fundamental skills to read commonly used prints in construction by industrial maintenance mechanics.

Associate Degree Applicable**MACH 018 1.5 Units****Gaskets, Pumps, and Valves****Lecture:** 27 contact hours

This course is designed to give students the fundamental skills in gaskets, packing, pumps, drivers, valves and lubrication used for industrial maintenance mechanics.

Associate Degree Applicable**MACH 020 1.5 Units****Material Handling, and Support Equipment****Lecture:** 27 contact hours

This course is designed to give students the fundamental skills in material handling, hand rigging, mobile and support equipment used for industrial maintenance mechanics.

Associate Degree Applicable**MACH 021 4 Units****Machine Shop I****Lecture:** 18 contact hours**Lab:** 162 contact hours**Advisory:** MACH 090 and MACH 120

This course includes basic machine shop practices, with an emphasis on Occupational Safety and Health Act (OSHA), basic shop mathematics, measurements, the correct use of basic machine tools, mills, lathes, saws, drill presses, and provides an introduction to National Institute for Metalworking Skills (NIMS) Standards Level I, Bench and Layout.

Associate Degree Applicable**MACH 022 4 Units****Machine Shop II****Lecture:** 18 contact hours**Lab:** 162 contact hours**Advisory:** MACH 021

This course includes machine shop practices for students with a machining background. Emphasis is placed on mathematical speeds and feed formulas, boring processes on mills and lathes, tool grinding, National Institute for Metalworking Skills (NIMS) Standards. At the completion of this course, students will have completed certain NIMS certification competencies.

Associate Degree Applicable**MACH 024 1 Unit****Introduction to Piping****Lecture:** 18 contact hours

This course is designed to give students the fundamental skills necessary to work with various types of piping on the job site. The material covered in this course is copper and plastic piping and an introduction to ferrous metal piping practices.

Associate Degree Applicable**MACH 025 3 Units****General Machine Shop****Lecture:** 18 contact hours**Lab:** 108 contact hours

This introductory course instructs students in the basic set up and operating of the lathe, mill, saw, drill press, and grinder. Students will also learn safety, blueprint reading, measurement, shop math, tool grinding, and speed and feed calculations needed in machine shops.

Associate Degree Applicable**MACH 026 1 Unit****Valve Maintenance and Testing****Lecture:** 18 contact hours

This course is designed to give students the fundamental maintenance knowledge necessary to work with various types of valves and perform basic hydrostatic and pneumatic testing on the jobsite.

Associate Degree Applicable**MACH 028 1 Unit****Introduction to Bearings****Lecture:** 18 contact hours

This course is designed to give students the fundamental knowledge necessary to work with various types of bearings on the jobsite.

Associate Degree Applicable**MACH 029 1 Unit****Basic Layout for Industrial Maintenance****Lab:** 54 contact hours

This course is designed to give students the fundamental skills necessary to do basic on-the-job layout for machinery repair and installation.

Associate Degree Applicable**MACH 030 2 Units****Introduction to Steam Systems****Lecture:** 36 contact hours

This course is designed to give students the fundamental knowledge necessary to work with various types of steam systems commonly found on the jobsite.

Associate Degree Applicable

MACH 032 1 Unit**Distillation Towers and Vessels****Lecture:** 18 contact hours

This course is designed to give students the fundamental knowledge necessary to work with various types of distillation towers and vessels commonly found on the jobsite.

Associate Degree Applicable**MACH 034 1 Unit****Heaters and Cooling Towers****Lecture:** 18 contact hours

This course is designed to give students the fundamental knowledge necessary to work with various types of heaters, furnaces, heat exchanges, cooling towers and fin fans commonly found on the jobsite.

Associate Degree Applicable**MACH 040 3 Units****Intermediate Three-Dimensional Computer Modeling****Lecture:** 18 contact hours**Lab:** 108 contact hours**Prerequisite:** MACH 075

This course covers intermediate concepts and development of three-dimensional solid modeling and solid assembly modeling using a Computer Aided Drafting (CAD) solid modeling program.

Associate Degree Applicable**MACH 041 4 Units****Advanced Mechanical Design Applications****Lecture:** 36 contact hours**Lab:** 108 contact hours**Prerequisite:** ARCH 130 and MACH 075 and MACH 040

This course covers advanced modeling of machine parts in the various stages of manufacturing with required back-up items such as jigs, fixtures, weldments, tooling, molds and dies.

Associate Degree Applicable**MACH 042 3 Units****Mechanical Design and Drafting I****Lecture:** 18 contact hours**Lab:** 108 contact hours**Prerequisite:** ARCH 130 and MACH 075

This course covers the production of engineering drawings with primary orthographic views, section views, detail views and auxiliary views. Students will also become familiar with detailing of drawing views including dimensions, notes/labels and drawing formats.

Associate Degree Applicable**MACH 043 4 Units****Mechanical Design and Drafting II****Lecture:** 36 contact hours**Lab:** 108 contact hours**Prerequisite:** ARCH 130 and MACH 075 and MACH 042

This course covers advanced drawing techniques with a focus on mechanical applications. Advanced documentation/design practices including ASME Y14.5 tolerancing, symbol libraries, bills of material, and interface automation will be covered.

Associate Degree Applicable**MACH 050 1 Unit****Electrical Safety and Hand Bending****Lecture:** 18 contact hours

This course covers safety rules as applied to handling and working with electrical systems and circuits including methods and procedures used in cutting, bending, and reaming conduit.

Associate Degree Applicable**MACH 052 1 Unit****Fasteners and Electrical Theory****Lecture:** 18 contact hours

This course covers basic electrical theory and applications and installation procedures for various types of fasteners and anchors used in electrical systems and circuits.

Associate Degree Applicable**MACH 054 2 Units****National Electrical Code (NEC) and Electrical Test Equipment****Lecture:** 36 contact hours

The course covers the application of electrical test equipment, the National Electrical Code (NEC), and raceway-fittings and accessories.

Associate Degree Applicable**MACH 058 1 Unit****Electrical Print Reading and Wiring****Lecture:** 18 contact hours

This course covers the application of electrical print reading and the wiring of switches and receptacles used in residential, and commercial electricity.

Associate Degree Applicable**MACH 060 1 Unit****Electrical Performance Testing****Lab:** 54 contact hours**Prerequisite:** MACH 050 and MACH 052 and MACH 054 and MACH 058

In this course students will have the opportunity to demonstrate the skills learned in the classroom under the guidance of journeyman and/or qualified personnel on the jobsite.

Associate Degree Applicable**MACH 061 4 Units****Jig and Fixture Machining****Lecture:** 54 contact hours**Lab:** 54 contact hours**Advisory:** MACH 021 and MACH 090

This course includes the study of jig and fixture, design, and machining. Techniques to support conventional and computer numerical control (CNC) machining processes to improve manufacturing efficiency and productivity are explored.

Associate Degree Applicable**MACH 062 3 Units****Computer Numerical Control Wire Electric Discharge Machine Set Up****Lecture:** 18 contact hours**Lab:** 108 contact hours**Prerequisite:** MACH 160

This course provides the student with instruction in the concepts and practices associated with the set up, operation, and programming of Computer Numerical Control (CNC) Wire Electrical Discharge Machines (EDM).

Associate Degree Applicable**MACH 070 3 Units****Computer Numerical Control Programming (CNC) I****Lecture:** 18 contact hours**Lab:** 108 contact hours**Advisory:** TECALC 087 and MACH 090

This course focuses on basic numerical control programming and emphasizes math used for toolpath geometry, and the use of a computer CNC Software simulator for verifying toolpath geometry calculations.

Associate Degree Applicable

MACH 071 3 Units**Computer Numerical Control Programming II****Lecture:** 18 contact hours**Lab:** 108 contact hours**Prerequisite:** MACH 070

This is an intermediate Computer Numerical Control (CNC) programming course which focuses on manual coding of various machine tool control languages. It includes programming concepts, and hands on manual programming to manufacture parts using Fanuc, Haas, and Mazak CNC machine tools.

Associate Degree Applicable**MACH 072 3 Units****Computer Aided Design and Manufacturing Programming I****Lecture:** 18 contact hours**Lab:** 108 contact hours

This course includes the study and use of Mastercam software with emphasis on drawing 2-D models, construction and part design basics related to 2-D models, and part programming for Computer Numerical Control (CNC) lathes and mills.

Associate Degree Applicable**MACH 073 3 Units****Computer Aided Design and Manufacturing Programming II****Lecture:** 18 contact hours**Lab:** 108 contact hours**Prerequisite:** MACH 072

This course includes the study and use of Mastercam software, 3-D mill, solids, and lathe programming. Speeds, feeds, and tool path programming for generating G- code of complex surfaces are explored.

Associate Degree Applicable**MACH 074 3 Units****Computer Numerical Control (CNC) Machining Setup and Operation****Lecture:** 18 contact hours**Lab:** 108 contact hours

This is an introductory course designed to teach the fundamental skills related to the setup and operation of Computer Numerically Controlled (CNC) machine tools. Safety, tool selection, speeds and feeds, machine and controller functions, and calculation and input of offsets, are also included.

Associate Degree Applicable**MACH 075 3 Units****Introduction to Three-Dimensional Computer-Aided Design (3D-CAD)****Lecture:** 18 contact hours**Lab:** 108 contact hours

This course is an introduction to Computer Aided Design/SolidWorks (CAD) with emphasis on industry standards in preparation for certification in SolidWorks Associates (CSWA) Exam. Students will be introduced to 2-D drafting practices and techniques as well as 3-D solid modeling, using SolidWorks and its application in design and rapid prototyping.

Associate Degree Applicable**MACH 076 3 Units****Computer Numerical Control (CNC) Parts Programming and Machining****Lecture:** 18 contact hours**Lab:** 108 contact hours**Prerequisite:** MACH 074

This course covers manual programming techniques, calculations, and program development for Computer Numerical Control (CNC) mills, machining centers, and lathes. Up to three axis of control will be discussed. Students will test part programs on Computer Numerical Control (CNC) machines during laboratory hours.

Associate Degree Applicable**MACH 077 3 Units****Advanced Computer Numerical Control (CNC) Machining****Lecture:** 18 contact hours**Lab:** 108 contact hours**Prerequisite:** MACH 076

This course provides students with advanced instruction and practice in the concepts and practices associated with programming and set up of Computer Numerical Control (CNC) mills and lathes. Students will build upon prior experience with CNC machines to complete finished parts on Computer Numerical Control (CNC) mills and lathes having various control types. Students will run programs and practice set-up processes during lab time.

Associate Degree Applicable**MACH 078 3 Units****Multiple Axis Computer Numerical Control (CNC) Set-Up and Operation Machining****Lecture:** 18 contact hours**Lab:** 108 contact hours**Prerequisite:** MACH 077

This course provides students with instruction associated with the programming and set up of Computer Numerical Control (CNC) mills with four and five axis of control. Students will build upon prior experience with Computer Numerical Control (CNC) machines to complete finished parts on Computer Numerical Control (CNC) mills with four and five axis of control. Students will run programs and practice set-up processes during the laboratory.

Associate Degree Applicable**MACH 090 3 Units****Mechanical Print Reading****Lecture:** 36 contact hours**Lab:** 54 contact hours

This course is a study in print interpretation with an emphasis on terminology. It also includes sketching, precision metrology, and concepts related to mechanical drawing standards, language of the American Society of Mechanical Engineers (ASME) Y14 series 2014, and how these apply to the mechanical print inspection processes.

Associate Degree Applicable**MACH 091 2 Units****Geometric Dimensioning & Tolerancing****Lecture:** 36 contact hours**Prerequisite:** MACH 090

This course covers Geometric Dimensioning and Tolerancing interpretation and use of ANSI Y14.5M standards applied to prints regarding industry and government standards.

Associate Degree Applicable**MACH 098 1-4 Units****Machinist Technology Work Experience****WRKEX:** 300 contact hours

This course involves supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. Students work 5-20 hours per week to earn units using the following formula: For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. Students MUST be working for pay or volunteer before registering for a Work Experience class. NOTE: Only one section of Work Experience may be taken during a semester.

MACH 120 2 Units**Machine Shop Theory****Lecture:** 36 contact hours

This is a lecture course with instruction in the fundamentals of industrial processes and machines that are required of the machinist. Shop safety practices, job planning, feeds and speeds, layout tools, hand tools, bench work, and metal-cutting machines are covered.

Associate Degree Applicable**Transfers to CSU only****MACH 123 4 Units****Machine Shop III****Lecture:** 18 contact hours**Lab:** 162 contact hours**Advisory:** MACH 022

This course includes intermediate machine shop practices. Emphasis is placed on set up of machine tool accessories: steady rests, vises, rotary tables, indexers, and precision grinding accessories: precision vice, punch former, surface grinder radius dresser. At the completion of the course, students may qualify for National Institute for Metalworking Skills (NIMS).

Associate Degree Applicable**Transfers to CSU only****MACH 124 4 Units****Machine Shop IV****Lecture:** 18 contact hours**Lab:** 162 contact hours**Advisory:** MACH 123

This course includes advanced machine shop practices. Emphasis is placed on high precision with low tolerance manufacturing, advanced math applications, special tool grinding, part indexing, and carbide applications. At the completion of the course, students should have completed the National Institute for Metalworking Skills (NIMS) certification competency tests in Manual Milling and Grinding Skills I.

Associate Degree Applicable**Transfers to CSU only****MACH 129 3 Units****Manufacturing Processes****Lecture:** 54 contact hours

The course is designed to provide a basic understanding of the manufacturing process: need, scope, advantages, limitation, economics, application, materials, and manufacturing. An overview of different methods for industrial materials manufacturing processes including casting, imaging and coating, molding, forming, machining, joining, and additive manufacturing will be covered.

Associate Degree Applicable**Transfers to CSU only****MACH 160 4 Units****Tool and Die****Lecture:** 18 contact hours**Lab:** 162 contact hours**Advisory:** MACH 075 and MACH 120 and MACH 123

This course includes the study and design of tool and die making processes; die cutting and forming; power presses dies for stamping and forming metal parts; and standards as outlined in the National Institute for Metalworking Skills (NIMS) standards.

Associate Degree Applicable**Transfers to CSU only****MACH 600 Noncredit****Conventional Machine Lab****Lecture:** 54 contact hours

This noncredit laboratory course provides practice on machine shop equipment. Students will work on individual projects which they will retain for their use. Training received in this course develops an ability to visualize and perform various functions necessary in the machine trade.

MACH 601 Noncredit**Computer Numerical Control (CNC) Lab****Lecture:** 9 contact hours

This noncredit laboratory course provides practice on CNC machine shop equipment. Students will work on individual projects which they will retain for their use. Training received in this course develops an ability to visualize and perform various functions necessary in the machine trade.

Mathematics (MATH)

MATH 090 4 Units**Elementary Algebra****Lecture:** 72 contact hours

This course includes the basic concepts typically introduced in high school algebra, including operations on polynomials, exponents, solving linear and quadratic equations, linear inequalities, system linear of equations, word problems, factoring, rational expressions, and graphing linear equations.

Associate Degree Applicable**MATH 095 4 Units****Intermediate Algebra****Lecture:** 72 contact hours

This course includes finding solutions to quadratic equations and inequalities, rational exponents and radicals, solving linear systems of equations and inequalities, functions, exponential and logarithm functions, and application problems.

Associate Degree Applicable**MATH 096 5 Units****Elementary and Intermediate Algebra****Lecture:** 90 contact hours

This combined course in algebra includes the concepts typically introduced in Elementary and Intermediate Algebra. This course includes factoring, rules of exponents, operations on polynomials, rational expressions, and radical expressions. Topics also consist of finding solutions to equations, such as linear, quadratic, rational, radical, exponential and logarithmic. Additional topics include inequalities (linear, quadratic, and rational), solving linear systems of equations and inequalities, functions, and application problems.

Associate Degree Applicable**MATH 102 4 Units****College Algebra****Lecture:** 72 contact hours

Prerequisite: MATH 095 or MATH 096 or eligibility for MATH 102 as determined through the SBVC assessment process.

This course is designed for students with a strong foundation in algebra. It includes the study of polynomial rational functions and inequalities, exponential and logarithmic functions, conics, systems of nonlinear equations and inequalities, and an introduction to sequences, series, and the Binomial Theorem.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MATH 150/151

MATH 103 4 Units**Plane Trigonometry****Lecture:** 72 contact hours**Prerequisite:** MATH 095 or MATH 096 or eligibility for MATH 103 as determined through the SBVC assessment process.

This course provides a study of trigonometric functions, identities, trigonometric equations, periodicity, graphs of trigonometric functions, inverse trigonometric functions, solving right triangles, solving triangles using the Law of Cosines and Law of Sines, polar coordinates, and an introduction to vectors.

Associate Degree Applicable**Transfers to CSU only****C-ID:** MATH 851**MATH 108 4 Units****Introduction to Probability and Statistics****Lecture:** 72 contact hours**Prerequisite:** MATH 095 or MATH 096 or eligibility for MATH 108 as determined through the SBVC assessment process.

This course is an introduction to probability, descriptive and inferential statistics, with applications to the natural sciences, life science, health science, education, business, economics, and the behavioral sciences.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MATH 110**MATH 115 3 Units****Ideas of Mathematics****Lecture:** 54 contact hours**Prerequisite:** MATH 095 or MATH 096 or eligibility for MATH 115 as determined through the SBVC assessment process.

This course includes sets, propositional logic, inductive reasoning and applications, mathematical patterns, counting methods, and finite probability spaces.

Associate Degree Applicable**Transfers to both UC/CSU****MATH 141 4 Units****Business Calculus****Lecture:** 72 contact hours**Prerequisite:** MATH 095 or MATH 096 or eligibility for MATH 141 as determined through the SBVC assessment process.**Advisory:** MATH 102

This course is a study of calculus techniques with emphasis placed on concepts related to business and management solutions. Additional applications of derivatives and integrals of functions including polynomials, rational, exponential and logarithmic functions are studied.

Associate Degree Applicable**Transfers to both UC/CSU****MATH 151 4 Units****Precalculus****Lecture:** 72 contact hours**Prerequisite:** MATH 102 and MATH 103 or eligibility for MATH 151 as determined through the SBVC assessment process.

This course provides foundational skills to facilitate success in calculus. Topics include polynomials and rational functions, exponential and logarithmic functions, systems of nonlinear equations and inequalities, parametric and polar equations, trigonometric functions, and limits.

Associate Degree Applicable**Transfers to both UC/CSU****MATH 222 1-3 Units****Independent Study in Mathematics****DIR:** 54 contact hours**Prerequisite:** MATH 095 or MATH 096

Students with previous course work in mathematics may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of mathematics. Prior to registration, a written contract must be jointly prepared by the instructor and the student.

Associate Degree Applicable**Transfers to CSU only****MATH 250 4 Units****Single Variable Calculus I****Lecture:** 72 contact hours**Prerequisite:** MATH 151 or eligibility for MATH 250 as determined through the SBVC assessment process.

This is a first course in calculus, including limits, continuity, derivatives of algebraic and transcendental functions, applications of derivatives, antiderivatives, the Fundamental Theorem of Calculus, definite integrals and their applications.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MATH 211/900S**MATH 251 4 Units****Single Variable Calculus II****Lecture:** 72 contact hours**Prerequisite:** MATH 250

This second course in calculus provides further application of definite integrals, differentiation and integration of transcendental functions, techniques of integration, L'Hopital's rule and improper integrals, infinite sequences and series, Taylor and power series, polar and parametric equations.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MATH 221/900S**MATH 252 5 Units****Multivariable Calculus****Lecture:** 90 contact hours**Prerequisite:** MATH 251

This third course in calculus includes vectors, lines, and simple surfaces in three-dimensional space, some linear algebra topics, vector-valued functions, partial derivatives, multiple integrals, line integrals and Green's Theorem, surface integrals and the theorems of Gauss and Stokes.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MATH 230**MATH 265 4 Units****Linear Algebra****Lecture:** 72 contact hours**Prerequisite:** MATH 250

This course provides an introduction to linear algebra that complements advanced courses in calculus. Topics include systems of linear equations, matrix operations, determinants, vectors and vector spaces, eigenvalues and eigenvectors, and linear transformations.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MATH 250/910S

MATH 266 4 Units**Ordinary Differential Equations****Lecture:** 72 contact hours**Prerequisite:** MATH 251**Advisory:** MATH 252

The course is an introduction to ordinary differential equations including both quantitative and qualitative methods as well as applications from a variety of disciplines. Introduces the theoretical aspects of differential equations, including establishing when solution(s) exist, and techniques for obtaining solutions, including, series solutions, and singular points, Laplace transforms and linear systems.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MATH 240/910S**MATH 601 Noncredit****Independent Lab for Fundamental Mathematical Skills****Lab:** 54 contact hours

This noncredit course is offered as a study or review of the fundamental concepts of arithmetic, prealgebra, beginning algebra, and intermediate algebra as appropriate based on individual student needs. The course is intended for students who need to refresh their math skills prior to taking a college level math course.

MATH 602 Noncredit**Support for College Algebra****Lab:** 54 contact hours**Corequisite:** MATH 102

This noncredit course is a review of the prerequisite skills essential for college algebra. This course includes a review of topics covered in elementary and intermediate algebra as appropriate, based on individual student needs. The course is intended for students who need to refresh their math skills while enrolled in a college algebra math course to be used for just in time remediation.

MATH 608 Noncredit**Support for Introductory Statistics****Lab:** 54 contact hours**Corequisite:** MATH 108

This noncredit course is a review of the prerequisite skills essential for statistics. This course includes a review of topics covered in arithmetic and algebra as appropriate, based on individual student needs. The course is intended for students who need to refresh their math skills while enrolled in an introductory statistics course to be used for just in time remediation.

MATH 942 3 Units**Arithmetic****Lecture:** 54 contact hours

This course is a basic skills course in arithmetic including the fundamental operations of whole numbers, fractions, decimals, ratios, proportions, and percents.

MATH 952 4 Units**Prealgebra****Lecture:** 72 contact hours

This course is an introduction to mathematical properties; exponential notation; linear equations in one variable; algebraic word problems; variables; polynomials; and the appropriate operation rules for rational numbers, whole numbers and integers; an emphasis on speaking, listening, reading, and writing in communicable mathematics terminology.

MATH 962 5 Units**Arithmetic and Prealgebra****Lecture:** 90 contact hours

This course is an introduction to mathematical properties, including the fundamental operations of whole numbers, integers, fractions, decimals, ratios, proportions, and percent. Topics also include exponential notation, linear equations in one variable, algebraic word problems, variables, polynomials, and the appropriate operation rules for rational numbers, whole numbers and integers.

Music (MUS)

MUS 100 3 Units**Music Appreciation****Lecture:** 54 contact hours

Advisory: ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course introduces students to music in western civilization and methods of music listening. Included in this course are guidelines for thoughtful music selection, basic musical forms, cross-cultural studies in music, music periods and styles, a discussion of patrons and audiences, careful consideration of the role of women in creating music, history of art music, popular music, world music, and jazz.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 100**MUS 101 3 Units****Music Theory I: Fundamentals****Lecture:** 54 contact hours**Corequisite:** MUS 101LJ

Advisory: ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course studies music terminology, elements of music (pitch, duration, intensity, and timbre), rhythmic analysis, major scales and their key signatures, chromatic scales, intervals, and solfeggio syllables. It is a course designed for the beginning student with a moderate interest in the structure of music. It is also designed for the music major and as such serves as the first in a four-part series of music theory courses.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 120**MUS 101L 1 Unit****Musicianship I****Lab:** 54 contact hours**Corequisite:** MUS 101

Specifically, this course applies the materials studied in Music Theory I through sight-singing (using solfeggio syllables), keyboard skills (the playing of scales and identification of pitches on the keyboard), recognition and performance of intervals, and some ear-training (melodic dictation). This course is the companion course to MUS 101.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 125

MUS 102 3 Units**Music Theory II: Scales and Modes****Lecture:** 54 contact hours**Prerequisite:** MUS 101 and MUS 101L**Corequisite:** MUS 102L

This course is a foundational discussion of analytical and compositional techniques through a progressive study of the following: four-part choral composition (in diatonic harmony) including secondary dominants and other applied chordal structures; basic introduction into contrapuntal writing (two part only), voice leading, additional non-harmonic tones and modulation to relative, parallel and distant keys. It is the second in a four-part series of music theory courses designed for the music major.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 130**MUS 102L 1 Unit****Musicianship II****Lab:** 54 contact hours**Prerequisite:** MUS 101 and MUS 101L**Corequisite:** MUS 102J**Advisory:** MUS 134A

This course continues to focus on the study of musicianship through its components. It explores dictation skills (the notation of aural impressions), the continued use of solfeggio syllables to discern pitches within a tonal framework, keyboard fundamentals, and is designed to elevate the student's level of dictation and musical analysis. It is the companion course to MUS 102.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 135**MUS 104 3 Units****History of Rock and Roll****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course is a chronological survey of rock music styles. Included in the course is a study of the origins and the development of Rock and Roll. The major performing artists, composers, lyricists, promoters and arrangers are all studied. A major aspect of the course is the emphasis on how Rock and Roll has impacted Western culture.

Associate Degree Applicable**Transfers to both UC/CSU****MUS 105 3 Units****American Popular Music****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course traces the social history of America through a study of the eras of popular American music. By examining the various styles, the outstanding musicians and the leading composers exemplary of those styles, this class illustrates how the historical era impacts the music and how the music reflects the historical era. The course begins with a discussion of popular music examining the popular songs of the colonies and the schools of singing that developed. The discussion continues through the music of the Civil War and tracks popular music across the great westward expansion. It concludes with studies of Gospel, Blues, Jazz and ultimately Rock and Roll.

Associate Degree Applicable**Transfers to both UC/CSU****MUS 106 3 Units****History of Jazz****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course is a chronological survey of Jazz forms, styles, and movements. Included in the course is a study of the origins and the development of Jazz. The major performing artists, composers, lyricists and arrangers are all studied. An emphasis is placed on the impact of Jazz on Rock and Roll and Pop Music. Another emphasis is placed on the impact of Classical Music on Jazz as well as the impact that Jazz has had in recent years on Classical Music.

Associate Degree Applicable**Transfers to both UC/CSU****MUS 107 3 Units****Music of the World****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course is a survey of traditional and folk music of the Americas, Europe, Near-Middle-Far East and sub-Saharan Africa. The course includes live and filmed performances and introduces students to the instrumental and vocal techniques, musical structures and performance contexts within selected cultures of these areas. The impact of western influences on these cultures and their music is also discussed in this course.

Associate Degree Applicable**Transfers to both UC/CSU****MUS 108 3 Units****History of Hip Hop Music****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course presents the development of Hip hop as a musical style and cultural movement. Students will examine key figures in Hip hop, institutions, and social settings through readings, electronic media, videos, and live performance. Students will also investigate how Hip hop culture is not only a source of entertainment, but also a medium that analyzes and/or provides commentary regarding social, economic, political, and cultural issues dealing with identity, cultural genocide, misogyny, racism, classism, materialism, freedom of speech, and sexuality.

Associate Degree Applicable**Transfers to both UC/CSU****MUS 117A 1 Unit****Elementary Acoustic Guitar****Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course is a study of basic guitar emphasizing stringing, tuning and fingering. Students must provide their own acoustic guitar.

Associate Degree Applicable**Transfers to both UC/CSU**

MUS 117B 1 Unit**Intermediate Acoustic Guitar****Lab:** 54 contact hours**Prerequisite:** MUS 117A**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course is a study of intermediate guitar emphasizing stringing, tuning and fingering. The development of playing techniques and notation will also be studied. Students must provide their own acoustic guitar.

Associate Degree Applicable**Transfers to both UC/CSU****MUS 117C 1 Unit****Intermediate/Advanced Acoustic Guitar****Lab:** 54 contact hours**Prerequisite:** MUS 117B**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is a study of intermediate/advanced guitar emphasizing stringing, tuning and more complex fingering. The development of playing techniques, notation, reading guitar music and the playing of melodies will also be studied. Students must provide their own acoustic guitar.

Associate Degree Applicable**Transfers to both UC/CSU****MUS 117D 1 Unit****Advanced Acoustic Guitar****Lab:** 54 contact hours**Prerequisite:** MUS 117C**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course is a study of advanced guitar with an emphasis on stringing, tuning and complex fingering. The development of playing techniques, notation, reading guitar music, playing melodies, chord construction, and accompaniment will also be studied. Students must provide their own acoustic guitar.

Associate Degree Applicable**Transfers to both UC/CSU****MUS 121 3 Units****Music History and Literature - Middle Ages Through Baroque****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course provides an overview of the historical development of music from the Middle Ages (1450) through the Baroque Period (1750). Emphasis is placed on appreciation of musical form, and the role of music in a multicultural society relative to historical events.

Transfers to both UC/CSU**C-ID:** MUS 105**MUS 121H 3 Units****Music History and Literature - Middle Ages Through Baroque - Honors****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course provides an overview of the historical development of music from the Middle Ages (1450) through the Baroque Period (1750). Emphasis is placed on appreciation of musical form, and the role of music in a multicultural society relative to historical events. This course is intended for students in the Honors Program, but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 105**MUS 122 3 Units****Music History and Literature - Classic through Contemporary****Lecture:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course provides an overview of the historical development of music from Classicism (1750) to the present. Emphasis is placed on appreciation of musical form, and the role of music in a multicultural society relative to political and artistic events.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 106**MUS 122H 3 Units****Music History and Literature - Classic Through Contemporary - Honors****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course provides an overview of the historical development of music from Classicism (1750) to the present. Emphasis is placed on appreciation of musical form, and the role of music in a multicultural society relative to political and artistic events. This course is intended for students in the Honors Program, but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 106**MUS 123 3 Units****Electronic Music I****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course is an introduction to computer-based music recording using MIDI and digital audio. Course topics include MIDI sequencing software, notation software, basic digital audio, microphones, interfaces, and other hardware used in recording studios.

Associate Degree Applicable**Transfers to CSU only**

MUS 124 3 Units**Electronic Music II****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** MUS 123**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course will cover advanced uses of sequencing software, notation software, digital audio, microphones, interfaces, and other hardware used in recording studios.

Associate Degree Applicable**Transfers to CSU only****MUS 130 3 Units****Elementary Voice****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course is an introduction and progressive study of vocal techniques including muscular aspects and sound of producing properties of the vocal mechanism with emphasis on singing and vocal projection used in speech, drama, and standard vocal literature.

Associate Degree Applicable**Transfers to both UC/CSU****MUS 131 3 Units****Intermediate Voice****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** MUS 130**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course is designed for the singer who has had formal vocal training and wishes to pursue additional training for a career in the vocal arts. Emphasis is on vocal technique, voice quality, expression, style, interpretation, stage presence, and multi-language diction.

Associate Degree Applicable**Transfers to both UC/CSU****MUS 133 1 Unit****Elementary Piano****Lecture:** 9 contact hours**Lab:** 27 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course teaches practical keyboard facility that is applicable for the piano, organ, and electronic keyboard. It emphasizes sight reading, elementary improvisation, harmonization of folk and pop melodies, and leads to performance of simple piano selections.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 170**MUS 134 1 Unit****Intermediate Piano****Lecture:** 9 contact hours**Lab:** 27 contact hours**Prerequisite:** MUS 133**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course focuses on the improvement of keyboard facility and sight reading abilities, utilizing improvisation and harmonization skills through simplified arrangements and original composition. This course will be useful for those desiring to strengthen keyboard skills. (Formerly MUS 134A)

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 171**MUS 135 1 Unit****Advanced Piano****Lecture:** 9 contact hours**Lab:** 27 contact hours**Prerequisite:** MUS 134 and MUS 102 and MUS 102L or an audition with the instructor.**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course focuses on the improvement of keyboard facility and sight-reading abilities. It advances improvisation and harmonization skills. It is primarily concerned with more advanced complex piano works by the master composers: Chopin, Beethoven, Mozart, Brahms and others.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 172**MUS 141X2 0.5 Units****Applied Music I****Lab:** 27 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

Students receive credit for a minimum of one-half hour of weekly private instruction on a musical instrument or voice. Daily laboratory practice, concert and ensemble participation are required. The course is open to all students in the college, with enrollment priority given to music majors. An audition with the director is mandatory for participation in this course. Public performances are mandatory.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 160**MUS 150X4 1 Unit****Mixed Chorus****Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course develops foundational techniques in such aspects of choral music as breathing, posture, tone production, enunciation and musicianship. This ensemble focuses on choral music from a variety of stylistic periods including classical, spiritual, folk and musical theatre. Neither experience nor an audition is necessary. This course may be taken four times.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 180

MUS 152X4 2 Units**Chamber Singers****Lab:** 108 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

In this course, students will study and perform a wide variety of outstanding music literature from all periods suitable to a chamber group, including classical genres and contemporary art music as well as musical theater and opera excerpts. An audition with the director is mandatory. This course may be taken four times.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 180**MUS 153X4 2 Units****Chamber Chorale****Lab:** 108 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This is a small (20) ensemble of singers, each with considerable solo and choral classical music experience. Students will train as both classical vocal soloists and choral musicians. Students will study intonation, sectional balance and choral blending. Repertoire will be entirely classical in nature, in multiple languages and composed specifically with a small intimate sound in mind. An audition with the director is mandatory. This course may be taken four times.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 180**MUS 154X4 2 Units****College Singers****Lab:** 108 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

In this course, students will study and perform a wide variety of outstanding music literature from all periods suitable to a large sized choral ensemble, including music from the Renaissance, Baroque, and Romantic eras. Neither experience nor an audition is necessary. This course may be taken four times.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 180**MUS 156X4 2 Units****Concert Choir****Lab:** 108 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

In the course, students will study and perform a wide variety of outstanding music literature from all periods suitable to a medium to large size chorale, including music of a classical nature from the Renaissance Period to the Twentieth Century. Neither experience nor an audition is necessary. This course may be taken four times.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 180**MUS 158X4 1 Unit****Gospel Choir****Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

Repertoire in the course focuses on the African-American gospel traditions. Historical analysis of the spirituals, as well as vocal and performing techniques are emphasized. An audition with the director is mandatory. This course may be taken four times.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 180**MUS 159X4 2 Units****Theatrical Music Workshop****Lab:** 108 contact hours**Prerequisite:** MUS 130 or MUS 152X4 or MUS 154X4 or MUS 156X4

In this course, students study the art of stage movement as it is paired with acoustical song (singing without amplification). Repertoire for this class consists of Opera, Oratorio, Operetta and Operatics excerpts. Students study characterization and stage movement in both principal and chorus parts. Students participate in costuming, makeup and stagecraft. Students are strongly advised to have some classical vocal training prior to enrollment in this course. This course may be taken four times.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 180**MUS 162X4 1 Unit****Wind Ensemble****Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course is for the study, rehearsal, and public performance of musical literature, with an emphasis on the development of skills needed to perform within an ensemble and be emulated by future teachers. This group is the premier classical instrumental ensemble featuring wind, brass, and percussion instruments. An audition with the director is mandatory for participation in this ensemble. Public performances are mandatory.

Associate Degree Applicable**Transfers to CSU only****C-ID:** MUS 180**MUS 166X4 1 Unit****Concert Band****Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course is for the study, rehearsal, and public performance of musical literature, with an emphasis on the development of skills needed to both perform within an ensemble, and be emulated by future teachers. This group features wind, brass, and percussion instruments; and will rehearse and perform standard band literature. An audition with the director is mandatory for participation in this ensemble.

Associate Degree Applicable**Transfers to CSU only****C-ID:** MUS 180

MUS 170X2 1 Unit**Jazz Improvisation and Theory I****Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course presents the beginning concepts of Jazz improvisation skills and Jazz theory. Emphasis is placed on swing, bebop, and blues. This course is open to instrumentalists and vocalists. An audition with the director is mandatory for participation in this ensemble. (Formerly MUS 170)

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 185**MUS 171X2 1 Unit****Jazz Improvisation and Theory II****Lab:** 54 contact hours**Prerequisite:** MUS 170**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course presents the intermediate to advanced concepts of Jazz improvisation skills and Jazz theory. This is an ensemble with emphasis placed on modal and pentatonic scales, hard bop style, and modern jazz. An audition with the director is mandatory for participation in this ensemble. (Formerly MUS 171)

Associate Degree Applicable**Transfers to both UC/CSU****MUS 180 1 Unit****Instrumental Chamber Music****Lab:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

This course covers the study and performance of instrumental chamber literature. Students will be organized into various chamber music ensembles to prepare, perform, and record assigned literature. An audition with the director is mandatory for participation in this ensemble.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 185**MUS 201 3 Units****Music Theory III: Basic Harmony****Lecture:** 54 contact hours**Prerequisite:** MUS 102 and MUS 102L**Corequisite:** MUS 201L

This course represents a complete study of the diatonic harmonies from the 17th, 18th and 19th centuries. It includes a review of triad formations and the principles of voice-leading. Included in the course is a review study of seventh chords, secondary dominants, non-harmonic tones, realization of figured bass lines and rudimentary formal analysis. It also includes an introduction of augmented-sixth chords, secondary/applied chords, modulation to more remote keys, Neapolitan sixth chords and some chromatic harmony. An important part of this class is the analysis of chorales by J.S. Bach. This course is the third of a four-part series of theory courses and is primarily designed for the music major.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 140**MUS 201L 1 Unit****Musicianship III****Lab:** 54 contact hours**Prerequisite:** MUS 102 and MUS 102L**Corequisite:** MUS 201

This course emphasizes the further development of skills in sight-singing melodies of simple and compound meter, sight singing of multiple part compositions in both major and minor modes, phrases with an anacrusis and intervals beyond the third. The course includes the study of modulating melodies, two-part melodic dictation, the dictation of triads (in all positions) as well as diatonic seventh chords and simple chord progressions. The course will include the study of all existent triads from the major and minor scales and all church modes as they are performed at the keyboard. It is the companion course to MUS 201.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 145**MUS 202 3 Units****Music Theory IV: Harmony****Lecture:** 54 contact hours**Prerequisite:** MUS 201 and MUS 201L**Corequisite:** MUS 202L

The course is a conclusive study of diatonic harmonies, including further work with secondary dominant chord structures, and figured bass line realizations. It also includes an extensive study of ninth chords: complete, incomplete, and dominant ninth. A study of Neapolitan and augmented sixth chords, 9th, 11th, 13th chords as well as a study of 20th century techniques and Impressionism will be undertaken. The class will conclude its study of Bach chorales and other brief forms. This course is the fourth in a four-part series of theory courses designed for the music major and incorporates the concepts from MUS 201.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 150**MUS 202L 1 Unit****Musicianship IV****Lab:** 54 contact hours**Prerequisite:** MUS 201 and MUS 201L**Corequisite:** MUS 202

This course emphasizes further development of skills in sight-singing by the singing of modal melodies, melodies with non-diatonic tones and melodies containing larger intervals. The course includes dictation of melodies with non-diatonic tones as well as modal melodies. Further, dictation of secondary dominants, augmented and Neapolitan sixth chords and modulations to distantly-related keys are included. Rhythmic dictation with changing meters and mini and maxi triplets are studied. This course is the companion course to MUS 202.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 155

MUS 210 3 Units**Conducting****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** MUS 102 or MUS 102L

This course is an introduction to basic conducting techniques including the practice of basic beat patterns, score reading, and rehearsal techniques. It offers an opportunity to learn and apply the techniques needed for group direction and leadership. Also included are sessions in problem solving and decision making with regard to tempo, dynamics, instrumentation, blend, balance, rhythmic and pitch accuracy.

Associate Degree Applicable**Transfers to both UC/CSU****MUS 222 1-3 Units****Independent Study in Music****DIR:** 54 contact hours**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.

Students with previous course work in music may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of music. Prior to registration, a written contract must be prepared. See instructor for details.

Associate Degree Applicable**Transfers to CSU only****MUS 241X2 0.5 Units****Applied Music II****Lab:** 27 contact hours**Prerequisite:** MUS 141x2**Advisory:** ENGL 101 or ENGL 101H or eligibility as determined by the SBVC assessment process.]

Students receive credit for a minimum of one-half hour of weekly private instruction on a musical instrument or voice. Daily laboratory practice, concert and ensemble participation are required. The course is open to all students in the college, with enrollment priority given to music majors.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MUS 160

Nursing (NURS)

NURS 101 2 Units**Application of Critical Thinking to First Level Nursing Practice****Lecture:** 18 contact hours**Lab:** 54 contact hours**Corequisite:** NURS 102 and NURS 104 or NURS 109

This course is designed to facilitate development of critical thinking and the application of first level medical-surgical nursing theory. Included is the analysis of clinical situations, practice of selected first level nursing skills, basic mathematical nursing problems, learning techniques, and use of the nursing process. Graded on a CREDIT/NO CREDIT basis only. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only****NURS 103 1 Unit****Application of Critical Thinking to Second Level Nursing Practice****Lecture:** 9 contact hours**Lab:** 27 contact hours**Corequisite:** NURS 110 or NURS 112

This course is designed to facilitate development of critical thinking and the application of second level medical-surgical and maternity nursing theory. Included is the analysis of clinical situations, practice of selected second level nursing skills, mathematical nursing problems, and use of the nursing process. Graded on a PASS/NO PASS basis only. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only****NURS 130 2 Units****Psychiatric Technician to Professional Nurse Transition****Lecture:** 27 contact hours**Lab:** 27 contact hours

This course prepares Licensed Psychiatric Technician's (LPT) to transition into the Registered Nursing (RN) program. This course is a first-year course that focuses on the nurse's role in the collection of assessment data, identifying the relevance of the data collected, the analysis of patient priorities, the implementation of nursing interventions, and evaluation of patient care for diverse adult patients. This course includes role transition content, nursing process, standards of practice, and critical thinking in nursing. A challenge examination covering first semester foundations nursing content will determine eligibility for placement within the first semester of the program. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only****NURS 140 2 Units****Vocational to Professional Nurse****Lecture:** 18 contact hours**Lab:** 54 contact hours

This course prepares Licensed Vocational Nurses (LVN) to transition into the Registered Nursing (RN) program. This course is a first-year course that focuses on the nurse's role in the collection of assessment data, identifying the relevance of the data collected, the analysis of patient priorities, the implementation of nursing interventions, and evaluation of patient care for diverse adult patients. This course includes role transition content, nursing process, standards of practice, and critical thinking in nursing. A challenge examination covering first semester medical-surgical nursing content will determine eligibility for placement within the first or second semester of the program. Application of KSAs will occur in the hospital, on-campus skills laboratory, and simulation settings. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only**

NURS 150 4 Units**Foundations of Nursing****Lecture:** 36 contact hours**Lab:** 108 contact hours

This course focuses on the nurse's role in the collection of assessment data, identifying the relevance of the data collected, the analysis of patient priorities, the implementation of nursing interventions, and the evaluation of patient care for diverse adults and older adults ages 65 and over by focusing on universal practices including physical assessment, safety, infection control, hygiene, body mechanics, activity/exercise, nutrition, pain management, cultural awareness, communication and documentation. Application of KSAs will occur in the hospital, on-campus skills laboratory, and simulation settings. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only****NURS 151 5 Units****Introduction to Medical Surgical Nursing****Lecture:** 45 contact hours**Lab:** 135 contact hours**Prerequisite:** NURS 150

This course is a first-year course that focuses on the nurse's role in the collection of assessment data, identifying the relevance of the data collected, the analysis of patient priorities, the implementation of nursing interventions, and the evaluation of patient care for diverse adults and adults ages 65 and over, nursing care and administration of medication for patients with the basic healthcare needs in pulmonary, musculoskeletal, cardiovascular, neurological, immunological, gastrointestinal, genitourinary, and endocrine body systems, as well as patients undergoing general surgery and/or requiring wound care. Application of KSAs will occur in the hospital, on-campus skills laboratory, and simulation settings. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only****NURS 160 4 Units****Nursing Care of the Childbearing Family And Newborn****Lecture:** 36 contact hours**Lab:** 108 contact hours**Prerequisite:** NURS 150 and NURS 151**Corequisite:** NURS 161

This course is a first-year nursing course that focuses on the nurse's role in the collection of assessment data, identifying the relevance of data collected, the analysis of patient priorities, the implementation of nursing interventions, and evaluation of patient care for childbearing families. Maternity nursing also focuses on the biophysical aspects of human reproduction, assessment and management of the antepartal, intrapartal, and postpartal periods, and newborn care. Application of KSAs will occur in the hospital, on-campus skills laboratory, and simulation settings. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only****NURS 161 5 Units****Beginning Medical Surgical Nursing****Lecture:** 45 contact hours**Lab:** 135 contact hours**Prerequisite:** NURS 150 and NURS 151**Corequisite:** NURS 160

This is first-year course that focuses on the nurse's role in the collection of assessment data, identifying the relevance of the data collected, the analysis of patient priorities, the implementation of nursing interventions, and evaluation of patient care for diverse adult patients and adults ages 65 and over with selected healthcare needs in respiratory, cardiovascular, neurological, immunological, gastrointestinal, genitourinary, and endocrine body systems. Application of KSAs will occur in the hospital, on-campus skills laboratory, and simulation settings. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only****NURS 201 1 Unit****Application of Critical Thinking to Third Level Nursing Practice****Lecture:** 9 contact hours**Lab:** 27 contact hours**Corequisite:** NURS 200 or NURS 202

This course is designed to facilitate development of critical thinking and the application of third level medical-surgical and pediatric nursing theory. Includes analysis of clinical situations, practice of third level skills, mathematical nursing problems, and use of the nursing process. Graded on PASS/NO PASS basis only. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only****NURS 203 1 Unit****Application of Critical Thinking to Fourth Level Nursing Practice****Lecture:** 9 contact hours**Lab:** 27 contact hours**Corequisite:** NURS 210 and NURS 212

This course is designed to facilitate development of critical thinking and the application of fourth level medical-surgical, psychiatric and critical care nursing theory. Includes analysis of complex clinical situations, NCLEX style test taking practice, complex mathematical nursing problems and use of the nursing process. Graded on PASS/NO PASS basis only. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Transfers to CSU only**NURS 210 2.5 Units****Nursing Care of the Critically Ill****Lecture:** 27 contact hours**Lab:** 54 contact hours**Prerequisite:** NURS 200 and NURS 202

This course is an advanced medical-surgical nursing course with a focus on the application of the nursing process to critically ill adult patients with single or multiple subsystem failure. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only**

NURS 211 3.75 Units**Medical-Surgical Nursing IV****Lecture:** 18 contact hours**Lab:** 148.5 contact hours**Prerequisite:** /**Corequisite:** NURS 210 and NURS 212.

Fourth level medical-surgical nursing focuses on the physiological, psychological, sociocultural, and developmental variables that affect clients. Application of the nursing process is used to manage the nursing care of groups of clients to assist them to attain and maintain their optimum level of wellness. Included are advanced concepts in nursing leadership, home health care, disaster nursing, and aging. Includes preparation for NCLEX (National Council Licensure Examination) examination and explores employment opportunities. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only****NURS 212 2.75 Units****Psychiatric Nursing****Lecture:** 27 contact hours**Lab:** 67.5 contact hours**Prerequisite:** NURS 200 and NURS 202

This is an introduction to psychiatric nursing with a focus on neurobiological theory, suicide, substance abuse, and crisis interventions. Application of the nursing process is used to assist clients with major alterations in the psychological variable to attain and maintain an optimum level of wellness. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only****NURS 217 1 Unit****Advanced Ethical and Legal Aspects of Nursing****Lecture:** 18 contact hours**Prerequisite:** NURS 200 and NURS 202

This course explores ethical, legal and professional aspects of nursing practice. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only****NURS 250 4 Units****Nursing Care of Children and Their Families****Lecture:** 36 contact hours**Lab:** 108 contact hours**Prerequisite:** NURS 160 and NURS 161**Corequisite:** NURS 251

This is a first-year course that focuses on the nurse's role in the collection of assessment data, identifying the relevance of the data collected, the analysis of patient priorities, the implementation of nursing interventions, and evaluation of patient care for diverse pediatric populations and their families. Pediatric nursing also focuses on a family-centered approach to the nursing care of infants and children. Application of KSAs will occur in the hospital, on-campus skills laboratory, and simulation settings. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only****NURS 251 5 Units****Intermediate Medical Surgical Nursing****Lecture:** 45 contact hours**Lab:** 135 contact hours**Prerequisite:** NURS 160 and NURS 161**Corequisite:** NURS 250]

This is a second-year course that focuses on the nurse's role in the collection of assessment data, identifying the relevance of the data collected, the analysis of patient priorities, the implementation of nursing interventions, and evaluation of patient care for diverse adult patients and adults aged 65 and over with selected healthcare needs in neurological, gastrointestinal, respiratory, genitourinary, immunological, cardiovascular, and endocrine diseases. Application of KSAs will occur in the hospital, on-campus skills laboratory, and simulation settings. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only****NURS 260 4 Units****Mental Health Nursing****Lecture:** 36 contact hours**Lab:** 108 contact hours**Prerequisite:** NURS 250 and NURS 251**Corequisite:** NURS 261

This course focuses on the nurse's role in the collection of assessment data, identifying the relevance of the data collected, the analysis of patient priorities, the implementation of nursing interventions, and evaluation of patient care for diverse adult patients and adults aged 65 and over with mental health disorders. Psychiatric nursing also focuses on neurobiological theories, risks and interventions for suicide, substance abuse, and other mental health disorders. Application of KSAs will occur in the hospital, on-campus skills laboratory, and simulation settings. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only**

NURS 261 5 Units**Complex Care and Leadership****Lecture:** 45 contact hours**Lab:** 135 contact hours**Prerequisite:** NURS 250 and NURS 251**Corequisite:** NURS 260

This is a second-year nursing course that builds upon previously learned knowledge, skills and attitudes while focusing on the application of the nursing process, discrimination of data, and identification of care priorities in order to manage complex needs of adults ages 65 and over, critically ill or injured adults with single or multisystem failure. Complex Care and Leadership provides learning opportunities for leadership, community outreach and disaster nursing. Correlated clinical experiences provide the senior student opportunities to assume nursing responsibilities in complex care areas and to function as part of an inter-professional team as a pre-licensed preceptee. Application of knowledge, skills and attitudes (K-S-A) will occur in the hospital, on-campus skills laboratory, and simulation settings. The course also reviews graduate responsibilities for the National Council Licensure Examination (NCLEX) application and professional employment/licensure responsibilities. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE NURSING PROGRAM.

Associate Degree Applicable**Transfers to CSU only****NURS 600 Noncredit****Nursing Assistant Training Program****Lecture:** 60 contact hours**Lab:** 144 contact hours

Students completing the Nursing Assistant Training Program (NATP, NURS 600) course will be prepared to assist the professional nurse in direct client care, undertaking those tasks which are supportive to the care of the stable clients. Limitation on Enrollment: Students must be at least 17 years of age, have a San Bernardino Valley College (SBVC) application on file, are eligible to attend SBVC, have graduated from an accredited high school or equivalent (G.E.D., High School Proficiency Examination), have a CPR certification by American Heart Association.

Oceanography (OCEAN)

OCEAN 101 3 Units**Elements of Oceanography****Lecture:** 54 contact hours**Prerequisite:** ENGL 914 and or placement in ENGL 015 as determined by SBVC assessment process and MATH 942 or placement in MATH 952 as determined by SBVC assessment process.

This course explores the geological processes that created the ocean basins, chemistry of seawater, physical motions of the oceans, and the interrelationships of biological communities with their physical environments. Geospatial analysis of world oceans, including Geographic Information Systems (GIS) and remote sensing, is an integral component of this course. It is recommended that transfer students also enroll in the companion OCEAN 111, Elements of Oceanography Laboratory.

Associate Degree Applicable**Transfers to both UC/CSU****OCEAN 111 1 Unit****Elements of Oceanography Laboratory****Lab:** 54 contact hours**Prerequisite/Corequisite:** OCEAN 101

This hands-on course introduces students to techniques of oceanography, including bathymetry, charts, and methods of studying the physical ocean environment. This course is recommended for students concurrently enrolled in OCEAN 101 or who have successfully completed the course within the last three years.

Associate Degree Applicable**Transfers to both UC/CSU**

OSHA (OSHA)

OSHA 010 1 Unit**Federal OSHA Entry Level: Construction Industry Safety****Lecture:** 9 contact hours**Lab:** 27 contact hours**Advisory:** Federal OSHA requires each student be 18 years of age in order to qualify for an OSHA card.

This course provides entry-level construction workers with information about rights, employer responsibilities, how to identify, abate, avoid and prevent job-related hazards on work sites. It also covers construction safety and health hazards that may be encountered on jobs and emphasizes hazard identification and control to prevent illness, injury, or death. Completers may qualify for the Federal OSHA, minimum 10-hour, Construction card.

Associate Degree Applicable**OSHA 015 1 Unit****Federal OSHA Entry-Level: General Industry Safety****Lecture:** 9 contact hours**Lab:** 27 contact hours**Advisory:** Federal OSHA requires each student be 18 years of age in order to qualify for an OSHA card.

This course provides entry-level general industry workers with basic information about rights, employer responsibilities, how to identify, abate, avoid and prevent job-related hazards on a job site. Emphasizes hazard identification, avoidance, control and prevention of illness, injury, or death. Completers may qualify for the Federal OSHA minimum 10-hour card.

Associate Degree Applicable**OSHA 030 2 Units****Federal OSHA Outreach: Construction Industry Safety****Lecture:** 18 contact hours**Lab:** 54 contact hours**Advisory:** Federal OSHA requires each student be 18 years of age in order to qualify for an OSHA card.

This course provides training required by the Occupational Safety and Health Administration (OSHA) for the Federal Outreach Construction Industry, minimum 30-Hour training card. Lessons emphasize hazard identification, avoidance, control and prevention of illness, injury, or death.

Associate Degree Applicable

OSHA 035 2 Units**Federal OSHA Outreach: General Industry Safety****Lecture:** 18 contact hours**Lab:** 54 contact hours**Advisory:** Federal OSHA requires each student be 18 years of age in order to qualify for an OSHA card.

This course provides outreach training and gives general industry workers information about rights, employer responsibilities, how to identify, abate, avoid and prevent job-related hazards on a job site. Lessons will emphasize hazard identification, avoidance, control and prevention of illness, injury, or death. Successful completion may qualify students for the Federal OSHA minimum 30-hour General Industry card.

Associate Degree Applicable

Pharmacy Technology (PHT)

PHT 060 3 Units**Pharmacy System I****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** BIOL 155 or BIOL 250 and BIOL 251 or BIOL 260 and BIOL 261

This class introduces the student to the field of pharmacy, its history, environment, and processes. It emphasizes out-patient/community service pharmacy settings in issues of prescription processing, pharmacy business management, federal laws/regulation, protocol procedures, and pharmacy references/associations for assistance.

Associate Degree Applicable**PHT 062 3 Units****Pharmacology I****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** BIOL 155 or BIOL 250 and BIOL 251 or BIOL 260 and BIOL 261

This course introduces the basic pharmacology principles of pharmacokinetics and pharmacodynamics as it applies the therapeutic uses of medications being administered to the human body systems. The student will identify the medication's classifications, emphasizing basic indications, drug dosages, dosage forms, routes of administration, side effects, special directions of use, and drug interactions with other medications, foods, and/or nutrient supplements.

Associate Degree Applicable**PHT 064 3 Units****Pharmacy Calculations****Lecture:** 54 contact hours

In this course students apply mathematical skills to the calculation of medication dosages, intravenous solutions, and pharmacy operations.

Associate Degree Applicable**PHT 070 3 Units****Pharmacy Systems II****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** PHT 060 and PHT 062 and PHT 064

This course covers the application of advanced preparation, distribution and methods for dispensing medications within a institutional pharmacy setting. It emphasizes advanced concepts of medication order processing, non-sterile compounding, sterile compounding, pharmacy business management, data management, pharmacy safety, and pharmacy error prevention under the supervision of a pharmacist.

Associate Degree Applicable**PHT 071 3 Units****Pharmacology II****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** PHT 062

This course continues to apply the therapeutic uses of administered medications into the human anatomy and physiology by a drug's pharmacokinetics and pharmacodynamics. Emphasis is placed on but not limited to a medication's brand/generic name, mechanisms of action, dosage forms, routes of administration, directions of use, standard dosage schedules, indications, basic side effects, adverse effects, contraindications, precautions, drug interactions, and any special black box warnings. Added topics to the course includes medication adjustments for special populations and use of common antidotes for medications.

Associate Degree Applicable**PHT 072 5 Units****Pharmacy Clinical Experience****Lab:** 270 contact hours**Prerequisite:** PHT 060 and PHT 062 and PHT 064**Corequisite:** PHT 074

In this course, students study the application of prescription processing, inventory management and dispensing of medications in a pharmacy under the direct supervision of a pharmacist. It emphasizes use of a pharmacy database, customer service, communication and professional ethics. Students will complete a minimum of 240 experiential hours in a minimum of one site locations.

Associate Degree Applicable**PHT 074 2 Units****Pharmacy Seminar****Lecture:** 36 contact hours**Prerequisite:** PHT 060 and PHT 062 and PHT 064**Corequisite:** PHT 072

This course reviews the duties of a pharmacy technician in the out-patient/community and the in-patient/institutional setting in the areas of pharmacy management/administration, pharmacy federal laws/regulation, and pharmacology.

Associate Degree Applicable**PHT 601 Noncredit****Pharmacy Technician Licensure Exam Preparation****Lecture:** 18 contact hours

This noncredit course prepares students that have completed or are nearing completion of the Pharmacy Technology program for the state administered licensing examination for pharmacy technicians. This course is also recommended for students who desire refresher training. Topics include, but are not limited to: the duties of a pharmacy technician in the out-patient/community and the in-patient/institutional setting in the areas of pharmacy management/administration, pharmacy federal laws/regulation, and pharmacology. Also included are some basic test-taking techniques to increase proficiency on the state exam.

Philosophy (PHIL)

PHIL 101 3 Units

Introduction to Philosophy

Lecture: 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is a general introduction to the major problems in philosophy, with attention directed to both classical and modern philosophy as a basis for discussion of issues such as epistemology, metaphysics, ethics, and aesthetics.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: PHIL 100

PHIL 101H 3 Units

Introduction to Philosophy - Honors

Lecture: 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 as determined by SBVC assessment process and READ 015.

This course is a general introduction to the major problems of philosophy, with attention directed to classical and modern philosophy as a basis for discussion of issues such as epistemology, metaphysics, ethics, and aesthetics. This course is intended for students in the Honors Program but is open to all students who desire more challenging coursework.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: PHIL 100

PHIL 102 3 Units

Critical Thinking and Writing

Lecture: 54 contact hours

Prerequisite: ENGL 101 or ENGL 101H

This course is an introduction to critical thinking focusing on argument and evidence and the ability to write coherent argumentative essays. Topics include recognition of the structures of reasoning in natural language, the evaluation of such reasoning (including informal fallacies), the uses and abuses of language, and an investigation of the rhetorical devices common in our culture. Students practice critical thinking by writing substantive arguments and essays.

Associate Degree Applicable

Transfers to both UC/CSU

PHIL 103 3 Units

Introduction to Logic: Argument and Evidence

Lecture: 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

Introduction to the techniques of critical thought, including language analysis, inductive and deductive logic, symbolic logic, and the development of the scientific method.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: PHIL 110

PHIL 105 3 Units

Introduction to Ethics

Lecture: 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an introduction to ethics focusing on the analysis of the basic ideas and principles underlying moral conduct. Theories such as utilitarianism, deontology, virtue ethics, and many others will form the basis of the course. Specific ethical problems arising in disciplines such as business, health care, administration of justice, and politics, as well as specific ethical problems confronting individuals, will also be addressed in this course.

Associate Degree Applicable

Transfers to both UC/CSU

C-ID: PHIL 120

PHIL 112 3 Units

Philosophy in Literature

Lecture: 54 contact hours

Prerequisite: ENGL 015 or eligibility for ENGL 101 as determined by SBVC assessment process.

This course addresses ethical and metaphysical themes as presented in literature from the classical to the modern period. Philosophical problems such as freedom and determinism, the nature of virtue, the meaning of death, and the individual's relationship to the state and the structure of reality are explored through the encounter with novels, plays, short stories, and film.

Associate Degree Applicable

Transfers to both UC/CSU

PHIL 180 3 Units

Death and Dying

Lecture: 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is a study of dying, death, and bereavement. Medical, ethical, legal, philosophical, and religious considerations will be explored. (This course is also offered as RELIG 180).

Associate Degree Applicable

Transfers to both UC/CSU

Physics (PHYSIC)

PHYSIC 101 4 Units

Introductory Physics

Lecture: 54 contact hours

Lab: 54 contact hours

Prerequisite: MATH 095 or MATH 096

Advisory: ENGL 101 or ENGL 101H or READ 100

This is an introductory algebra based physics course. Emphasis is placed on developing an understanding of motion, forces, energy, momentum, waves, light, electricity, magnetism, and concepts of modern physics.

Associate Degree Applicable

Transfers to both UC/CSU

PHYSIC 151 4 Units**General Physics for the Life Sciences I****Lecture:** 54 contact hours**Lab:** 54 contact hours

Prerequisite: MATH 103 or eligibility for MATH 151 or higher as determined by SBVC assessment process and ENGL 101 or ENGL 101H or higher as determined by SBVC assessment process.

Advisory: PHYSIC 101

This is the first course in a two-semester physics sequence designed primarily for students in biology, pharmacology, pre-medicine, physical therapy, and allied health programs. Topics include mechanics, waves, fluids, and thermodynamics. The needed concepts of calculus will be developed and used where appropriate. (Formerly PHYSIC 150A)

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** PHYS 105/100S**PHYSIC 152 4 Units****General Physics for the Life Sciences II****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** PHYSIC 151

This is the second course in a two-semester physics sequence designed primarily for students in biology, pharmacology, pre-medicine, physical therapy, and allied health programs. Topics include electricity, magnetism, optics, and modern physics. The needed concepts of calculus will be developed and used where appropriate. (Formerly PHYSIC 150B)

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** PHYS 110/100S**PHYSIC 202 4 Units****Physics I****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H and MATH 250 and PHYSIC 101

Corequisite: MATH 250. The department highly recommends completing MATH 250 prior to enrollment in PHYSIC 202.

This is a calculus based physics course covering mechanics and oscillations. This course is designed to satisfy the lower division physics requirement for majors in physics, engineering, astronomy, chemistry, geology, computer science and mathematics.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** PHYS 205/200S**PHYSIC 203 4 Units****Physics II****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite/Corequisite:** MATH 251**Prerequisite:** PHYSIC 202

This is a calculus based physics course covering electricity, magnetism, and waves. This course is designed to satisfy the lower division physics requirement for majors in physics, engineering, astronomy, chemistry, geology, computer science and mathematics.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** PHYS 210/200S**PHYSIC 204 4 Units****Physics III****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite/Corequisite:** MATH 251**Prerequisite:** PHYSIC 202**Advisory:** MATH 252

This is a calculus based physics course covering thermodynamics, fluids, optics, and modern physics. This course is designed to satisfy the lower division physics requirement for majors in physics, engineering, astronomy, chemistry, geology, computer science and mathematics.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** PHYS 215/200S**PHYSIC 210 4 Units****Modern Physics****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite:** PHYSIC 201 or PHYSIC 150B and MATH 251

This is a calculus-based physics course in modern physics. Topics include relativity, quantum mechanics, atoms, molecules, condensed matter, nuclear, and particle physics.

Associate Degree Applicable**Transfers to both UC/CSU****PHYSIC 222 1-3 Units****Independent Study in Physics****DIR:** 54 contact hours**Prerequisite:** PHYSIC 101**Advisory:** ENGL 101 or ENGL 101H

Students with previous course work in Physics may do assigned projects involving research and analysis of selected topics. The independent study is for students who are interested in furthering their knowledge of Physics. Prior to registration, a written contract must be prepared jointly by the instructor and the student.

Associate Degree Applicable**Transfers to CSU only**

Police Science (POLICE)

POLICE 001 1.5 Units**Police Academy Preparation****Lecture:** 36 contact hours**Lab:** 8 contact hours

This course is designed to provide the student with the necessary information and guidance to meet the requirements for entry into and completion of the intensive or extended police academy. The course comprehensively covers personal leadership development skills as well as mental and physical preparation strategies fundamental to a successful police academy experience.

Associate Degree Applicable

POLICE 002 24.5 Units**Basic Law Enforcement Academy****Lecture:** 312 contact hours**Lab:** 392 contact hours**Corequisite:** POLICE 100 and POLICE 101 and POLICE 102 and POLICE 103
Advisory: READ 015 or ENGL 015 or eligibility for ENGL 101 as determined by SBVC assessment process and MATH 952.]

Basic training for new law enforcement officers. This course covers but is not limited to leadership, professionalism and ethics, criminal justice system, juvenile law, patrol procedures, domestic violence, traffic enforcement, lifetime fitness, defensive tactics, first aid and CPR, and firearms. ENROLLMENT IS LIMITED TO THOSE STUDENTS WHO MEET STATE SCREENING REQUIREMENTS AS OUTLINED IN THE GOVERNMENT CODE, CALIFORNIA PENAL CODE AND THE COMMISSION ON PEACE OFFICER STANDARDS AND TRAINING ADMINISTRATIVE MANUAL.

Associate Degree Applicable**POLICE 050 0.5 Units****Bicycle Patrol****Lecture:** 8 contact hours**Lab:** 24 contact hours**Prerequisite:** Completion of POLICE 002 and POLICE 100 and POLICE 101 and POLICE 102 and POLICE 103 (POST Regular Basic Course) or CRMJUS 059 and CRMJUS 060 and CRMJUS 061 (Modules I II and III).

This course is designed to give students basic knowledge of the use of the bicycle police patrol and to improve their bicycle riding skills. The course covers physical fitness, nutrition, bicycle-handling skills, range training with bicycle, bicycle maintenance and bicycle rides on and off road.

POLICE 051 1 Unit**Bicycle Patrol - Instructor****Lecture:** 16 contact hours**Lab:** 24 contact hours**Prerequisite:** POLICE 050

Students will learn how to apply the fundamentals of police bicycle patrol for the purpose of training other bicycle patrol officers. The course covers physical fitness, nutrition, bicycle maintenance, instructor development, facilitation skills, and bicycle handling skills.

POLICE 060 1.5 Units**Traffic Collision Investigation - Basic****Lecture:** 32 contact hours**Lab:** 8 contact hours**Prerequisite:** Completion of POLICE 002 and POLICE 100 and POLICE 101 and POLICE 102 and POLICE 103 (POST Regular Basic Course) or CRMJUS 059 and CRMJUS 060 and CRMJUS 061 (Modules I II and III).

This course offers a practical application of how to use report forms and accident investigation terminology together with the study of vehicle code law, court decisions and other traffic related subject matter.

POLICE 061 1.5 Units**Traffic Collision Investigation - Intermediate****Lecture:** 32 contact hours**Lab:** 8 contact hours**Prerequisite:** POLICE 060

This course is designed for experienced traffic collision investigators. Emphasis is on the applications of mathematics and physics to collision analysis, skidmark analysis, scene documentation and evaluation.

POLICE 062 4 Units**Traffic Collision Investigation - Advanced****Lecture:** 72 contact hours**Lab:** 8 contact hours**Prerequisite:** POLICE 060

This course is designed for experienced traffic collision investigators. Emphasis is on the applications of basic mathematics and physics to collision analysis, scene documentation and evaluation.

POLICE 063 4 Units**Traffic Collision Investigation - Reconstruction****Lecture:** 72 contact hours**Lab:** 8 contact hours**Prerequisite:** POLICE 062

This course will investigate and describe various relationships in physics as they relate to traffic collision reconstruction. This course covers auto-pedestrian, bicycle collisions, articulated vehicles, reconstruction methodology, motion analysis, velocity reconstruction and step-by-step reconstruction process.

POLICE 064 1 Unit**Traffic Collision Investigation - Motor Vehicle Inspection****Lecture:** 16 contact hours**Lab:** 24 contact hours**Prerequisite:** POLICE 060

This course is designed to enhance the investigative techniques of a traffic collision investigation. It will show students how to conduct a complete inspection of a motor vehicle from bumper to bumper in order to determine if any of the vehicle systems caused or contributed to the outcome of the collision.

POLICE 065 1 Unit**Driving Under the Influence (DUI)****Lecture:** 24 contact hours**Lab:** 8 contact hours**Prerequisite:** Completion of POLICE 002 and POLICE 100 and POLICE 101 and POLICE 102 and POLICE 103 (POST Regular Basic Course) or CRMJUS 059 and CRMJUS 060 and CRMJUS 061 (Modules I II and III).

This course is designed to provide a student with a better understanding of driving under the influence (DUI) laws. The student will receive information on DUI laws, report writing, courtroom testimony, field sobriety tests and alcohol correlation studies.

POLICE 070 0.5 Units**Firearms****Lecture:** 10 contact hours**Lab:** 14 contact hours

This course satisfies the Commission of Peace Officer Standards and Training (POST) firearms certification for PC 832. Additionally, this course exceeds the State of California firearms safe handling and use certification required from any person purchasing a firearm in California. ENROLLMENT IS LIMITED TO THOSE STUDENTS WHO MEET STATE SCREENING REQUIREMENTS AS OUTLINED IN THE GOVERNMENT CODE, CALIFORNIA PENAL CODE AND THE COMMISSION ON PEACE OFFICER STANDARDS AND TRAINING ADMINISTRATIVE MANUAL.

POLICE 071 1.5 Units**Arrest and Control****Lecture:** 30 contact hours**Lab:** 10 contact hours

This course provides the student with the knowledge and skills necessary to qualify for limited peace officer powers as required by Penal Code Section 832. The course will emphasize laws of arrest, search and seizure, evidence, and the investigative process. This course meets the curriculum standards of the California Board of Corrections and the California Commission on Peace Officers Standards and Training.

POLICE 072 1 Unit**Crisis Intervention and Negotiation****Lecture:** 24 contact hours

Prerequisite: Completion of POLICE 002 and POLICE 100 and POLICE 101 and POLICE 102 and POLICE 103 (POST Regular Basic Course) or CRMJUS 059 and CRMJUS 060 and CRMJUS 061 (Modules I II and III).

This course is designed to provide the student with a better understanding of crisis intervention and appropriate response. The student will receive information on the mental health systems, psychotic disorders, mood disorders, personality disorders, post-traumatic disorder, Alzheimer, and developmental disorders.

POLICE 073 2 Units**Child Abuse Investigation****Lab:** 40 contact hours

Prerequisite: Completion of POLICE 002 and POLICE 100 and POLICE 101 and POLICE 102 and POLICE 103 (POST Regular Basic Course) or CRMJUS 059 and CRMJUS 060 and CRMJUS 061 (Modules I II and III).

This course is designed to provide the student with an overview of the child abuse investigative process. It will focus on child abuse law, psychological factors of the offender, interviewing techniques and responsibilities of the child abuse investigator.

POLICE 074 1 Unit**Gang Awareness****Lecture:** 24 contact hours

Prerequisite: Completion of POLICE 002 and POLICE 100 and POLICE 101 and POLICE 102 and POLICE 103 (POST Regular Basic Course) or CRMJUS 059 and CRMJUS 060 and CRMJUS 061 (Modules I II and III).

This course is designed to provide the student with a better understanding of various gangs in the community. Topics will include: the history of gangs, gang dynamics, gang prosecution and officer safety considerations.

POLICE 075 5 Units**Special Weapons and Tactics (SWAT)****Lecture:** 80 contact hours**Lab:** 40 contact hours

Prerequisite: Completion of POLICE 002 and POLICE 100 and POLICE 101 and POLICE 102 and POLICE 103 (POST Regular Basic Course) or CRMJUS 059 and CRMJUS 060 and CRMJUS 061 (Modules I II and III).LIMITATION ON ENROLLMENT: Students must be selected by their respective law enforcement agency and pass Special Weapons and Tactics Team departmental qualifications prior to registration.

This course is designed for new members of special weapons and tactics teams. It will cover concepts of planning, tactical operations, approach, entry, and search techniques, as well as the use of chemical agents, and weapons. Limitation on Enrollment: Students must be selected by their respective law enforcement agency and pass Special Weapons and Tactics Team departmental qualifications prior to registration.

POLICE 076 3.5 Units**Homicide Investigation****Lecture:** 64 contact hours**Lab:** 16 contact hours

Prerequisite: Completion of POLICE 002 and POLICE 100 and POLICE 101 and POLICE 102 and POLICE 103 (POST Regular Basic Course) or CRMJUS 059 and CRMJUS 060 and CRMJUS 061 (Modules I II and III).

This advanced course will train investigators in the highly specialized field of homicide investigation. It will cover the legal aspects of death investigation, homicide crime scene procedures, autopsy, psychological profiling, criminal psychology, laboratory work, gunshots, asphyxia, drowning, burning, cutting, stabbing, and interviewing techniques.

POLICE 077 3.5 Units**Crime Scene Investigation****Lecture:** 64 contact hours**Lab:** 16 contact hours

This course reviews principles of evidence collection. Course topics will include crime scene examination, recording, gathering trace evidence, collecting and packaging of biological evidence and the use of camera in crime scene investigation. Limitation on Enrollment: Students must be employed in a sworn or civilian position with a law enforcement agency performing duties related to crime scene investigation or be employed as a law enforcement officer.

POLICE 078 1.5 Units**Crime Scene and Forensic Photography****Lecture:** 24 contact hours**Lab:** 16 contact hours

Prerequisite: Completion of POLICE 002 and POLICE 100 and POLICE 101 and POLICE 102 and POLICE 103 (POST Regular Basic Course) or CRMJUS 059 and CRMJUS 060 and CRMJUS 061 (Modules I II and III).LIMITATION ON ENROLLMENT: Students must be employed in a sworn or civilian position with a law enforcement agency performing duties related to crime scene investigation or be employed as a law enforcement officer.

This course provides students with an introduction to forensic photography of crime scene investigation. It examines the methods utilized in crime scene forensic photography including daylight/nighttime photography, impression photography, close-up photography, and video photography.

POLICE 079 1.5 Units**Blood Stain Pattern Analysis****Lecture:** 24 contact hours**Lab:** 16 contact hours

This course provides a basic and fundamental knowledge in the field of bloodstain pattern interpretation and illustrates the scientific principles and practical application of bloods stain patterns. Limitation on Enrollment: Students must be employed in a sworn or civilian position with a law enforcement agency performing duties related to crime scene investigation or be employed as a law enforcement officer.

POLICE 090 1.5 Units**Field Training Officer****Lecture:** 32 contact hours**Lab:** 8 contact hours

Prerequisite: Completion of POLICE 002 and POLICE 100 and POLICE 101 and POLICE 102 and POLICE 103 (POST Regular Basic Course) or CRMJUS 059 and CRMJUS 060 and CRMJUS 061 (Modules I II and III).

This course is designed to provide the student with an understanding of the purpose of the field-training program. This course will focus on the fundamentals of basic training in patrol concepts and procedures.

POLICE 091 1 Unit**Field Training Officer - Update****Lecture:** 18 contact hours**Lab:** 8 contact hours**Prerequisite:** POLICE 090

This course is designed to provide current Field Training Officers with an update on the fundamentals of basic training in patrol concepts and procedures. Students will be updated on the current practices of evaluations, legal aspects, vehicle pursuits, weapons, building searches, prisoner restraints, and the use of force.

POLICE 092 4 Units**Police Supervision****Lecture:** 80 contact hours

Prerequisite: Completion of POLICE 002 and POLICE 100 and POLICE 101 and POLICE 102 and POLICE 103 (POST Regular Basic Course) or CRMJUS 059 and CRMJUS 060 and CRMJUS 061 (Modules I II and III).

This course covers police supervision techniques including problems of leadership and responsibilities, performance evaluation, instructional and disciplinary methods, motivation, and psychological aspects of supervision. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE SUCCESSFULLY COMPLETED PROGRAM PREREQUISITES.

POLICE 093 2 Units**Civilian Supervision****Lecture:** 40 contact hours

In this course, students will learn supervisory techniques of non-sworn law enforcement employees including clerical, maintenance, janitorial and auto mechanics. The class includes problems of leadership and responsibilities, performance evaluation, instructional and disciplinary methods, motivation, and psychological aspects of supervision. Limitation on Enrollment: Students must be employed in a civilian position with a law enforcement agency performing duties of a first-line supervisor or be selected by their respective law enforcement agency.

POLICE 094 1.5 Units**Academy Instructor Certificate Program (AICC)****Lecture:** 25 contact hours**Lab:** 15 contact hours

Prerequisite: Completion of POLICE 002 and POLICE 100 and POLICE 101 and POLICE 102 and POLICE 103 (POST Regular Basic Course) or CRMJUS 059 and CRMJUS 060 and CRMJUS 061 (Modules I II and III).

This course is designed to provide instruction for Peace Officer Standards and Training (POST) academy instructors in adult learning principles including instructional planning skills, presentation and facilitation techniques.

POLICE 095 1 Unit**Force Option Simulator Instructor****Lecture:** 10 contact hours**Lab:** 30 contact hours

Prerequisite: Completion of POLICE 002 and POLICE 100 and POLICE 101 and POLICE 102 and POLICE 103 (POST Regular Basic Course) or CRMJUS 059 and CRMJUS 060 and CRMJUS 061 (Modules I II and III).

This course is designed as a "train the trainer" class and meets all requirements for Peace Officer Standards and Training (POST) force options simulator instructor certification. This class will provide the trainer with an in-depth understanding of scenario-based training, increase their knowledge of federal and state laws governing use of force, and increase their knowledge of case laws and department policies regarding use of force.

POLICE 096 1 Unit**Firearms Instructor Course****Lecture:** 10 contact hours**Lab:** 30 contact hours

Prerequisite: Completion of POLICE 002 and POLICE 100 and POLICE 101 and POLICE 102 and POLICE 103 (POST Regular Basic Course) or CRMJUS 059 and CRMJUS 060 and CRMJUS 061 (Modules I II and III).

This course is designed to prepare the student with the fundamentals of teaching law enforcement firearms techniques to others and to create and administer a safe and quality firearms training program. Part of the training includes various shooting styles, updates, and instruction on the most effective contemporary techniques used in law enforcement today. How to diagnose shooting problems through target analysis, and how to properly correct the problems will be covered as well.

POLICE 100 3 Units**Criminal Law****Lecture:** 54 contact hours**Corequisite:** POLICE 002 POLICE 101 POLICE 102 and POLICE 103.]

Advisory: READ 015 and ENGL 015 or eligibility for ENGL 101 as determined by SBVC assessment process and MATH 952.

This course analyses property crimes, crimes against persons, crimes against children, child abuse reporting, sex crimes, crimes against the judicial system, weapons violations, relevant laws and court decisions and crimes against the public peace. This course will focus on the relationship between criminal law and the criminal justice system. Classification of crimes and their application to the criminal justice system will also be covered in the course. THIS COURSE IS LIMITED TO STUDENTS WHO HAVE SUCCESSFULLY MET STATE SCREENING REQUIREMENTS: POSSESSION OF A CALIFORNIA DRIVER'S LICENSE WITHOUT RESTRICTIONS, OTHER THAN REQUIRED EYEGLASSES OR CONTACT LENSES AND POSSESSION OF A CURRENT LETTER OF CLEARANCE ISSUED BY THE CALIFORNIA DEPARTMENT OF JUSTICE THAT CERTIFIES THE RIGHT TO BE IN POSSESSION OF A FIREARM.

Associate Degree Applicable**Transfers to CSU only****POLICE 101 3 Units****Procedure and Evidence****Lecture:** 54 contact hours**Corequisite:** POLICE 002 and POLICE 100 and POLICE 102 and POLICE 103]

Advisory: READ 015 and ENGL 015 or eligibility for ENGL 101 as determined by SBVC assessment process and MATH 952.

This course will address a peace officer's authority, liability and responsibility to make a lawful arrest, and current search and seizure laws. It includes the origin, development, philosophy, and constitutional basis of evidence; rules and procedures governing admissibility and judicial decisions interpreting individual rights. ENROLLMENT IS LIMITED TO THOSE STUDENTS WHO MEET THE SCREENING REQUIREMENTS AS OUTLINED IN THE GOVERNMENT CODE, CALIFORNIA PENAL CODE AND THE COMMISSION ON PEACE OFFICER STANDARDS AND TRAINING ADMINISTRATIVE MANUAL.

Associate Degree Applicable**Transfers to CSU only**

POLICE 102 3 Units**Community Policing****Lecture:** 54 contact hours**Corequisite:** POLICE 002 and POLICE 100 and POLICE 101 and POLICE 103
Advisory: READ 015 and ENGL 015 or eligibility for ENGL 101 as determined by SBVC assessment process and MATH 952.

This course addresses the origin, concepts and philosophy of community policing, and victim awareness and the development of positive relationships with the public. It includes cultural diversity and discrimination. ENROLLMENT IS LIMITED TO THOSE STUDENTS WHO MEET THE SCREENING REQUIREMENTS AS OUTLINED IN THE GOVERNMENT CODE, CALIFORNIA PENAL CODE AND THE COMMISSION ON PEACE OFFICER STANDARDS AND TRAINING ADMINISTRATIVE MANUAL.

Associate Degree Applicable**Transfers to CSU only****POLICE 103 3 Units****Introduction to Criminal Investigation****Lecture:** 54 contact hours**Corequisite:** POLICE 002 and POLICE 100 and POLICE 101 and POLICE 102.
Advisory: READ 015 and ENGL 015 or eligibility for ENGL 101 as determined by SBVC assessment process and MATH 952.

This course will address the examination of crime, evidence and police procedures in investigating crime. This includes documenting, recording and preserving evidence found at crime scenes. ENROLLMENT IS LIMITED TO THOSE STUDENTS WHO MEET SCREENING REQUIREMENTS AS OUTLINED IN THE GOVERNMENT CODE, CALIFORNIA PENAL CODE AND THE COMMISSION ON PEACE OFFICER STANDARDS AND TRAINING ADMINISTRATIVE MANUAL.

Associate Degree Applicable**Transfers to CSU only**

Political Science (POLIT)

POLIT 100 3 Units**American Politics****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 as determined by SBVC assessment process and READ 015.

This course is a basic introduction to American politics that is designed to meet requirements in United States and California constitution and government with primary emphasis on the American national government. Topics covered include the political philosophy of democracy and constitutionalism; the specific provisions of the United States Constitution and Bill of Rights; the operations of national political institutions including Congress, the President, and the Supreme Court; the role of political parties; and an overview of California government and politics.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** POLS 110**POLIT 110 3 Units****Introduction to Political Theory****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is a survey of Western political thought from classical times to the contemporary period. The course explores such controversial topics as the nature of justice, the morality of political deception and violence, the proper limits of governmental power, the virtues (and challenges) of political diversity, and the future of the bourgeois state in an era of globalization.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** POLS 120**POLIT 110H 3 Units****Introduction to Political Theory - Honors****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is a survey of Western political thought from classical times to the contemporary period. The course utilizes selected primary texts to explore such controversial topics as the nature of justice, the morality of political deception and violence, the proper limits of governmental power, the virtues (and challenges) of political diversity, and the future of the bourgeois state in an era of globalization. This course is intended for students in the Honors Program but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** POLS 120**POLIT 138 3 Units****Service Learning: Student Leadership****Lecture:** 18 contact hours**Lab:** 108 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is a service-learning course designed for the development of leadership skills through participation in student government or other campus activities. The topics covered include community college governance, collaborative problem solving, student issues, methods of effective advocacy, parliamentary procedures, relevant laws, and the challenges and opportunities of social diversity.

Associate Degree Applicable**Transfers to CSU only****POLIT 138H 3 Units****Service Learning: Student Leadership - Honors****Lecture:** 18 contact hours**Lab:** 108 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is a service-learning course designed for the development of leadership skills through participation in student government or other campus activities. The topics covered include community college governance, collaborative problem solving, student issues, methods of effective advocacy, parliamentary procedures, relevant laws, and the challenges and opportunities of social diversity. This course is intended for students in the Honors Program but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to CSU only**

POLIT 139 3 Units**Service Learning: Community Leadership****Lecture:** 18 contact hours**Lab:** 108 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is a service-learning course designed for the development of leadership skills through participation in community affairs on the federal, state, and local levels. The topics covered include street-level politics, coalition-building, direct and indirect lobbying, mass media communications, multicultural relations, legal requirements, and other aspects of civic involvement.

Associate Degree Applicable**Transfers to both UC/CSU****POLIT 139H 3 Units****Service Learning: Community Leadership - Honors****Lecture:** 18 contact hours**Lab:** 108 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is a service-learning course designed for the development of leadership skills through participation in community affairs on the federal, state, and local levels. The topics covered include street-level politics, coalition-building, direct and indirect lobbying, mass media communications, multicultural relations, legal requirements, and other aspects of civic involvement. This course is intended for students in the Honors Program but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****POLIT 140 3 Units****Introduction to Comparative Politics****Lecture:** 54 contact hours**Advisory:** READ 100 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process

This introductory course compares different political systems to evaluate their similarities and dissimilarities with respect to their corresponding political institutions and processes. Themes covered include presidential versus parliamentary democratic governance; authoritarian versus democratic regimes; patterns of state involvement in the political economy; society and citizen participation through interest groups, political parties and elections.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** POLS 130**POLIT 141 3 Units****Introduction to World Politics****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This introductory course in world politics (international relations) surveys the principal actors, issues and processes involved in international relations. It includes paradigms and approaches in the study of world politics; foreign policy; issues of war and peace; international organizations; international law; globalization; international political economy, including global financial and trade institutions; human rights; and the global environment with respect to sustainable development.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** POLS 140**POLIT 141H 3 Units****Introduction to World Politics - Honors****Lecture:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This introductory course in world politics (international relations) surveys the principal actors, issues and processes involved in international relations. It includes paradigms and approaches in the study of world politics; foreign policy; issues of war and peace; international organizations; international law; globalization; international political economy, including global financial and trade institutions; human rights; and the global environment with respect to sustainable development. This course is intended for students in the Honors Program but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** POLS 140**POLIT 222 1-3 Units****Independent Study in Political Science****DIR:** 162 contact hours

Students with previous course work in Political Science may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of Political Science and related fields. Student work may include but not be limited to readings, research, projects, intern assignments and conferences. Prior to registration, a contract must be prepared jointly by the instructor and the student.

Associate Degree Applicable**Transfers to CSU only**

Psychiatric Technology (PSYTCH)

PSYTCH 084 17 Units**Introduction to Psychiatric Technology****Lecture:** 180 contact hours**Lab:** 378 contact hours

This course is an introduction to psychiatric technology emphasizing basic therapeutic communication, pharmacology, growth and development, developmental disabilities, behavior modification, nutrition, and nursing care, including application of basic nursing skills to the care of clients with developmental disabilities. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE PSYCHIATRIC TECHNOLOGY PROGRAM.

Associate Degree Applicable**PSYTCH 085 12 Units****Psychiatric Technology: Nursing Science****Lecture:** 126 contact hours**Lab:** 270 contact hours**Prerequisite:** PSYTCH 084

This course is the study of basic nursing science concepts and skills with emphasis on nursing care for pediatric, adult and geriatric clients with medical and surgical disorders. Application of theory to the care of physically ill clients in acute and long-term care agencies. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED THE PROGRAM PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE PSYCHIATRIC TECHNOLOGY PROGRAM.

Associate Degree Applicable

PSYTCH 086 17 Units**Introduction to Psychiatric Technology: Behavioral Science****Lecture:** 180 contact hours**Lab:** 378 contact hours**Prerequisite:** PSYTCH 084

This course is a study of psychiatric mental disorders with emphasis on causes, clinical manifestations, diagnosis, interventions and treatments. Included is the application of mental health theory to the basic nursing care of clients in acute, long-term care, and state mental health institutional settings. REGISTRATION IS LIMITED TO STUDENTS WHO HAVE COMPLETED PREREQUISITES AND HAVE BEEN ACCEPTED INTO THE PSYCHIATRIC TECHNOLOGY PROGRAM.

Associate Degree Applicable**PSYTCH 601 Noncredit****Psychiatric Technology Licensure Exam Preparation****Lecture:** 18 contact hours

This noncredit course prepares students that have completed or are nearing completion of the psychiatric technology program for the state administered licensing examination for psychiatric technicians. This course is also recommended for students who desire refresher training. Topics include, but are not limited to, nursing science – theory and techniques, basic nursing, developmental disabilities, medications, psychiatric mental health nursing. Also included are some basic test-taking techniques to increase proficiency on the state exam.

Psychology (PSYCH)

PSYCH 100 3 Units**General Psychology****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course surveys the nature and scope of psychology as a science. The content focuses on the exploration of psychological theories, concepts, methods, and research findings in psychology. Topics include psychology research design, biological bases of behavior, perception, consciousness, cognition, learning, development, memory, personality, psychological disorders and therapeutic approaches, emotion, motivation, social psychology, and applied psychology.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** PSY 110**PSYCH 100H 3 Units****General Psychology - Honors****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process and ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course surveys the nature and scope of psychology as a science. The content focuses on the exploration of psychological theories, concepts, methods, and research findings in psychology. Topics include psychology research design, biological bases of behavior, perception, consciousness, cognition, learning, development, memory, personality, psychological disorders and therapeutic approaches, emotion, motivation, social psychology, and applied psychology. This course is intended for students in the Honors Program but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** PSY 110**PSYCH 102 3 Units****Personal and Social Adjustment****Lecture:** 54 contact hours**Prerequisite:** PSYCH 100 or PSYCH 100H**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course provides students with an applied focus on how psychology is used in everyday life and is related to other social sciences. This course examines a variety of psychological and theoretical perspectives and how these ideas are applied across a person's life taking into account the influence of factors such as culture, gender, ethnicity, historical cohort, and socio-economic status. A broad understanding of how scientists, clinicians, and practitioners study and apply psychology is emphasized.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** PSY 115**PSYCH 105 4 Units****Statistics for the Behavioral Sciences****Lecture:** 72 contact hours**Prerequisite:** MATH 095 or MATH 096**Advisory:** PSYCH 100 or PSYCH 100H

This class focuses on statistics as applied to the social sciences and includes such topics as measurement, frequency distributions, measures of central tendency, measures of variability, the normal distribution curve, correlation, sampling, statistical inference, hypothesis testing and an introduction to analysis of variance.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** MATH 110/SOC125**PSYCH 110 3 Units****Abnormal Psychology****Lecture:** 54 contact hours**Prerequisite:** PSYCH 100 or PSYCH 100H**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an integrative survey of theory and research in abnormal behavior. The scientific study of psychopathology and atypical behaviors is explored. Abnormal behavior is investigated from a variety of perspectives including biological, psychological, and sociocultural approaches. Intervention and prevention strategies for psychological disorders are also introduced.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** PSY 120**PSYCH 111 3 Units****Developmental Psychology: Lifespan****Lecture:** 54 contact hours**Prerequisite:** PSYCH 100 or PSYCH 100H**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is a survey of lifespan developmental psychology from conception through death, including biological and environmental influences. Theories and research on physical, cognitive, personality, and social development are examined, as well as attention to developmental disturbances and problems.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** PSY 180

PSYCH 112 3 Units**Developmental Psychology: Child and Adolescent Psychology****Lecture:** 54 contact hours**Prerequisite:** PSYCH 100 or PSYCH 100H**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is a survey of the psychological growth of the normal individual from conception through adolescence with emphasis on stages of development. Particular emphasis is given to physical development, intellectual development, social and emotional development during the first two decades of life. Other topics include good and bad parenting styles and the potential problems encountered by children and adolescents.

Associate Degree Applicable**Transfers to both UC/CSU****PSYCH 118 3 Units****Human Sexual Behavior****Lecture:** 54 contact hours**Prerequisite:** PSYCH 100 or PSYCH 100H**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course provides an overview of the field of human sexuality through examining human sexuality from psychological, biological, sociocultural, and historical perspectives. Current sex norms and aspects of interpersonal and individual sexual adjustment will be explored. Students will be encouraged to develop an awareness of their own sexual attitudes, values, and behaviors and to evaluate the consistency of their behaviors within their own moral frameworks.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** PSY 130**PSYCH 141 3 Units****Introduction to Biological Psychology****Lecture:** 54 contact hours**Prerequisite:** PSYCH 100 or PSYCH 100H**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course will introduce the scientific study of the biological bases of behavior and the role of the scientific method in neuroscience. Topics will include basic neuroanatomy and neurophysiology, nervous system structure and functions, hormonal and neurochemical mechanisms, brain-behavior relationships underlying movement, sensation, perception, learning, memory, consciousness, emotion, regulatory processes, and psychological disorders. Historical scientific contributions and current research principles for studying brain-behavior relationships and mental processes will be addressed in this course. Ethical standards for human and animal research will be discussed in the context of both invasive and non-invasive experimental research.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** PSY 150**PSYCH 201 4 Units****Research Methods for the Behavioral Sciences****Lecture:** 72 contact hours**Prerequisite:** PSYCH 100 or PSYCH 100H and MATH 108 or PSYCH 105**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course focuses on various research methods primarily used in the social sciences including such topics as research design, experimental procedures, descriptive methods, instrumentation, and the collection, analysis, interpretation and reporting of research data.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** PSY 200

Reading and Study Skills (READ)

READ 015 4 Units**Preparation for College Reading****Lecture:** 72 contact hours

This course is designed to foster general reading improvement with an emphasis on reading comprehension and vocabulary. Assignments are based on diagnostic tests, which identify strengths and weaknesses in reading comprehension and vocabulary.

Associate Degree Applicable**READ 100 3 Units****College Academic Reading****Lecture:** 54 contact hours**Prerequisite:** READ 015 or eligibility for READ 100 as determined through the SBVC assessment process.

This course is designed to improve reading and learning processes, reading comprehension, and critical thinking strategies as applied to all stages of academic reading. Emphasis will be on the integration and synthesis of academic text.

Associate Degree Applicable**Transfers to CSU only****READ 102 3 Units****Critical Reading As Critical Thinking****Lecture:** 54 contact hours**Prerequisite:** READ 100 or ENGL 101 or ENGL 101H

This course explores the relationship of critical reading and critical thinking with an emphasis on the development of critical thinking skills and the application in the interpretation, analysis, criticism, and advocacy of ideas encountered in academic reading.

Associate Degree Applicable**Transfers to CSU only****READ 620 Noncredit****Reading Skills****Lab:** 54 contact hours

This noncredit, self-paced course is designed for students requiring basic reading skills instruction, including, but not limited to, phonics, dictionary usage, vocabulary development, syllabication, and beginning reading comprehension skills.

Real Estate (REALST)

REALST 062 3 Units

Real Estate Practice

Lecture: 54 contact hours

This course includes the day-to-day operations in real estate, overview of brokerage procedures and the various roles of the employee. The successful completion of this course meets qualifications for salesperson or broker licensing exam.

Associate Degree Applicable

REALST 063 3 Units

Real Estate Loan Processing Fundamentals

Lecture: 54 contact hours

Advisory: REALST 100

This course covers loan processing, specifically the mechanics of mortgage lending with emphasis on ethical practices.

Associate Degree Applicable

REALST 066 3 Units

Computerized Real Estate Loan Processing

Lecture: 54 contact hours

Prerequisite: REALST 100

Advisory: REALST 063

This course is an introduction to real estate computerized loan processing software. This course is intended to assist beginning and current real estate professionals in developing an understanding of the application of computer technology in real estate.

Associate Degree Applicable

REALST 068 3 Units

Real Estate Appraisal: Residential

Lecture: 54 contact hours

Advisory: REALST 100

This course addresses the purpose of appraisals, appraisal process, and the different methods, approaches, and techniques used to determine the value of various types of property. Successful completion of this course meets elective qualification for salesperson or broker licensing approval.

Associate Degree Applicable

REALST 070 3 Units

Real Estate Finance

Lecture: 54 contact hours

Advisory: REALST 100

This course addresses the analysis of real estate financing including lending policies and problems in financing transactions in residential, apartment, commercial and special purpose properties, emphasizing methods of financing. Successful completion of this course meets elective qualification for salesperson or broker licensing approval.

Associate Degree Applicable

REALST 074 3 Units

Legal Aspects of Real Estate

Lecture: 54 contact hours

Advisory: REALST 100

This course is the study of real estate law with emphasis on applications in real estate brokerage and related fields. Successful completion of this course meets elective qualification for salesperson or broker licensing approval.

Associate Degree Applicable

REALST 076 3 Units

Property Management

Lecture: 54 contact hours

Advisory: REALST 100

This course is a study of the history and role of the professional property manager. The topics covered include, leases, lease negotiations, tenant relations (both residential and commercial properties), liability issues, record keeping and thorough management operations.

Associate Degree Applicable

REALST 078 3 Units

Real Estate Economics

Lecture: 54 contact hours

Advisory: REALST 100

This course covers real estate economics as used to analyze national, regional, city and neighborhood trends in an effort to learn what has happened in the past to analyze future trends.

Associate Degree Applicable

REALST 080 3 Units

Escrow Procedures

Lecture: 54 contact hours

This course covers methods and techniques of escrow procedures emphasizing the legal and ethical responsibilities of professionals engaged in escrow and real estate work. (Formerly ESCROW 001)

Associate Degree Applicable

REALST 100 3 Units

Real Estate Principles

Lecture: 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or 101H as determined by the SBVC assessment process and MATH 942 or eligibility for a higher level math class as determined by the SBVC assessment process.

This course includes the fundamentals of real estate including the basic laws and principles of California real estate. This includes the background and terminology necessary for advanced study of real estate. The successful completion of this course meets qualifications for salesperson or broker licensing exam.

Associate Degree Applicable

Transfers to CSU only

REALST 901 3 Units

Real Estate Pre-License

Lecture: 54 contact hours

Advisory: REALST 100

This course is a review for the California Department of Real Estate salespersons license examination. Topics cover California real estate law, property ownership, legal procedures, contract law, appraising, financing and taxation, and real estate practice.

REALST 902 3 Units

Broker's License Review

Lecture: 54 contact hours

Advisory: REALST 100

This course prepares students to take the California Department of Real Estate broker's license examinations. Topics cover California real estate law, property ownership, legal procedures, contract law, appraising, financing and taxation, and real estate practice.

Religious Studies (RELIG)

RELIG 100 3 Units

Introduction to Religious Studies

Lecture: 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an introductory study of religion, with emphasis on religious experience, the origins and function of religion, and the various modes of religious expression. Necessarily broad in scope, this course will draw on Eastern, Western, ancient, and modern religious phenomena to help students understand various religious components, such as myth, ritual, scripture, art, doctrine, and mysticism.

Associate Degree Applicable

Transfers to both UC/CSU

RELIG 100H 3 Units

Introduction to Religious Studies-Honors

Lecture: 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by SBVC assessment process.

This course is an introductory study of religion, with emphasis on religious experience, the origins and function of religion, and the various modes of religious expression. Necessarily broad in scope, this course will draw on Eastern, Western, ancient, and modern religious phenomena to help students understand various religious components, such as myth, ritual, scripture, art, doctrine, and mysticism. This course is intended for students in the Honors Program but is open to all students who desire more challenging coursework.

Associate Degree Applicable

Transfers to both UC/CSU

RELIG 101 3 Units

Introduction to World Religions

Lecture: 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an introduction to the major religious traditions of the world with an emphasis on the beliefs, practices, and histories of Buddhism, Christianity, Confucianism, Hinduism, Islam, Judaism, and Taoism.

Associate Degree Applicable

Transfers to both UC/CSU

RELIG 110 3 Units

Magic, Witchcraft, and Religion

Lecture: 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is a comparative study of spiritual and religious practices, past and present, including magic, witchcraft, shamanism, and totemism. It entails study of syncretism, change, and the role of spiritual and religious practice in society. (This course is also offered as ANTHRO 110).

Associate Degree Applicable

Transfers to both UC/CSU

RELIG 135 3 Units

Religion in America

Lecture: 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an introduction to the diverse expression of religion in the United States. Although limited by the history and geography of one country, the course necessarily draws from religions around the globe to help students understand how religion has grown and developed in the U.S. So, this course deals with a wide variety of expressions of religion, including the Puritans, slave religion, the religious reform movements, the Catholic, Protestant, Jewish, and Muslim communities, the African American religious experience, Eastern religions in America, and contemporary syncretistic religious movements.

Associate Degree Applicable

Transfers to both UC/CSU

RELIG 150 3 Units

Introduction to Mythology

Lecture: 54 contact hours

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an introduction to myth and its function in culture through an examination of creation stories, end-of-the world stories, hero stories, and trickster stories. Although focusing on the narrative expression of religion, this course necessarily draws from many traditions, including Native American, Greek, Roman, European, Islamic, Chinese, Hindu, and Japanese traditions of myth. In addition, this class will examine modern American myths.

Associate Degree Applicable

Transfers to both UC/CSU

RELIG 175 3 Units

The Literature and Religion of the Bible

Lecture: 54 contact hours

Prerequisite: ENGL 101 or ENGL 101H

This course covers The English Bible as literature and as religion including an examination of the types of literature found in the Bible, the historical and religious context in which the literature was developed and an extensive reading of the two testaments. This course is also offered as ENGL 175. RELIG 175 is the transferable equivalent of ENGL 075. A student taking RELIG 175 may not earn credit for ENGL 075.

Associate Degree Applicable

Transfers to both UC/CSU

RELIG 176 3 Units

Jesus and His Interpreters

Lecture: 54 contact hours

Prerequisite: ENGL 015 or eligible for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course is a study of images and interpretations of Jesus with three principle divisions: Jesus and the gospels or biblical tradition; Jesus and the historians, including the quest of historians and theologians for the Jesus of history; and Jesus and the arts (Jesus in art, music, film, and the literary arts, such as novels, poems, and plays.)

Associate Degree Applicable

Transfers to both UC/CSU

RELIG 180 3 Units**Death and Dying****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is a study of dying, death, and bereavement. Medical, ethical, legal, philosophical, and religious considerations will be explored. (This course is also offered as PHIL 180).

Associate Degree Applicable**Transfers to both UC/CSU**

Sociology (SOC)

SOC 100 3 Units**Introduction to Sociology****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process

This course is an introductory study of the basic concepts, theoretical approaches, and methods of sociology. Included in this examination are the social influences on human behavior, social structure, culture, socialization and the self, group dynamics, social stratification, and global patterns, with an emphasis on social institutions.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** SOCI 110**SOC 100H 3 Units****Introduction to Sociology - Honors****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course is an introductory study of the basic concepts, theoretical approaches, and methods of sociology. Included in this examination are the social influences on human behavior, social structure, culture, socialization and the self, group dynamics, social stratification, and global patterns, with an emphasis on social institutions. This course is intended for students in the Honors Program, but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** SOCI 110**SOC 110 3 Units****Social Problems****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an examination of contemporary social issues in the United States including causes, consequences, interventions, and solutions, with an emphasis on social institutions and other topics such as crime, inequalities, substance abuse, and the role of power and ideology in the construction and definitions of social problems.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** SOCI 115**SOC 110H 3 Units****Social Problems - Honors****Lecture:** 54 contact hours**Prerequisite:** ENGL 101 or ENGL 101H

This course is an examination of contemporary social issues in the United States including causes, consequences, interventions, and solutions, with an emphasis on social institutions and other topics such as crime, inequalities, substance abuse, and the role of power and ideology in the construction and definitions of social problems. This course is intended for students in the Honors Program, but is open to all students who desire more challenging work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** SOCI 115**SOC 120 3 Units****Health and Social Justice****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an examination of health and illness in society. There is an emphasis on the social inequalities that stem from unequal living conditions, and social stratification that impact disproportionate health outcomes, health epidemics, and policy development throughout the life course. Organization of the medical system, healthcare access, public health issues, and advocacy related trends and strategies will be studied.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** PHS 102**SOC 130 3 Units****Family Sociology****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an examination of the family as a social institution. Topics include historical and contemporary trends, social stratification, intimacy and relationships, and social forces that influence the family.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** SOCI 130**SOC 135 3 Units****Introduction to Crime****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is a sociological examination of crime, criminality, and deviance in society with a focus on types of deviant and criminal behaviors, history, and patterns in the United States. Topics include sociological theories, definition and measurement of crime, cultural values and norms related to deviance, social inequality, criminal justice system, and the laws and methods used to control crime and deviance.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** SOCI 160

SOC 141 3 Units**Race and Ethnic Relations****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is a sociological examination of racial and ethnic groups. Topics include historical, cultural, political, and economic practices and social institutions that support or challenge racism, and contemporary issues related to racial and ethnic inequalities, and relations in the United States with some focus on global trends.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** SOCI 150**SOC 145 3 Units****Sociology of Gender****Lecture:** 54 contact hours**Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is an examination of the social construction of gender, femininity, and masculinity in the United States. Topics include historical, cross-cultural, and societal forces and change that influence gender socialization, expectations, and practices with an emphasis on social institutions and some focus on global contemporary trends.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** SOCI 140**SOC 150 3 Units****Aging and the Life Course****Lecture:** 54 contact hours

This course is a sociological examination of aging and the life course with an emphasis on aging as a social process. Topics include demographic trends, historical, cross-cultural, political, and economic forces that influence the experience of aging on individuals and families throughout the lifespan, communities, and societies, with some focus on global patterns.

Associate Degree Applicable**Transfers to both UC/CSU**

Spanish (SPAN)

SPAN 101 5 Units**College Spanish I****Lecture:** 90 contact hours

In this course, students will develop the ability to converse, read, and write in Spanish. The course includes the study of essentials of pronunciation, vocabulary, idioms and grammatical structures along with an introduction to the cultures of Spanish speaking countries. This course corresponds to the first two years of high school study.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** SPAN 100**SPAN 101H 5 Units****College Spanish I - Honors****Lecture:** 90 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 and ENGL 101H as determined through the SBVC assessment process.

In this course, students will develop the ability to converse, read, and write in Spanish. The course includes the study of essentials of pronunciation, vocabulary, idioms and grammatical structures along with an introduction to the cultures of Spanish speaking countries. This course corresponds to the first two years of high school study. This course is intended for students in the Honors Program, but it is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** SPAN 100**SPAN 102 5 Units****College Spanish II****Lecture:** 90 contact hours**Prerequisite:** SPAN 101 or SPAN 101H

In this course students continue to develop conversational, reading and writing skills in Spanish with emphasis on past tense verbs, grammar, vocabulary expansion and the culture of Spanish speaking countries.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** SPAN 110**SPAN 102H 5 Units****College Spanish II - Honors****Lecture:** 90 contact hours**Prerequisite:** SPAN 101 or SPAN 101H

In this course students continue to develop conversational, reading and writing skills in Spanish with emphasis on past tense verbs, grammar, vocabulary expansion and the culture of Spanish speaking countries. This course is intended for students in the Honors Program but is open to all students who desire more challenging course work.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** SPAN 110**SPAN 103 4 Units****College Spanish III****Lecture:** 72 contact hours**Prerequisite:** SPAN 102 or SPAN 102H

In this intermediate level course students develop complex conversational, reading and writing skills, with emphasis on the subjunctive and hypothetical situations. This course expands vocabulary in the Spanish language and awareness of Hispanic culture.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** SPAN 200

SPAN 103H 4 Units**College Spanish III - Honors****Lecture:** 72 contact hours**Prerequisite:** SPAN 102 or SPAN 102H

In this intermediate level course students develop complex conversational, reading and writing skills, with emphasis on the subjunctive and hypothetical situations. This course expands vocabulary in the Spanish language and awareness of Hispanic culture. This course is intended for students in the Honors Program but is open to all students who desire more challenging coursework.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** SPAN 200**SPAN 104 4 Units****College Spanish IV****Lecture:** 72 contact hours**Prerequisite:** SPAN 103 or SPAN 103H or SPAN 158

This course develops language skills through reading, discussion, analysis, and writing about culturally representative works from Spain and Latin America. Emphasis is on composition and literature as an expression of culture.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** SPAN 210**SPAN 157 4 Units****Spanish for Heritage Speakers I****Lecture:** 72 contact hours**Advisory:** SPAN 102 or SPAN 102H

This course is intended for students with native or near-native proficiency in spoken Spanish. Reading and writing standard literary Spanish is emphasized. Students will develop an increased understanding of academic vocabulary, grammar, orthography, and punctuation. Oral proficiency will also be strengthened. Analyzing and discussing topical, cultural and historically significant texts will allow students to increase cultural awareness of the Spanish-speaking world and to sharpen critical thinking skills. The course is conducted in Spanish.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** SPAN 220**SPAN 158 4 Units****Spanish for Heritage Speakers II****Lecture:** 72 contact hours**Prerequisite:** SPAN 157

This course is designed for students who already communicate in Spanish and who want to develop and strengthen reading and writing skills with special emphasis on vocabulary expansion, verbs, grammar, spelling, punctuation, and cultural applications of the Spanish language. Emphasis is on correct usage of standard Spanish. Course is conducted primarily in Spanish, producing skills equivalent to Spanish 103.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** SPAN 230

Street Rod (AUTOST)

AUTOST 010 4 Units**Beginning Street Rod Construction****Lecture:** 54 contact hours**Lab:** 54 contact hours**Advisory:** AUTOST 010 and AUTO 022

This course covers theory and practical experience in building a street rod vehicle. Topics include shop safety, design and construction of frame and chassis systems and components, body repair, paint preparation, refinishing, and welding.

Associate Degree Applicable**AUTOST 610 Noncredit****Beginning Street Rod Construction****Lecture:** 54 contact hours**Lab:** 54 contact hours

This noncredit course covers theory and practical experience in building a street rod vehicle. Topics include shop safety, design and construction of frame and chassis systems and components, body repair, paint preparation, refinishing, and welding.

Student Development (SDEV)

SDEV 001 1 Unit**Orientation to College****Lecture:** 18 contact hours

This class introduces students to college culture, including academic policies and procedures. To assist in a smooth transition to college, students will identify college success strategies and campus resources that will support them in making a connection to the campus, a key component to success. (Formerly LST 001)

Associate Degree Applicable**SDEV 015 1 Unit****Puente: Strategies for College Success****Lecture:** 18 contact hours**Corequisite:** ENGL 101 or ENGL 101H|**Advisory:** READ 015

This course helps students identify their academic strengths and limitations as a first step in long-term educational planning for transfer. In addition, students learn essential skills for creating success in college and in life. This course is paired with ENGL 015 Preparation for College Writing (Puente Project).

Associate Degree Applicable**SDEV 102 3 Units****Pathways for College and Life Success****Lecture:** 54 contact hours**Advisory:** READ 015

This introductory course is designed for students seeking direction in setting academic and life goals. A bio-psycho-social perspective will be used to highlight the person-environment dynamics crucial to a well-rounded preparation for academic and life success. Major topics will include evaluation of personal interests, abilities and values, educational planning, goal setting, and academic success strategies.

Associate Degree Applicable**Transfers to both UC/CSU**

SDEV 103 3 Units**Career Exploration and Life Planning****Lecture:** 54 contact hours**Advisory:** READ 015

This course is an in-depth study in career and life planning designed for students seeking direction in setting life, academic and career goals. A holistic perspective will be used to highlight the person-environment dynamics crucial to well-rounded preparation for a fulfilling career and life-span developmental achievements. Topics will include major choices, interviewing skills, cover letter and resume writing, and labor market trends.

Associate Degree Applicable**Transfers to both UC/CSU****SDEV 900 0.5 Units****Assessment of Learning Disabilities****Lecture:** 9 contact hours

This course provides instruction in the history, general characteristics and legal definition of learning disabilities. Students' learning strengths and weaknesses and the determination of their eligibility for learning disability services will be determined through a comprehensive assessment. This course is designed for students with known or suspected learning disabilities. Graded on a pass/no pass basis only.

SDEV 905 1 Unit**Supportive Learning in Mathematics****Lab:** 54 contact hours

This course provides specialized instruction and tutoring in basic math skills to individuals and small groups. This course is primarily designed for students who have been certified with disabilities through diagnostic testing; however, all students are welcome to enroll. Support strategies to minimize the effects of the disability in the academic setting are presented to maximize students' effectiveness. Graded on a pass/no pass basis only.

SDEV 906 2 Units**Supportive Learning in Reading****Lab:** 108 contact hours

This multi-sensory phonics course provides specialized instruction and tutoring in grading and spelling to individuals and small groups. Although this course is designed for students with disabilities as certified through diagnostic testing, all students are welcome to enroll. Support strategies to minimize the effects of the disability in the academic setting are presented to maximize students' effectiveness. Graded on a pass/no pass basis only.

Technical Calculations (TECALC)

TECALC 087 4 Units**Technical Calculations****Lecture:** 72 contact hours

This course covers practical use and applications of technical calculations on topics such as electrical measurements, temperature, volume, weight, and positioning including the number line, working with dedicated formula, applied problems, geometric principles, graphs, right triangles, coordinate systems, and scientific notation.

Associate Degree Applicable

Theatre Arts (THART)

THART 100 3 Units**Introduction to the Theatre****Lecture:** 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course focuses on the relationship of theatre to various cultures throughout history, and on the contributions of significant individual artists. This course introduces students to elements of the production process including playwriting, acting, directing, design, and criticism. Students will also survey different periods, styles, and genres of theatre through play reading, discussion, films, and viewing and critiquing live theatre, including required attendance of theatre productions.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** THTR 111**THART 105 3 Units****Script Analysis****Lecture:** 54 contact hours

Prerequisite: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course covers the principles, theories, and techniques of play script analysis for theatre production.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** THTR 114**THART 110 3 Units****Voice and Diction for Actors****Lecture:** 54 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course provides techniques of voice production for the stage. Theory and practice in developing vocal skills for performance such as relaxation, breathing, pitch, rate, articulation, volume, quality, characterization, and the use of dialects are included.

Associate Degree Applicable**Transfers to both UC/CSU****THART 114X4 4 Units****Rehearsal and Performance****Lab:** 216 contact hours

Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

This course provides supervised rehearsal and performance of a college musical and/or play production. It focuses on all aspects of theatre presentation, acting, and production.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** THTR 191

THART 120 3 Units**Acting Fundamentals I****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by SBVC assessment process.

This course provides an introduction to basic acting theory and technique. Students will develop performance skills, including relaxation, interpretation of text, memorization, stage movement, and vocal production.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** THTR 151**THART 121 3 Units****Acting Fundamentals II****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** THART 120

This course follows THART 120 and provides further exploration of acting theory and technique. Emphasis is placed on the development of character through script analysis and the performance of monologues and scenes.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** THTR 152**THART 131 3 Units****Sound for Stage and Screen****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 as determined by SBVC assessment process.

This course is an introductory course in the equipment and techniques used in theatrical and studio sound design, utilizing hands-on and computer training methods.

Associate Degree Applicable**Transfers to both UC/CSU****THART 132 3 Units****Lighting Design Fundamentals****Lecture:** 36 contact hours**Lab:** 54 contact hours

This course involves the study and execution of stage lighting with emphasis on equipment, control, color and their relationship to design.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** THTR 173**THART 135 3 Units****Directing Fundamentals****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** THART 120

This course provides an introduction to the theory, process and development of directorial skills for the stage.

Associate Degree Applicable**Transfers to both UC/CSU****THART 136 3 Units****Introduction to Theatre Design****Lecture:** 54 contact hours

This course offers a survey of scenery, lighting, sound, costumes, makeup, properties, theatrical equipment, and construction techniques. Information is applicable to all theatrical applications.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** THTR 172**THART 139 3 Units****Fundamentals of Costume Design****Lecture:** 36 contact hours**Lab:** 54 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by SBVC assessment process.

Students will study costume history, design, and basic construction techniques as an introduction to basic theatrical costuming. Fabrics and their various uses will be investigated.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** THTR 174**THART 147 3 Units****Theatre Movement****Lecture:** 36 contact hours**Lab:** 54 contact hours

This course is an introduction to the theory and fundamentals of stage movement. Students will develop physical awareness, range, and clarity. The course guides student work on physical characterization for modern and period-style plays.

Associate Degree Applicable**Transfers to both UC/CSU****THART 160X4 3 Units****Technical Theatre in Production****Lab:** 162 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by SBVC assessment process.

Students will gain practical experience in the application of production responsibilities in any of the following: stage management, house management, construction, scenery, properties, costume, lighting, sound, and running crews.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** THTR 192**THART 165 3 Units****Stage Makeup****Lecture:** 18 contact hours**Lab:** 108 contact hours**Advisory:** ENGL 015 or eligibility for ENGL 101 or 101H as determined by SBVC assessment process.

This course is an introduction to the theory, design, and application of makeup for the stage.

Associate Degree Applicable**Transfers to both UC/CSU****C-ID:** THTR 175

THART 166 3 Units**Improvisational Acting****Lecture:** 36 contact hours**Lab:** 54 contact hours

This is a course of instruction in the art of improvisational acting to include theatrical presentation, history of the form, dramatic structure, elements of comedy, audition and rehearsal techniques, collaboration with other performers, and interaction with the audience.

Associate Degree Applicable**Transfers to both UC/CSU****THART 167 3 Units****Advanced Improvisational Acting****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** THART 166

This course follows THART 166 and provides further exploration in the art of advanced improvisational acting. Emphasis is placed on characterization, audience interaction, and the performance of long form improvisation.

Associate Degree Applicable**Transfers to both UC/CSU****THART 222 1-3 Units****Independent Study in Theatre****DIR:** 54 contact hours

Students with previous coursework in theatre may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of theatre. Prior to registration, a written contract must be prepared jointly by the instructor and the student. See instructor for details.

Associate Degree Applicable**Transfers to CSU only****THART 295A-Z 0.5-3 Units****Special Topics in Theatre****Lab:** 162 contact hours

This course will cover current and relevant topics in the field of Theatre Arts. Possible topics include Musical Theatre or New Plays Workshop, Experimental Theatre, Stage Combat, Children's Theatre, Playwriting, Puppetry, The Business of Acting, and Performance Studies.

Associate Degree Applicable**Transfers to CSU only**

Vehicle Restoration (AUTORS)

AUTORS 010 4 Units**Basic Vehicle Restoration****Lecture:** 36 contact hours**Lab:** 108 contact hours**Advisory:** AUTOST 010 and AUTO 022

The course includes basic vehicle restoration theory and practical experience as well as safe work practices, disassembly, cleaning, body repair, welding and assembly.

Associate Degree Applicable**AUTORS 610 Noncredit****Basic Vehicle Restoration****Lecture:** 36 contact hours**Lab:** 108 contact hours

The noncredit course includes basic vehicle restoration theory and practical experience as well as safe work practices, disassembly, cleaning, body repair, welding and assembly.

Vocational Education (VOCED)

VOCED 600 Noncredit**Introduction to the Workplace****Lecture:** 18 contact hours

This noncredit course is designed to provide students with the skills to identify and develop tools for success in the workplace. The topics covered include, but are not limited to, career-discovery, job market analysis, workplace skills, workplace law, workplace and personal finances, and time management.

VOCED 601 Noncredit**Customer Service in the Workplace****Lecture:** 18 contact hours

This noncredit course is designed to provide students with the customer service skills required to interact with customers or clients in the workplace. The topics covered include understanding customer needs, listening to customers, and telephone customer service.

VOCED 602 Noncredit**Job Search Strategies****Lecture:** 9 contact hours

This noncredit course is designed to provide prospective employees with a support system that will assist them in preparation for the workforce. The topics covered but are not limited to planning their job search, utilizing outside resources, the hidden job market, and job market research. After completing this course, the student has an option to continue their education or become gainfully employed.

VOCED 603 Noncredit**Positive Strategies for the New Employee****Lecture:** 9 contact hours

This noncredit course is designed to provide students with the knowledge to increase their level of customer services and colleague relations. The topics covered will include new employee skills, workplace culture, continuing education, and work-life balance.

VOCED 631 Noncredit**Fundamentals of Business English****Lecture:** 36 contact hours

This noncredit course is a review of effective business communication in the workplace. Emphasis is placed on basic grammar, punctuation, capitalization, vocabulary, and spelling in common business documents.

Water Supply Technology (WST)

WST 031 3 Units**Water Use Efficiency Practitioner I****Lecture:** 54 contact hours

This introductory water conservation course is designed for students interested in working as a water use efficiency practitioner. It includes the expected range of knowledge required for the American Water Works Association (AWWA) Water Use Efficiency Practitioner I Certificate.

Associate Degree Applicable

WST 034 3 Units**Introduction to Water Resource Management****Lecture:** 54 contact hours

This course explores the history and development of California water resources. In addition, the course covers the impact of environmental and economic water usage as well as water quality, water pollution and water resource regulations affecting our public drinking water. The basics of watershed management, water supply availability, ground and surface water hydrology as well as alternative sources of water such as the use of water conservation methods will be covered.

Associate Degree Applicable**WST 036 3 Units****Water Utility Management****Lecture:** 54 contact hours**Prerequisite/Corequisite:** WST 092 or WST 062 or WST 072 or WST 082**Advisory:** ENGL 101 or ENGL 101H

This course is designed for students interested in managing water and/or wastewater utilities. Topics will include personnel management, organizational management, financial management, training, problem-solving/decision-making, regulatory compliance, health and safety programs, community relations, personal and professional skills.

Associate Degree Applicable**WST 037 3 Units****Environmental Laws and Regulations****Lecture:** 54 contact hours**Prerequisite:** WST 031 or WST 071 or WST 036 or WST 091**Corequisite:** WST 036

This course is designed to provide a comprehensive overview of federal, state, and local laws and regulations relating to environmental protection and pollution prevention. The course explores the roles of politics, economics, science, and health, in setting regulatory policies that are designed to safeguard and protect water resources. As a part of this course environmental monitoring standards, regulatory agencies, inter-agency relationships and jurisdictions are explored.

Associate Degree Applicable**WST 038 3 Units****Geographic Information Systems (GIS) in Water Resources****Lecture:** 54 contact hours

The introductory course will provide students with a deeper understanding of geography from a water utility perspective, instruction on the basics of Geographic Information Systems (GIS), and introduce them to the core principles of how the knowledge may be applied to water resource management. GIS is used to solve real world water problems including infrastructure placement and maintenance, the difficulties associated with sourcing water, moving water, and treating water as well as the impacts of these on human populations and the natural world.

Associate Degree Applicable**WST 045 3 Units****Backflow Prevention Devices****Lecture:** 45 contact hours**Lab:** 27 contact hours

This course provides instruction in theory, testing, and maintenance of backflow prevention assemblies. It prepares journeyman plumbers and utility operators to take the American Water Work Association Backflow Prevention Certification test.

Associate Degree Applicable**WST 048 3 Units****Cross-Connection Control****Lecture:** 54 contact hours**Prerequisite/Corequisite:** WST 045

This course is a study of the administrative and technical procedures required to establish a cross-connection control program, including a review of applicable local, state and federal regulations. The course includes the identification and study of backflow devices required to mitigate hazards of actual or potential connections between a potable water supply and any source of contamination. It also prepares students to become certified as cross-connection control program specialists.

Associate Degree Applicable**WST 052 3 Units****Water Technology Math****Lecture:** 54 contact hours

This vocational math course is recommended for students who are currently enrolled in water technology course(s). The course includes application of math to solve problems commonly encountered in water technology.

Associate Degree Applicable**WST 053 3 Units****Wastewater Technology Math****Lecture:** 54 contact hours

This vocational math course is recommended for students who are currently enrolled in wastewater treatment course(s). The course includes math required to solve problems commonly encountered in the primary, secondary, and tertiary treatment of wastewater.

Associate Degree Applicable**WST 061 3 Units****Water Distribution I****Lecture:** 54 contact hours**Advisory:** WST 052

This introductory course is designed for students interested in the field of water distribution. It covers the configuration, operation and maintenance of a water distribution system, and includes the Expected Range of Knowledge (ERK) required for the State Water Resource Control Board (SWRCB) water distribution certification tests at D1 and D2 levels. Successful completion of this course fulfills the requirements for specialized training covering fundamentals of water supply principles required to apply for the SWRCB D2 certification test.

Associate Degree Applicable**WST 062 3 Units****Water Distribution II****Lecture:** 54 contact hours**Prerequisite:** WST 061

This advanced level course prepares students for journeyman level system operations in the field of water distribution. The course covers the Expected Range of Knowledge (ERK) required for the California State Water Resources Control Board (SWRCB) examination at the Water Distribution Operator IV (D4) and Water Distribution Operator V (D5) levels. Successful completion of this course also fulfills the requirements for specialized training covering fundamentals of water supply principles required to apply for SWRCB Water Treatment Operator III (T3) and Water Distribution Operator IV (D4) examinations.

Associate Degree Applicable

WST 071 3 Units**Water Treatment I****Lecture:** 54 contact hours**Advisory:** WST 052

This introductory course is designed for students interested in the field of water treatment. It includes processes required to treat source water into potable water and includes the Expected Range of Knowledge (ERK) required to pass the California State Water Resource Control Board (SWRCB) examination at the Water Treatment Operator I (T1) and Water Treatment Operator I (T2) level. Successful completion of this course fulfills the requirements for the specialized training covering drinking water treatment required to apply for SWRCB T2 certification test.

Associate Degree Applicable**WST 072 3 Units****Water Treatment II****Lecture:** 54 contact hours**Prerequisite:** WST 071

This advanced level course prepares students for journeyman level plant operations in the field of water treatment. The course covers the Expected Range of Knowledge (ERK) required to pass the State Water Resources Control Board (SWRCB) examination at Water Treatment Operator III (T3) and Water treatment Operator IV (T4) level. Successful completion of this course fulfills the requirements for specialized training covering fundamentals of water supply principles required to apply for SWRCB Water Treatment Operator III (T3) and Water Distribution Operator III (D3) examinations.

Associate Degree Applicable**WST 075 4 Units****Water/Wastewater Chemistry and Analysis****Lecture:** 54 contact hours**Lab:** 54 contact hours**Prerequisite/Corequisite:** WST 071 or WST 091

This course introduces students to the physical and chemical properties of substances commonly used in the treatment of water/wastewater and the role of laboratory analysis in the treatment processes. The course includes procedures and techniques used by plant operators in physical, chemical, and bacteriological examination of water/wastewater.

Associate Degree Applicable**WST 081 3 Units****Wastewater Collection I****Lecture:** 54 contact hours**Advisory:** WST 053

This course is designed to train operators in the practical aspects of operating and maintaining wastewater collector systems, emphasizing safe practices and procedures. The course focuses on the knowledge, skills, and abilities required to perform the essential duties of an entry level collection system maintenance technologist and prepares students to take the California Water Environment Association (CWEA) Collection System Certification exam at the Grade I level.

Associate Degree Applicable**WST 082 3 Units****Wastewater Collection II****Lecture:** 54 contact hours**Prerequisite:** WST 081

This course is designed to provide an in-depth understanding of the operation and maintenance of wastewater collector systems. The course focuses on the knowledge, skills, and abilities required to perform the essential duties of a skilled or journey level collection system maintenance technologist and prepares students to take the California Water Environment Association (CWEA) Collection System Certification exam at Grade II.

Associate Degree Applicable**WST 086 3 Units****Electrical Instrumentation for Water and Wastewater Operations****Lecture:** 54 contact hours**Advisory:** WST 061 and WST 071 and WST 091

This is an introductory course in electrical instrumentation. The focus of this course will be on how electrical instrumentation is used in the water/wastewater industry. The course will cover basic electronic, electrical, and control systems used for pressure, temperature, level, and flow measurements needed for process control. Electrical safety, process and instrumentation diagrams, and other instrumentation for automation and process control will be discussed.

Associate Degree Applicable**WST 091 3 Units****Wastewater Treatment I****Lecture:** 54 contact hours**Advisory:** WST 053

An introduction to wastewater treatment, students will explore the scope, limits, and methods of wastewater treatment processes through readings, discussions, analysis, and laboratory study. This course is designed for individuals seeking employment or already employed in the wastewater field. It covers the wastewater operator's job-related knowledge identified by the SWRCB examination developers as essential for a minimally competent Grade I or Grade II Wastewater Treatment Plant Operator.

Associate Degree Applicable**WST 092 3 Units****Wastewater Treatment II****Lecture:** 54 contact hours**Prerequisite:** WST 091**Advisory:** WST 053

This is an advanced course in wastewater treatment. Students will explore the scope, limits, and methods of secondary and advanced treatment, solids handling, disinfection, and the reclamation of wastewater, through readings, discussions, analysis, and laboratory study. This course is designed for individuals seeking employment or already employed in the wastewater field. It covers the wastewater operator's job-related knowledge identified by the California State Water Resources Control Board examination developers as essential for a minimally competent Wastewater Treatment Plant Operator Grade III or above.

Associate Degree Applicable

WST 098 1-4 Units**Water Supply Technology Work Experience****WRKEX:** 300 contact hours**Prerequisite:** WST 061 or WST 071 or WST 081 or WST 091

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable**WST 601 Noncredit****Test Review for Water Distribution D1****Lecture:** 9 contact hours

This non-credit course is designed to familiarize students with the expected Range of Knowledge (ROK) required to pass the State Water Resources Control Board (SWRCB) Distribution Operator test at level D1. The review topics include distribution system operations, disinfection, related mathematics and safety. The course may also be used to earn continuing education units required to renew the certificate.

WST 602 Noncredit**Test Review for Water Distribution D2****Lecture:** 9 contact hours

This non-credit course is designed to familiarize students with the expected Range of Knowledge (ROK) required to pass the State Water Resources Control Board (SWRCB) Distribution Operator test at level D2. The review topics include distribution system operations, disinfection, related mathematics and safety. The course may also be used to earn continuing education units required to renew the certificate.

WST 603 Noncredit**Test Review for Water Distribution Operation D3****Lecture:** 8 contact hours

This non-credit course is a review of the expected Range of Knowledge (ROK) required to obtain the State Water Resources Control Board (SWRCB) Distribution Operator certification at the Distribution Operator III level. The review topics include distribution system operations, disinfection, related mathematics, and safety.

WST 611 Noncredit**Test Review for Water Treatment T1****Lecture:** 9 contact hours

This course is a review of the expected Range of Knowledge (ROK) required to obtain the California State Water Resources Control Board (SWRCB) Water Treatment Operator License at level T1. The review topics include conventional treatment techniques, flocculation, sedimentation, filtration, system pressures, and related math.

WST 612 Noncredit**Test Review for Water Treatment T2****Lecture:** 8 contact hours

This noncredit course is a review of the expected Range of Knowledge (ROK) required to obtain the State Water Resources Control Board (SWRCB) Water Treatment Operator II certification. The review topics include conventional treatment techniques, source water supply and storage, water quality regulation and related math.

WST 625 Noncredit**Test Review for Wastewater Treatment Plant Operations Grades One and Two****Lecture:** 8 contact hours

This noncredit course is a review of the expected knowledge for a minimally competent Wastewater Treatment Plant Operator as determined by State Water Resources Control Board (SWRCB) treatment operator certification at the Grades I and II level. The review topics include wastewater treatment operations, disinfection, related mathematics, and safety.

WST 626 Noncredit**Test Review for Wastewater Treatment Plant Operations Grades Three, Four and Five****Lecture:** 8 contact hours

This noncredit course is a review of the expected knowledge for a minimally competent Wastewater Treatment Plant Operator as determined by State Water Resources Control Board (SWRCB) treatment operator certification at the Grades III, IV and V level. The review topics include wastewater treatment operations, administration, process control, regulations, disinfection, related mathematics, and safety.

WST 629 Noncredit**Introduction to Water Supply Technology****Lecture:** 8 contact hours

This noncredit course introduces students to entry-level training in water conservation, treatment, supply, delivery, and waste collection systems. The goal of this course is to offer students better defined opportunities for career selection in the field of water technology. Regulations-licensing and the certification process will be discussed as a part of this course.

WST 631 Noncredit**Introduction to Water Use Efficiency****Lecture:** 36 contact hours

This noncredit water conservation course is designed for students interested in working as a water use efficiency practitioner. It includes the expected range of knowledge required for the American Water Works Association (AWWA) Water Use Efficiency Practitioner I Certificate.

WST 652 Noncredit**Basic Waterworks Math Test Preparation****Lecture:** 16 contact hours

This noncredit course prepares students for the quantitative and algebraic questions typically encountered on water distribution and water treatment operations licensing examinations. This course is also recommended for students currently enrolled in water technology course(s) who desire refresher training in the applied math skills that are unique to water operations. Topics include, but are not limited to, unit conversion, volume, velocity, flow rates, chemical dosages, percent strength, and dilution calculations. Also included are some basic test-taking techniques to increase proficiency on the state exam.

WST 653 Noncredit**Wastewater Technology Math Test Preparation****Lecture:** 16 contact hours

This noncredit course prepares students for the quantitative and algebraic questions typically encountered on wastewater collections and wastewater treatment operations licensing examinations. This course is also recommended for students currently enrolled in water technology course(s) who desire refresher training in the applied math skills that are unique to wastewater collections and treatment operations. Topics include, but are not limited to, unit conversion, volume, velocity, flow rates, chemical dosages, process control, and solids handling. Also included are some basic test-taking techniques to increase proficiency on the state exam.

WST 661 Noncredit**Introduction to Water Distribution****Lecture:** 36 contact hours

This noncredit course is designed for students interested in the field of water distribution. It covers the configuration, operation and maintenance of a water distribution system, and includes the Expected Range of Knowledge (ERK) required for the State Water Resource Control Board (SWRCB) water distribution certification tests at D1 and D2 levels. Successful completion of this course fulfills the requirements for specialized training covering fundamentals of water supply principles required to apply for the SWRCB D2 certification test.

WST 671 Noncredit**Introduction to Water Treatment****Lecture:** 36 contact hours

This noncredit course is designed for students interested in the field of water treatment. It includes processes required to treat source water into potable water and includes the Expected Range of Knowledge (ERK) required to pass the California State Water Resource Control Board (SWRCB) water treatment certification test at T1 level. Successful completion of this course fulfills the requirements for the specialized training covering drinking water treatment required to apply for SWRCB T2 certification test.

WST 681 Noncredit**Introduction to Wastewater Collections****Lecture:** 36 contact hours

This noncredit course is designed to train operators in the practical aspects of operating and maintaining wastewater collector systems, emphasizing safe practices and procedures. The course focuses on the knowledge, skills, and abilities required to perform the essential duties of an entry level collection system maintenance technologist and prepares students to take the California Water Environment Association (CWEA) Collection System Certification exam at Grade I.

WST 691 Noncredit**Introduction to Wastewater Treatment****Lecture:** 36 contact hours

This is an introductory course in wastewater treatment. This noncredit course covers material included in the State Water Resources Control Board (SWRCB) grade I certification exam.

Welding Technology (WELD)

WELD 010 2 Units**Introduction to Welding****Lecture:** 18 contact hours**Lab:** 54 contact hours

This is an introductory course for students in any field that utilizes welding processes. Emphasis will be on Welding Safety, Thermal cutting, Gas Metal Arc Welding, and Shielded Metal Arc Welding in flat and horizontal positions.

Associate Degree Applicable**WELD 012 2 Units****Oxy-Fuel Welding****Lecture:** 18 contact hours**Lab:** 54 contact hours

This course provides entry-level training in oxy-acetylene welding, oxy-fuel cutting and oxy-fuel brazing.

Associate Degree Applicable**WELD 015 3 Units****Gas Tungsten Arc Welding - Beginning****Lecture:** 18 contact hours**Lab:** 108 contact hours**Prerequisite:** WELD 012

This is an introductory course in the Gas Tungsten Arc Welding (GTAW) or Tungsten Inert Gas (TIG) welding process. Welding safety, equipment, and joint construction on mild steel are stressed.

Associate Degree Applicable**WELD 016 4 Units****Gas Tungsten Arc Welding - Intermediate****Lecture:** 18 contact hours**Lab:** 162 contact hours**Prerequisite:** WELD 015

This is an intermediate level course in the Gas Tungsten Arc Welding (GTAW) process that focuses on carbon steel, stainless steel, and aluminum. Welding safety, equipment, basic welding-joint design, expansion, contraction, and residual stress in welding of metals are also covered.

Associate Degree Applicable**WELD 017 3 Units****Gas Tungsten Arc Welding - Advanced****Lab:** 162 contact hours**Prerequisite:** WELD 016

This is an advanced course in GTAW that introduces basic theory and application of pipe welding. Pipe weld-joint design, pre-weld fit up, basic metallurgy, weld symbols, and related codes and standards are emphasized. This course develops gas tungsten arc welding skills on pipe in 1G, 2G, 5G, and 6G as well as welding safety, equipment, basic welding-joint design, expansion, contraction, and residual stress in welding of metals.

Associate Degree Applicable**WELD 027 3 Units****Inspection of Welds: Destructive Testing****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** WELD 010 or WELD 012

Advisory: TECALC 087 and READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course covers basic metallurgy and destructive tests commonly used to determine the physical properties of a weld. Destructive tests include: bend tests, nick break tests, tensile tests, hardness tests, fatigue tests, and impact tests.

Associate Degree Applicable**WELD 028 3 Units****Inspection of Welds: Non-Destructive Examination****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** WELD 010 or WELD 012

Advisory: TECALC 087 and READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course covers non-destructive examination techniques used to determine the soundness of welds and their fitness for service. It includes visual examination, dye penetrant testing, magnetic particle testing, and ultrasonic testing.

Associate Degree Applicable

WELD 045 3 Units**Shielded Metal Arc Welding - Beginning****Lecture:** 18 contact hours**Lab:** 108 contact hours**Prerequisite/Corequisite:** WELD 010

This is an introductory course in the Shielded Metal Arc Welding (SMAW) process often referred to as stick welding or arc welding. Welding safety, equipment and joint construction on mild steel are stressed.

Associate Degree Applicable**WELD 046 4 Units****Shielded Metal Arc Welding - Intermediate****Lecture:** 18 contact hours**Lab:** 162 contact hours**Prerequisite:** WELD 045

This is an intermediate course in the Shielded Metal Arc Welding (SMAW) process. Vertical and overhead groove welds and the lab portion of the structural weld certification for the City of Los Angeles are stressed.

Associate Degree Applicable**WELD 047 3 Units****Preparation for Shielded Metal Arc Welding (SMAW) Pipe****Lecture:** 18 contact hours**Lab:** 108 contact hours**Prerequisite:** WELD 046

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This is an advanced course in the Shielded Metal Arc Welding (SMAW) process that prepares students for pipe welding. Emphasis will be on open root groove welds in all positions. Root passes will be welded with E6010 and fill/covers with E7018.

Associate Degree Applicable**WELD 048 4 Units****Shielded Metal Arc Welding (SMAW) - Pipe****Lecture:** 18 contact hours**Lab:** 162 contact hours**Prerequisite:** WELD 047**Advisory:** TECALC 087

This is an advanced course covering Shielded Metal Arc Welding (SMAW) on pipe. American Welding Society (AWS) and American Petroleum Institute (API) standards will be covered. Focus will be on 5G and 6G welding positions.

Associate Degree Applicable**WELD 055 4 Units****Rigging****Lecture:** 54 contact hours**Lab:** 54 contact hours

The course is a comprehensive study of material handling and rigging.

Associate Degree Applicable**WELD 060 4 Units****Fabrication and Layout - Beginning****Lecture:** 36 contact hours**Lab:** 108 contact hours**Prerequisite:** WELD 010

This course is designed to provide the training needed to read blueprints, create shop drawings, and fabricate and assemble parts.

Associate Degree Applicable**WELD 061 3 Units****Layout Fitter II****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** WELD 060

This course is designed to provide the intermediate to advanced welding student with the skills needed by craftsmen in the fabrication industry. Topics include properties of structural steel; fitting up; plate and pipe.

Associate Degree Applicable**WELD 065 4 Units****Welding Inspection Visual - AWS-CWI****Lecture:** 72 contact hours

Advisory: WELD 028 and READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is designed to prepare students for the Certified Welding Inspector (CWI) examination offered by the American Welding Society (AWS). Focus is placed on visual inspection, terms and definitions, welding symbols, welding processes, welding procedures, code specifications, materials and their limitations, weld testing, record keeping, report preparations, certifications, and responsibilities of a CWI.

Associate Degree Applicable**WELD 066 3 Units****Preparation for Los Angeles City Welding Certification - Structural (AWS D1.1)****Lecture:** 54 contact hours**Prerequisite:** WELD 045**Corequisite:** WELD 046

Advisory: READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course prepares students for the written Structural Steel examination offered by the City of Los Angeles Department of Building and Safety (LADBS) with a focus on the American Welding Society (AWS) D1.1 structural welding code.

Associate Degree Applicable**WELD 067 2 Units****Structural Steel Special Inspection (ICC)****Lecture:** 36 contact hours

Advisory: WELD 060 and READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.

This course is designed to prepare students for the structural steel special inspection examinations offered by the International Code Council (ICC). Topics include a review of the technical aspects on inspection and quality control in the area of structural steel, welding preparation, materials applications, plan reading, related codes, and report writing.

Associate Degree Applicable**WELD 068 3 Units****Preparation for Los Angeles City Welder Certification - Reinforced Steel and Light Gauge Steel****Lecture:** 36 contact hours**Lab:** 54 contact hours**Prerequisite:** WELD 066

This class prepares students for the City of Los Angeles Department of Building and Safety (LADBS) Reinforced Steel and Light Gauge Steel written and performance qualification examinations with emphasis on the American Welding Society (AWS) D1.3 and AWS D1.4 Welding Codes.

Associate Degree Applicable

WELD 077 3 Units**Introduction to Continuous Wire Welding****Lecture:** 18 contact hours**Lab:** 108 contact hours**Prerequisite:** WELD 010

This course covers techniques and methods of Gas Metal Arc Welding (GMAW) and Flux-cored Arc Welding (FCAW) in all positions and on various thicknesses of mild steel. Fulfills American Welding Society SENSE Level 1 – Entry Welder Certification Modules 5: Gas Metal Arc Welding (GMAW-S, GMAW Spray Transfer) and 6: Flux Cored Arc Welding (FCAW-G/GM, FCAW-S).

Associate Degree Applicable**WELD 080 3 Units****Gas Metal Arc Welding - Beginning****Lecture:** 18 contact hours**Lab:** 108 contact hours**Prerequisite:** WELD 010

This course introduces techniques and methods of Gas Metal Arc Welding (GMAW-S, GMAW Spray Transfer) in all positions and on various thicknesses of mild steel.

Associate Degree Applicable**WELD 081 4 Units****Gas Metal Arc Welding - Intermediate****Lecture:** 18 contact hours**Lab:** 162 contact hours**Prerequisite:** WELD 080

This is the study of intermediate techniques and methods of Gas Metal Arc Welding (GMAW) and Metal-Cored Arc Welding (MCAW) in all positions and on various thicknesses of mild steel and aluminum.

Associate Degree Applicable**WELD 082 3 Units****Gas Metal Arc Welding - Advanced****Lab:** 162 contact hours**Prerequisite:** WELD 081

This is an advanced course in Gas Metal Arc Welding (GMAW) that introduces basic theory and application of pipe welding. Pipe weld-joint design, pre-weld fit up, basic metallurgy, weld symbols, and related codes and standards are emphasized. The course develops Gas Metal Arc Welding (GMAW) skills on pipe in 1G, 2G, 5G, and 6G as well as welding safety, equipment, basic welding-joint design, expansion, contraction, and residual stress in welding of metals.

Associate Degree Applicable**WELD 090 4 Units****Flux Cored Arc Welding - Gas Shielded****Lecture:** 18 contact hours**Lab:** 168 contact hours**Prerequisite:** WELD 010

This course introduces techniques and methods of Flux Cored Arc Welding-Gas shielded (FCAW-G) in all positions and on various thicknesses of carbon steel.

Associate Degree Applicable**WELD 091 4 Units****Flux Cored Arc Welding - Self Shielded****Lecture:** 18 contact hours**Lab:** 162 contact hours**Prerequisite:** WELD 010**Advisory:** WELD 090

This course introduces techniques and methods of Flux Cored Arc Welding-Self shielded (FCAW-S) in all positions and on various thicknesses of carbon steel.

Associate Degree Applicable**WELD 092 3 Units****Flux Cored Arc Welding - Advanced****Lab:** 162 contact hours**Prerequisite:** WELD 090 or WELD 091

This is an advanced course in Flux Cored Arc Welding (FCAW) that introduces basic theory and application of pipe welding. Pipe weld-joint design, pre-weld fit up, basic metallurgy, weld symbols, and related codes and standards are emphasized. The course develops Flux Cored Arc Welding skills on pipe in 1G, 2G, 5G, and 6G as well as welding safety, equipment, basic welding-joint design, expansion, contraction, and residual stress in welding of metals.

Associate Degree Applicable**WELD 098 1-4 Units****Welding Work Experience****WRKEX:** 300 contact hours

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable**WELD 099 1-3 Units****Independent Study in Welding Technology****DIR:** 18 contact hours

Students with previous course work in Welding Technology may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of Welding Technology. Prior to registration, a written contract must be prepared jointly by the instructor and the student. See instructor for details.

Associate Degree Applicable**WELD 645 Noncredit****Shielded Metal Arc Welding - Beginning****Lecture:** 18 contact hours**Lab:** 108 contact hours

This is a noncredit introductory course in the Shielded Metal Arc Welding (SMAW) process often referred to as stick welding or arc welding. Welding safety, equipment and joint construction on mild steel are stressed.

WELD 646 Noncredit**Shielded Metal Arc Welding - Intermediate****Lecture:** 18 contact hours**Lab:** 162 contact hours**Prerequisite:** WELD 645

This is an intermediate noncredit course in the Shielded Metal Arc Welding (SMAW) process. Vertical and overhead groove welds and the lab portion of the structural weld certification for the City of Los Angeles are stressed.

WELD 660 Noncredit**Fabrication and Layout - Beginning****Lecture:** 36 contact hours**Lab:** 108 contact hours

This noncredit course is designed to provide the training needed to read blueprints, create shop drawings, and fabricate and assemble parts.

WELD 666 Noncredit**Preparation for Los Angeles City Welding Certification - Structural (AWS D1.1)****Lecture:** 54 contact hours

This noncredit course prepares students for the written Structural Steel examination offered by the City of Los Angeles Department of Building and Safety (LADBS) with a focus on the American Welding Society (AWS) D1.1 structural welding code.

WELD 680 Noncredit**Gas Metal Arc Welding - Beginning****Lecture:** 18 contact hours**Lab:** 108 contact hours

This noncredit course introduces techniques and methods of Gas Metal Arc Welding (GMAW-S, GMAW Spray Transfer) in all positions and on various thicknesses of mild steel.

WELD 681 Noncredit**Gas Metal Arc Welding - Intermediate****Lecture:** 18 contact hours**Lab:** 162 contact hours**Prerequisite:** WELD 680

This noncredit course is the study of intermediate techniques and methods of Gas Metal Arc Welding (GMAW) and Metal-Cored Arc Welding (MCAW) in all positions and on various thicknesses of mild steel and aluminum.

WELD 690 Noncredit**Flux Cored Arc Welding - Gas Shielded****Lecture:** 18 contact hours**Lab:** 162 contact hours

This noncredit course introduces techniques and methods of Flux Cored Arc Welding- Gas shielded (FCAW-G) in all positions and on various thicknesses of carbon steel.

WELD 691 Noncredit**Flux Cored Arc Welding - Self Shielded****Lecture:** 18 contact hours**Lab:** 162 contact hours**Prerequisite:** WELD 690

This noncredit course introduces techniques and methods of Flux Cored Arc Welding- Self shielded (FCAW-S) in all positions and on various thicknesses of carbon steel.

Work Experience (WKEXP)

WKEXP 099 1-4 Units**General Work Experience****WRKEX:** 300 contact hours

Supervised training, in the form of on the job employment that will enhance the student's knowledge in the selected field of study. The student's major and job must match. For paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units toward graduation in Work Experience 098 courses. See department for specific guidelines.

Associate Degree Applicable

CATALOG CONTENTS

- San Bernardino Valley College Catalog 2020-2021 (p. 7)
 - 2020-2021 Academic Calendar (p. 434)
 - Academic Programs and Services (p. 42)
 - Academic Success Centers (<http://catalog.valleycollege.edu/academic-programs-services/academic-success-center/>)
 - Guided Pathways (<http://catalog.valleycollege.edu/academic-programs-services/guided-pathways/>)
 - Library (p. 43)
 - Middle College High School Program (p. 43)
 - Online Education (p. 43)
 - STEM Program (p. 43)
 - Student Awards and Honors (p. 42)
 - Valley Now! (<http://catalog.valleycollege.edu/academic-programs-services/valley-now/>)
 - Writing Center (p. 44)
 - Zero Textbook Cost Degree Program (Z DEGREE) (p. 44)
 - Academic Standards and Policies (p. 12)
 - Academic Freedom (p. 20)
 - Academic Renewal (p. 19)
 - Alternative Sources of Credit (p. 12)
 - Credit by Examination (p. 12)
 - Credit for Advanced Placement (AP) Examinations (p. 13)
 - Credit for Courses From Other College and Universities (p. 14)
 - Credit for DSST/DANTES (Defense Activity for Non-Traditional Education Support) (p. 14)
 - Credit for Military Service (p. 15)
 - Credit for the College Level Examination (CLEP) Program (p. 15)
 - Credit for the International Baccalaureate (p. 16)
 - Transfer of Credit (p. 17)
 - Attendance (p. 12)
 - Classification of Student Load (p. 12)
 - Credit Hours (Units) (p. 12)
 - Credit Courses (p. 20)
 - Course Identification Numbering System (C-ID) (p. 20)
 - Prerequisites, Corequisites, and Departmental Advisories (p. 20)
 - Repeated Courses (p. 21)
 - Final Exams and Grades (p. 17)
 - Final Examinations (p. 17)
 - Final Grades and Transcripts (p. 17)
 - Incomplete Grades (p. 18)
 - Grades and Grade Points (p. 18)
 - How to Calculate your GPA (p. 18)
 - Non-Degree Applicable Courses (p. 21)
 - Non-Discrimination Policy (p. 19)
 - Open Enrollment Policy (p. 20)
 - Pass/No Pass (p. 18)
 - Probation and Dismissal (p. 18)
 - Academic Disqualification (p. 19)
 - Academic Probation (p. 19)
 - Progress Probation (p. 19)
 - Readmission After Disqualification (p. 19)
 - Sexual Harassment Policy (p. 20)
- Administration and Faculty (p. 299)
 - Administration (p. 299)
 - Administrative Emeriti (p. 300)
 - Faculty (p. 300)
 - Faculty / Professor Emeriti (p. 308)
- Admissions and Registration (p. 22)
 - Adding a Class (p. 25)
 - Admission Regulations and Residency (p. 22)
 - AB 540 (p. 22)
 - Admission Requirements (p. 22)
 - Deferred Action for Childhood Arrivals (DACA) (p. 22)
 - Discharged Members of the Armed Forces (p. 22)
 - High School Students (p. 22)
 - International Students (p. 23)
 - Non-Resident Veterans AB13 (p. 23)
 - Out-of-State Students (p. 23)
 - Residence Requirements (p. 23)
 - Auditing Courses (p. 24)
 - Payment of Fees (p. 24)
 - Refunds (p. 25)
 - Registration (p. 24)
 - Late Registration (p. 24)
 - Veterans (p. 25)
 - Waitlist (p. 24)
- Campus Map (p. 435)
- Catalog A-Z Index (<http://catalog.valleycollege.edu/azindex/>)
- Catalog Contents (p. 428)
- College General (p. 9)
 - Accreditation (p. 10)
 - Campus Safety (p. 10)
 - Institutional Learning Outcomes (p. 10)
 - San Bernardino Valley College Foundation (p. 11)
 - Use of Image, Likeness or Voice Captured at Public Events (p. 11)
- Courses A-Z (p. 310)
 - Accounting (ACCT) (p. 311)
 - Administration of Justice (ADJUS) (p. 311)
 - Aeronautics (AERO) (p. 312)
 - American Sign Language (ASL) (p. 316)
 - Anthropology (ANTHRO) (p. 316)
 - Arabic (ARAB) (p. 318)
 - Architecture (ARCH) (p. 318)
 - Art (ART) (p. 320)
 - Astronomy (ASTRON) (p. 325)
 - Automotive Interiors (AUTOIN) (p. 325)
 - Automotive Technology (AUTO) (p. 325)
 - Biology (BIOL) (p. 328)
 - Business Administration (BUSAD) (p. 330)
 - Chemistry (CHEM) (p. 332)
 - Child Development (CD) (p. 333)

- Communication Studies (COMMST) (p. 337)
- Computer Information Technology (CIT) (p. 338)
- Computer Science (CS) (p. 343)
- Corrections (CORREC) (p. 345)
- Criminal Justice (CRMJUS) (p. 345)
- Culinary Arts (CULART) (p. 346)
- Dance (DANCE) (p. 348)
- Economics (ECON) (p. 349)
- Electricity (ELEC) (p. 350)
- Electronics (ELECTR) (p. 351)
- Engineering (ENGR) (p. 353)
- English (ENGL) (p. 353)
- English As a Second Language (ESL) (p. 358)
- Environmental Science (ENVT) (p. 359)
- Film, Television, and Media (FTVM) (p. 359)
- Foods and Nutrition (FN) (p. 361)
- French (FRENCH) (p. 362)
- Geographic Information Systems (GIS) (p. 362)
- Geography (GEOG) (p. 363)
- Geology (GEOL) (p. 365)
- Health Education (HEALTH) (p. 366)
- Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R) (p. 367)
- Heavy/Medium Duty Truck (HMDT) (p. 369)
- History (HIST) (p. 371)
- Human Services (HUMSV) (p. 372)
- Inspection Technology (INSPEC) (p. 375)
- Kinesiology (Adapted) (KINA) (p. 377)
- Kinesiology (Athletics) (KINX) (p. 378)
- Kinesiology (Fitness) (KINF) (p. 381)
- Kinesiology (KIN) (p. 384)
- Kinesiology (Team) (KINS) (p. 385)
- Library Technology (LIB) (p. 387)
- Machinist Technology (MACH) (p. 388)
- Mathematics (MATH) (p. 391)
- Music (MUS) (p. 393)
- Nursing (NURS) (p. 399)
- Oceanography (OCEAN) (p. 402)
- OSHA (OSHA) (p. 402)
- Pharmacy Technology (PHT) (p. 403)
- Philosophy (PHIL) (p. 404)
- Physics (PHYSIC) (p. 404)
- Police Science (POLICE) (p. 405)
- Political Science (POLIT) (p. 409)
- Psychiatric Technology (PSYTCH) (p. 410)
- Psychology (PSYCH) (p. 411)
- Reading and Study Skills (READ) (p. 412)
- Real Estate (REALST) (p. 413)
- Religious Studies (RELIG) (p. 414)
- Sociology (SOC) (p. 415)
- Spanish (SPAN) (p. 416)
- Street Rod (AUTOST) (p. 417)
- Student Development (SDEV) (p. 417)
- Technical Calculations (TECALC) (p. 418)
- Theatre Arts (THART) (p. 418)
- Vehicle Restoration (AUTORS) (p. 420)
- Vocational Education (VOCED) (p. 420)
- Water Supply Technology (WST) (p. 420)
- Welding Technology (WELD) (p. 424)
- Work Experience (WKEXP) (p. 427)
- Degree and Certificate Program Index (p. 61)
 - Accounting (p. 61)
 - Accounting Associate of Arts Degree (p. 62)
 - Accounting Certificate of Achievement (p. 62)
 - Bookkeeping Certificate of Career Preparation (p. 63)
 - Administration of Justice (p. 63)
 - Administration of Justice Associate of Arts Degree (p. 64)
 - Administration of Justice Associate of Science Transfer Degree (p. 65)
 - Administration of Justice Certificate of Achievement (p. 66)
 - Aeronautics (p. 66)
 - Airframe Maintenance Technician Certificate of Achievement (p. 70)
 - Aviation Maintenance Technician Associate of Science Degree (p. 70)
 - Aviation Maintenance Technician Certificate of Achievement (p. 71)
 - Flight Operations and Management Associate of Science Degree (p. 72)
 - Flight Operations Certificate of Achievement (p. 72)
 - Powerplant Maintenance Technician Certificate of Achievement (p. 73)
 - American Sign Language (ASL) (p. 73)
 - Anthropology (p. 74)
 - Anthropology Associate of Arts Transfer Degree (p. 75)
 - Arabic (p. 76)
 - Architecture and Environmental Design (p. 77)
 - 3D Modeling and Design Certificate of Achievement (p. 79)
 - Architecture and Environmental Design Associate of Science Degree (p. 80)
 - Building Information and 3D Modeling Certificate of Achievement (p. 80)
 - Building Information Management (BIM) Certificate of Achievement (p. 81)
 - Art (p. 81)
 - Art Associate of Arts Degree (p. 86)
 - Graphic Design Associate of Arts Degree (p. 87)
 - Graphic Design Certificate of Achievement (p. 87)
 - Studio Arts Associate of Arts Transfer Degree (p. 87)
 - Web and Multimedia Design Certificate of Achievement (p. 88)
 - Astronomy (p. 89)
 - Astronomy Associate of Science Degree (p. 89)
 - Automotive Collision (p. 89)
 - Advanced Automotive Collision Repair and Refinishing Associate of Science Degree (p. 90)

- Advanced Automotive Collision Repair and Refinishing Certificate of Achievement (p. 91)
- Automotive Interiors Certificate of Achievement (p. 91)
- Automotive Interiors Certificate of Completion (p. 91)
- Basic Automotive Collision Repair and Refinishing Associate of Science Degree (p. 92)
- Basic Automotive Collision Repair and Refinishing Certificate of Achievement (p. 92)
- Street Rod Construction Certificate of Achievement (p. 92)
- Street Rod Construction Certificate of Completion (p. 92)
- Automotive Technology (p. 93)
 - Automatic and Manual Transmission Associate of Science Degree (p. 95)
 - Automatic and Manual Transmission Certificate of Achievement (p. 96)
 - Automotive Technician Associate of Science Degree (p. 96)
 - Automotive Technician Certificate of Achievement (p. 97)
 - Engine Performance Associate of Science Degree (p. 97)
 - Engine Performance Certificate of Achievement (p. 98)
 - Preventative Maintenance Technician Certificate of Achievement (p. 98)
 - Wheel Alignment and Brakes Associate of Science Degree (p. 98)
 - Wheel Alignment and Brakes Certificate of Achievement (p. 99)
- Biology (p. 99)
 - Biology Associate of Science Degree (p. 102)
 - Biology Associate of Science Transfer Degree (p. 102)
- Business Administration (p. 103)
 - Business Administration Associate of Arts Degree (p. 106)
 - Business Administration Associate of Science Transfer Degree (p. 106)
 - Business Administration Certificate of Achievement (p. 107)
 - Entrepreneurship - General Certificate of Achievement (p. 107)
 - Entrepreneurship - Real Estate Certificate of Achievement (p. 108)
 - Entrepreneurship - Tax Certificate of Achievement (p. 108)
 - Leadership Certificate of Achievement (p. 108)
 - Retail Management Certificate of Achievement (p. 109)
- Chemistry (p. 109)
 - Chemistry Associate of Science Degree (p. 111)
 - Chemistry Associate of Science Transfer Degree (p. 111)
- Child Development (p. 112)
 - Child Development - Associate Teacher Certificate of Achievement (p. 116)
 - Child Development - Early Intervention and Inclusion Associate of Arts Degree (p. 117)
 - Child Development - Early Intervention and Inclusion Certificate of Achievement (p. 117)
 - Child Development - Family Child Care Provider Certificate of Achievement (p. 118)
 - Child Development - Infant and Toddler Certificate of Achievement (p. 118)
 - Child Development - Master Teacher Certificate of Achievement (p. 118)
 - Child Development - School Age Certificate of Achievement (p. 119)
 - Child Development - Site Supervisor Certificate of Achievement (p. 120)
 - Child Development - Teacher Certificate of Achievement (p. 121)
 - Child Development Associate of Arts Degree (p. 122)
 - Early Childhood Education Associate of Science Transfer Degree (p. 122)
- Chinese (p. 123)
- Communication Studies (p. 123)
 - Communication Studies Associate of Arts Transfer Degree (p. 125)
- Computer Information Technology (p. 125)
 - Administrative Assistant Certificate of Achievement (p. 130)
 - Android Application Security Support Specialist Certificate of Achievement (p. 131)
 - Cisco Certified Network Associate Certificate of Career Preparation (p. 131)
 - CIT - Management Information Systems Associate of Science Degree (p. 131)
 - CIT - Management Information Systems Certificate of Achievement (p. 132)
 - CIT - Office Technology Associate of Arts Degree (p. 132)
 - Computer Network Support Specialist Certificate of Achievement (p. 133)
 - Computer Support Specialist Certificate of Achievement (p. 133)
 - Digital Forensics Certificate of Achievement (p. 134)
 - Information Security and Cyber Defense Certificate of Achievement (p. 134)
 - Information Systems and Technology Associate of Science Degree (p. 134)
 - iOS Application Security Support Specialist Certificate of Achievement (p. 135)
 - Medical Coding and Billing Certificate of Achievement (p. 135)
 - Office Technology Fundamentals Certificate of Completion (p. 135)
 - Web Application Security Support Specialist Certificate of Achievement (p. 136)
- Computer Science (p. 136)
 - Computer Science Associate of Science Degree (p. 138)
 - Computer Science Associate of Science Transfer Degree (p. 138)
 - Computer Science Certificate of Achievement (p. 139)
- Corrections (p. 139)
 - Corrections Certificate of Achievement (p. 140)
- Criminal Justice (p. 141)
 - Modular Basic Peace Officer Certificate of Achievement (p. 141)
- Culinary Arts (p. 142)

- Baking Business Certificate of Achievement (p. 144)
- Baking Certificate of Achievement (p. 144)
- Culinary Arts Associate of Arts Degree (p. 145)
- Culinary Arts Certificate of Achievement (p. 145)
- Food Preparation Certificate of Achievement (p. 146)
- Food Service Certificate of Achievement (p. 146)
- Professional Baking and Management Associate of Arts Degree (p. 146)
- Restaurant Service Certificate of Achievement (p. 147)
- Dance (p. 147)
- Economics (p. 149)
 - Economics Associate of Arts Transfer Degree (p. 150)
- Electricity, Electronics, and Technical Calculations (p. 151)
 - Avionics Technology Associate of Science Degree (p. 155)
 - Avionics Technology Certificate of Achievement (p. 155)
- Communication Engineering Technology Associate of Science Degree (p. 156)
- Communication Engineering Technology Certificate of Achievement (p. 156)
- Computer Engineering Technology Associate of Science Degree (p. 157)
- Computer Engineering Technology Certificate of Achievement (p. 157)
- Electric Power Technology Associate of Science Degree (p. 158)
- Electric Power Technology Certificate of Achievement (p. 158)
- Electronics Technology Associate of Science Degree (p. 159)
- Electronics Technology Certificate of Achievement (p. 160)
- General Electrician Certificate of Achievement (p. 160)
- Green Technician Certificate of Career Preparation (p. 161)
- Industrial Automation Certificate of Achievement (p. 161)
- Smart Systems Automation Technology Certificate of Completion (p. 162)
- Zero Net Energy Certificate of Achievement (p. 162)
- Engineering (p. 162)
- English (p. 163)
 - English Associate of Arts Transfer Degree (p. 168)
- English as a Second Language (ESL) (p. 169)
 - ESL Integrated Skills - Beginning Certificate of Completion (p. 170)
- Environmental Science (p. 171)
 - Environmental Science Associate of Science Degree (p. 171)
 - Environmental Science Associate of Science Transfer Degree (p. 172)
- Film, Television, and Media (p. 173)
 - Film Associate of Arts Degree (p. 175)
 - Film, Television, and Electronic Media Associate of Science Transfer Degree (p. 175)
 - Media Development Certificate of Achievement (p. 176)
 - Media Production Associate of Arts Degree (p. 176)
 - Post-Production Certificate of Achievement (p. 177)
 - Production Certificate of Achievement (p. 177)
 - Social Media Field Production Certificate of Achievement (p. 177)
 - Social Media Narrative Production Certificate of Achievement (p. 178)
 - Social Media Studio Production Certificate of Achievement (p. 178)
 - Television Associate of Arts Degree (p. 178)
- Foods and Nutrition (p. 178)
 - Dietetic Aide Certificate of Achievement (p. 179)
 - Dietetic Service Supervisor Certificate of Achievement (p. 179)
 - Nutrition and Dietetics Associate of Science Transfer Degree (p. 180)
- French (p. 180)
- Geographic Information Systems (GIS) (p. 181)
 - Geographic Information Systems Certificate of Achievement (p. 182)
- Geography (p. 183)
 - Geography Associate of Arts Transfer Degree (p. 185)
 - Geography Associate of Science Degree (p. 186)
- Geology (p. 186)
 - Geology Associate of Science Degree (p. 188)
 - Geology Associate of Science Transfer Degree (p. 189)
- Heating, Ventilation, Air Conditioning and Refrigeration (HVAC/R) (p. 189)
 - Heating, Ventilation, Air Conditioning and Refrigeration Associate of Science Degree (p. 192)
 - Heating, Ventilation, Air Conditioning and Refrigeration Certificate of Achievement (p. 192)
 - Refrigeration Service Engineer Society (HVAC) Certificate of Achievement (p. 193)
- Heavy/Medium Duty Truck Technology (p. 193)
 - Heavy-Medium Duty Truck Technology Certificate of Achievement (p. 195)
 - Heavy/Medium Duty Clean Vehicle Technology Certificate of Achievement (p. 196)
 - Heavy/Medium Duty Truck Engine and Fuel Injection Technology Certificate of Achievement (p. 196)
 - Heavy/Medium Duty Truck Engine and Fuel Injection Technology Certificate of Completion (p. 197)
 - Heavy/Medium Duty Truck Technology Associate of Science Degree (p. 197)
- History (p. 197)
- Human Services (p. 199)
 - Addiction Studies Certificate of Achievement (p. 203)
 - Career Specialist Certificate of Achievement (p. 203)
 - Case Management in the Public Sector Certificate of Achievement (p. 204)
 - Human Services Associate of Arts Degree (p. 204)
 - Human Services Certificate of Achievement (p. 205)
- Inspection Technology (p. 205)
 - Inspection Technology Associate of Science Degree (p. 207)
 - Inspection Technology Certificate of Achievement (p. 208)
 - Inspection Technology Certificate of Completion (p. 208)
- Kinesiology and Health (p. 209)

- Kinesiology Associate of Arts Degree (p. 219)
- Kinesiology Associate of Arts Transfer Degree (p. 221)
- Learning Skills and Tutoring (p. 222)
- Liberal Arts (p. 222)
 - Liberal Arts - Biological and Physical Sciences Associate of Arts Degree (p. 223)
 - Liberal Arts - Humanities and Fine Arts Associate of Arts Degree (p. 224)
 - Liberal Arts - Social and Behavioral Sciences Associate of Arts Degree (p. 226)
- Library Technology (p. 227)
 - Library Technology Associate of Arts Degree (p. 228)
 - Library Technology Certificate of Achievement (p. 228)
- Machinist Technology (p. 229)
 - Basic Machine Operator Certificate of Career Preparation (p. 233)
 - Basic Operation Computerized Numerical Control (CNC) Certificate of Achievement (p. 233)
 - Computer Numerical Control - CAD & CAM Associate of Science Degree (p. 233)
 - Computer Numerical Control - CAD & CAM Certificate of Achievement (p. 234)
 - Industrial Maintenance Certificate of Achievement (p. 234)
 - Machine Technology Certificate of Achievement (p. 235)
 - Machinist Standard Associate of Science Degree (p. 235)
 - Machinist Standard Certificate of Achievement (p. 235)
 - Tool & Die Associate of Science Degree (p. 236)
 - Tool & Die Certificate of Achievement (p. 236)
- Mathematics (p. 236)
 - Mathematics Associate of Science Transfer Degree (p. 239)
- Music (p. 240)
 - Music Associate of Arts Degree (p. 245)
 - Music Associate of Arts Transfer Degree (p. 246)
- Nursing (p. 247)
 - Nursing Associate of Science Degree (p. 251)
- Occupational Safety and Health Act (OSHA) (p. 252)
- Oceanography (p. 252)
- Pharmacy Technology (p. 253)
 - Pharmacy Technology Associate of Science Degree (p. 254)
 - Pharmacy Technology Certificate of Achievement (p. 255)
- Philosophy/Religious Studies (p. 255)
 - Philosophy Associate of Arts Transfer Degree (p. 257)
- Phlebotomy (p. 258)
 - Phlebotomy Certificate of Completion (p. 259)
- Physics (p. 259)
 - Physics Associate of Science Degree (p. 260)
 - Physics Associate of Science Transfer Degree (p. 261)
- Police Science (p. 261)
 - Basic Peace Officer Certificate of Achievement (p. 265)
- Political Science (p. 265)
 - Political Science Associate of Arts Transfer Degree (p. 267)
- Psychiatric Technology (p. 268)
 - Psychiatric Technology Associate of Science Degree (p. 269)
 - Psychiatric Technology Certificate of Achievement (p. 270)
- Psychology (p. 270)
 - Psychology Associate of Arts Transfer Degree (p. 272)
- Reading and Study Skills (p. 273)
- Real Estate (p. 273)
 - Real Estate Associate of Arts Degree (p. 275)
 - Real Estate Certificate of Achievement (p. 275)
- Sociology (p. 276)
 - Sociology Associate of Arts Transfer Degree (p. 277)
- Spanish (p. 278)
 - Spanish Associate of Arts Transfer Degree (p. 279)
- Student Development (p. 280)
- Theatre Arts (p. 281)
 - Design and Technical Theatre Certificate of Achievement (p. 283)
 - Theatre Arts Associate of Arts Transfer Degree (p. 283)
- Vocational Education (p. 284)
 - Job Readiness Skills Certificate of Completion (p. 284)
 - Workforce Literacy Skills Certificate of Completion (p. 285)
- Water Supply Technology (p. 285)
 - Basic Waterworks Certificate of Completion (p. 288)
 - Wastewater Technology Certificate of Completion (p. 289)
 - Water Supply Technology Certificate of Achievement (p. 289)
 - Water Technology Associate of Science Degree (p. 290)
 - Water Use Specialist Certificate of Completion (p. 290)
- Welding Technology (p. 291)
 - Flux Cored Arc Welding (FCAW) Certificate of Achievement (p. 294)
 - Gas Metal Arc Welding (GMAW) Certificate of Achievement (p. 294)
 - Gas Tungsten Arc Welding (GTAW) Certificate of Achievement (p. 294)
 - Pipe Welding Certificate of Achievement (p. 295)
 - Shielded Metal Arc Welding (SMAW) Certificate of Achievement (p. 295)
 - Welding Inspection Technology Certificate of Achievement (p. 295)
 - Welding Job Readiness Certificate of Completion (p. 296)
 - Welding Technology Associate of Science Degree (p. 296)
 - Welding Technology Certificate of Achievement (p. 297)
- Work Experience (p. 297)
- Enrollment and Orientation/Assessment Process (p. 26)
 - AB 705 (p. 26)
 - Applications Procedures (p. 26)
 - Student Orientation Session (p. 26)
 - Assessment Appointment (p. 26)
 - Policy on the Guided Self-Placement Process/Assessment (p. 26)
- General Education and Graduation Requirements (p. 45)
 - Associate Degree Graduation Requirements (p. 45)
 - Graduation Catalog Rights (p. 45)
 - Philosophy of General Education (p. 45)

- Transfer Information (p. 50)
 - Associate Degrees for Transfer (p. 51)
 - California State University General Education - Breadth (p. 52)
 - Intersegmental General Education Transfer Curriculum (IGETC) (p. 56)
 - Vocational Certificate Programs (p. 50)
- Previous Catalogs (<http://catalog.valleycollege.edu/previous-catalogs/>)
- Search Courses (<http://catalog.valleycollege.edu/course-search/>)
 - [/course-search/api/](http://catalog.valleycollege.edu/course-search/api/) (<http://catalog.valleycollege.edu/course-search/api/>)
- Student Support Programs and Services (p. 28)
 - Financial Aid Programs (p. 34)
 - Services for Students (p. 28)
 - Student Rights and Responsibilities (p. 36)
 - Student Success and Support Program (SSSP) (p. 40)

ACADEMIC CALENDAR

The 2020-2021 Academic Calendar (<http://catalog.valleycollege.edu/academiccalendar/>

SBCCD_Academic_Calendar_2021_FINAL_2019-09-25.pdf) has information on start and end dates, holidays, and final exams.

Fall Semester 2020

Date	Event
07/03/2020	Independence Day (Observed)
08/11/2020	Flex Day
08/12/2020	In-Service Day
08/17/2020	Fall Semester Begins
09/07/2020	Labor Day
11/11/2020	Veterans Day
11/23/2020 - 11/25/2020	Recess
11/26/2020 - 11/28/2020	Thanksgiving
12/12/2020 - 12/18/2020	Final Exams Week
12/24/2020 - 01/01/2020	Winter Break

Spring 2021 Semester

Date	Event
01/13/2021	Flex Day
01/14/2021 - 01/15/2021	In-Service Day
01/19/2021	Spring Semester Begins
01/18/2021	MLK Day
02/12/2021	Lincoln's Birthday
02/15/2021	Washington's Birthday
03/22/2021 - 03/27/2021	Spring Break
04/13/2021	In-Service Day
05/19/2021 - 05/25/2021	Final Exams Week
05/26/2021	In-Service Day (Commencement)
05/31/2021	Memorial Day

CAMPUS MAP

S (<http://catalog.valleycollege.edu/campusmap/sbvc-campus-map-redrawn-8-16-19.pdf>)BVC Campus Map (<http://catalog.valleycollege.edu/campusmap/sbvc-campus-map-redrawn-8-16-19.pdf>)

INDEX

#

3D Modeling and Design Certificate of Achievement 79

A

AB 540 22

AB 705 26

Academic Calendar 434

Academic Disqualification 19

Academic Freedom 20

Academic Probation 19

Academic Programs and Services 42

Academic Renewal 19

Academic Standards and Policies 12

Accounting 61

Accounting (ACCT) 311

Accounting Associate of Arts Degree 62

Accounting Certificate of Achievement 62

Accreditation 10

Addiction Studies Certificate of Achievement 203

Adding a Class 25

Administration 299

Administration and Faculty 299

Administration of Justice 63

Administration of Justice (ADJUS) 311

Administration of Justice Associate of Arts Degree 64

Administration of Justice Associate of Science Transfer Degree 65

Administration of Justice Certificate of Achievement 66

Administrative Assistant Certificate of Achievement 130

Administrative Emeriti 300

Admission Regulations and Residency 22

Admission Requirements 22

Admissions and Registration 22

Advanced Automotive Collision Repair and Refinishing Associate of Science Degree 90

Advanced Automotive Collision Repair and Refinishing Certificate of Achievement 91

Aeronautics 66

Aeronautics (AERO) 312

Airframe Maintenance Technician Certificate of Achievement 70

Alternative Sources of Credit 12

American Sign Language (ASL) 73

American Sign Language (ASL) 316

Android Application Security Support Specialist Certificate of Achievement 131

Anthropology 74

Anthropology (ANTHRO) 316

Anthropology Associate of Arts Transfer Degree 75

Applications Procedures 26

Arabic 76

Arabic (ARAB) 318

Architecture and Environmental Design 77

Architecture and Environmental Design Associate of Science Degree ... 80

Architecture (ARCH) 318

Art 81

Art (ART) 320

Art Associate of Arts Degree 86

Assessment Appointment 26

Associate Degree Graduation Requirements 45

Associate Degrees for Transfer 51

Astronomy 89

Astronomy Associate of Science Degree 89

Astronomy (ASTRON) 325

Attendance 12

Auditing Courses 24

Automatic and Manual Transmission Associate of Science Degree 95

Automatic and Manual Transmission Certificate of Achievement 96

Automotive Collision 89

Automotive Interiors (AUTOIN) 325

Automotive Interiors Certificate of Achievement 91

Automotive Interiors Certificate of Completion 91

Automotive Technician Associate of Science Degree 96

Automotive Technician Certificate of Achievement 97

Automotive Technology 93

Automotive Technology (AUTO) 325

Aviation Maintenance Technician Associate of Science Degree 70

Aviation Maintenance Technician Certificate of Achievement 71

Avionics Technology Associate of Science Degree 155

Avionics Technology Certificate of Achievement 155

B

Baking Business Certificate of Achievement 144

Baking Certificate of Achievement 144

Basic Automotive Collision Repair and Refinishing Associate of Science Degree 92

Basic Automotive Collision Repair and Refinishing Certificate of Achievement 92

Basic Machine Operator Certificate of Career Preparation	233	Cisco Certified Network Associate Certificate of Career Preparation ...	131
Basic Operation Computerized Numerical Control (CNC) Certificate of Achievement	233	CIT - Management Information Systems Associate of Science Degree .	131
Basic Peace Officer Certificate of Achievement	265	CIT - Management Information Systems Certificate of Achievement ...	132
Basic Waterworks Certificate of Completion	288	CIT - Office Technology Associate of Arts Degree	132
Biology	99	Classification of Student Load	12
Biology Associate of Science Degree	102	College General	9
Biology Associate of Science Transfer Degree	102	Communication Engineering Technology Associate of Science Degree	156
Biology (BIOL)	328	Communication Engineering Technology Certificate of Achievement ..	156
Bookkeeping Certificate of Career Preparation	63	Communication Studies	123
Building Information and 3D Modeling Certificate of Achievement	80	Communication Studies Associate of Arts Transfer Degree	125
Building Information Management (BIM) Certificate of Achievement	81	Communication Studies (COMMST)	337
Business Administration	103	Computer Engineering Technology Associate of Science Degree	157
Business Administration Associate of Arts Degree	106	Computer Engineering Technology Certificate of Achievement	157
Business Administration Associate of Science Transfer Degree	106	Computer Information Technology	125
Business Administration (BUSAD)	330	Computer Information Technology (CIT)	338
Business Administration Certificate of Achievement	107	Computer Network Support Specialist Certificate of Achievement	133
C		Computer Numerical Control - CAD & CAM Associate of Science Degree	233
California State University General Education - Breadth	52	Computer Numerical Control - CAD & CAM Certificate of Achievement .	234
Campus Map	435	Computer Science	136
Campus Safety	10	Computer Science Associate of Science Degree	138
Career Specialist Certificate of Achievement	203	Computer Science Associate of Science Transfer Degree	138
Case Management in the Public Sector Certificate of Achievement	204	Computer Science Certificate of Achievement	139
Catalog Contents	428	Computer Science (CS)	343
Chemistry	109	Computer Support Specialist Certificate of Achievement	133
Chemistry Associate of Science Degree	111	Corrections	139
Chemistry Associate of Science Transfer Degree	111	Corrections Certificate of Achievement	140
Chemistry (CHEM)	332	Corrections (CORREC)	345
Child Development	112	Course Identification Numbering System (C-ID)	20
Child Development - Associate Teacher Certificate of Achievement	116	Courses A-Z	310
Child Development - Early Intervention and Inclusion Associate of Arts Degree	117	Credit by Examination	12
Child Development - Early Intervention and Inclusion Certificate of Achievement	117	Credit Courses	20
Child Development - Family Child Care Provider Certificate of Achievement	118	Credit for Advanced Placement (AP) Examinations	13
Child Development - Infant and Toddler Certificate of Achievement	118	Credit for Courses From Other College and Universities	14
Child Development - Master Teacher Certificate of Achievement	118	Credit for DSST/DANTES (Defense Activity for Non-Traditional Education Support)	14
Child Development - School Age Certificate of Achievement	119	Credit for Military Service	15
Child Development - Site Supervisor Certificate of Achievement	120	Credit for the College Level Examination (CLEP) Program	15
Child Development - Teacher Certificate of Achievement	121	Credit for the International Baccalaureate	16
Child Development Associate of Arts Degree	122	Credit Hours (Units)	12
Child Development (CD)	333	Criminal Justice	141
Chinese	123	Criminal Justice (CRMJUS)	345
		Culinary Arts	142

Culinary Arts Associate of Arts Degree	145	ESL Integrated Skills - Beginning Certificate of Completion	170
Culinary Arts Certificate of Achievement	145	F	
Culinary Arts (CULART)	346	Faculty	300
D		Faculty / Professor Emeriti	308
Dance	147	Film Associate of Arts Degree	175
Dance (DANCE)	348	Film, Television, and Electronic Media Associate of Science Transfer Degree	175
Deferred Action for Childhood Arrivals (DACA)	22	Film, Television, and Media	173
Degree and Certificate Program Index	61	Film, Television, and Media (FTVM)	359
Design and Technical Theatre Certificate of Achievement	283	Final Examinations	17
Dietetic Aide Certificate of Achievement	179	Final Exams and Grades	17
Dietetic Service Supervisor Certificate of Achievement	179	Final Grades and Transcripts	17
Digital Forensics Certificate of Achievement	134	Financial Aid Programs	34
Discharged Members of the Armed Forces	22	Flight Operations and Management Associate of Science Degree	72
E		Flight Operations Certificate of Achievement	72
Early Childhood Education Associate of Science Transfer Degree	122	Flux Cored Arc Welding (FCAW) Certificate of Achievement	294
Economics	149	Food Preparation Certificate of Achievement	146
Economics Associate of Arts Transfer Degree	150	Food Service Certificate of Achievement	146
Economics (ECON)	349	Foods and Nutrition	178
Electric Power Technology Associate of Science Degree	158	Foods and Nutrition (FN)	361
Electric Power Technology Certificate of Achievement	158	French	180
Electricity (ELEC)	350	French (FRENCH)	362
Electricity, Electronics, and Technical Calculations	151	G	
Electronics (ELECTR)	351	Gas Metal Arc Welding (GMAW) Certificate of Achievement	294
Electronics Technology Associate of Science Degree	159	Gas Tungsten Arc Welding (GTAW) Certificate of Achievement	294
Electronics Technology Certificate of Achievement	160	General Education and Graduation Requirements	45
Engine Performance Associate of Science Degree	97	General Electrician Certificate of Achievement	160
Engine Performance Certificate of Achievement	98	Geographic Information Systems Certificate of Achievement	182
Engineering	162	Geographic Information Systems (GIS)	181
Engineering (ENGR)	353	Geographic Information Systems (GIS)	362
English	163	Geography	183
English as a Second Language (ESL)	169	Geography Associate of Arts Transfer Degree	185
English As a Second Language (ESL)	358	Geography Associate of Science Degree	186
English Associate of Arts Transfer Degree	168	Geography (GEOG)	363
English (ENGL)	353	Geology	186
Enrollment and Orientation/Assessment Process	26	Geology Associate of Science Degree	188
Entrepreneurship - General Certificate of Achievement	107	Geology Associate of Science Transfer Degree	189
Entrepreneurship - Real Estate Certificate of Achievement	108	Geology (GEOL)	365
Entrepreneurship - Tax Certificate of Achievement	108	Grades and Grade Points	18
Environmental Science	171	Graduation Catalog Rights	45
Environmental Science Associate of Science Degree	171	Graphic Design Associate of Arts Degree	87
Environmental Science Associate of Science Transfer Degree	172	Graphic Design Certificate of Achievement	87
Environmental Science (ENVT)	359		

Green Technician Certificate of Career Preparation 161

H

Health Education (HEALTH) 366

Heating, Ventilation, Air Conditioning and Refrigeration Associate of Science Degree 192

Heating, Ventilation, Air Conditioning and Refrigeration Certificate of Achievement 192

Heating, Ventilation, Air Conditioning and Refrigeration (HVAC/R) 189

Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R) 367

Heavy-Medium Duty Truck Technology Certificate of Achievement 195

Heavy/Medium Duty Clean Vehicle Technology Certificate of Achievement 196

Heavy/Medium Duty Truck Engine and Fuel Injection Technology Certificate of Achievement 196

Heavy/Medium Duty Truck Engine and Fuel Injection Technology Certificate of Completion 197

Heavy/Medium Duty Truck (HMDT) 369

Heavy/Medium Duty Truck Technology 193

Heavy/Medium Duty Truck Technology Associate of Science Degree .. 197

High School Students 22

History 197

History (HIST) 371

Home 7

How to Calculate your GPA 18

Human Services 199

Human Services Associate of Arts Degree 204

Human Services Certificate of Achievement 205

Human Services (HUMSV) 372

I

Incomplete Grades 18

Industrial Automation Certificate of Achievement 161

Industrial Maintenance Certificate of Achievement 234

Information Security and Cyber Defense Certificate of Achievement ... 134

Information Systems and Technology Associate of Science Degree ... 134

Inspection Technology 205

Inspection Technology Associate of Science Degree 207

Inspection Technology Certificate of Achievement 208

Inspection Technology Certificate of Completion 208

Inspection Technology (INSPEC) 375

Institutional Learning Outcomes 10

International Students 23

Intersegmental General Education Transfer Curriculum (IGETC) 56

iOS Application Security Support Specialist Certificate of Achievement 135

J

Job Readiness Skills Certificate of Completion 284

K

Kinesiology (Adapted) (KINA) 377

Kinesiology and Health 209

Kinesiology Associate of Arts Degree 219

Kinesiology Associate of Arts Transfer Degree 221

Kinesiology (Athletics) (KINX) 378

Kinesiology (Fitness) (KINF) 381

Kinesiology (KIN) 384

Kinesiology (Team) (KINS) 385

L

Late Registration 24

Leadership Certificate of Achievement 108

Learning Skills and Tutoring 222

Liberal Arts 222

Liberal Arts - Biological and Physical Sciences Associate of Arts Degree 223

Liberal Arts - Humanities and Fine Arts Associate of Arts Degree 224

Liberal Arts - Social and Behavioral Sciences Associate of Arts Degree 226

Library 43

Library Technology 227

Library Technology Associate of Arts Degree 228

Library Technology Certificate of Achievement 228

Library Technology (LIB) 387

M

Machine Technology Certificate of Achievement 235

Machinist Standard Associate of Science Degree 235

Machinist Standard Certificate of Achievement 235

Machinist Technology 229

Machinist Technology (MACH) 388

Mathematics 236

Mathematics Associate of Science Transfer Degree 239

Mathematics (MATH) 391

Media Development Certificate of Achievement 176

Media Production Associate of Arts Degree 176

Medical Coding and Billing Certificate of Achievement 135

Middle College High School Program 43

Modular Basic Peace Officer Certificate of Achievement 141

Music 240

Music Associate of Arts Degree 245

Music Associate of Arts Transfer Degree 246

Music (MUS)	393	Post-Production Certificate of Achievement	177
N		Powerplant Maintenance Technician Certificate of Achievement	73
Non-Degree Applicable Courses	21	Prerequisites, Corequisites, and Departmental Advisories	20
Non-Discrimination Policy	19	Preventative Maintenance Technician Certificate of Achievement	98
Non-Resident Veterans AB13	23	Probation and Dismissal	18
Nursing	247	Production Certificate of Achievement	177
Nursing Associate of Science Degree	251	Professional Baking and Management Associate of Arts Degree	146
Nursing (NURS)	399	Progress Probation	19
Nutrition and Dietetics Associate of Science Transfer Degree	180	Psychiatric Technology	268
O		Psychiatric Technology Associate of Science Degree	269
Occupational Safety and Health Act (OSHA)	252	Psychiatric Technology Certificate of Achievement	270
Oceanography	252	Psychiatric Technology (PSYTCH)	410
Oceanography (OCEAN)	402	Psychology	270
Office Technology Fundamentals Certificate of Completion	135	Psychology Associate of Arts Transfer Degree	272
Online Education	43	Psychology (PSYCH)	411
Open Enrollment Policy	20	R	
OSHA (OSHA)	402	Reading and Study Skills	273
Out-of-State Students	23	Reading and Study Skills (READ)	412
P		Readmission After Disqualification	19
Pass/No Pass	18	Real Estate	273
Payment of Fees	24	Real Estate Associate of Arts Degree	275
Pharmacy Technology	253	Real Estate Certificate of Achievement	275
Pharmacy Technology Associate of Science Degree	254	Real Estate (REALST)	413
Pharmacy Technology Certificate of Achievement	255	Refrigeration Service Engineer Society (HVAC) Certificate of Achievement	193
Pharmacy Technology (PHT)	403	Refunds	25
Philosophy Associate of Arts Transfer Degree	257	Registration	24
Philosophy of General Education	45	Religious Studies (RELIG)	414
Philosophy (PHIL)	404	Repeated Courses	21
Philosophy/Religious Studies	255	Residence Requirements	23
Phlebotomy	258	Restaurant Service Certificate of Achievement	147
Phlebotomy Certificate of Completion	259	Retail Management Certificate of Achievement	109
Physics	259	S	
Physics Associate of Science Degree	260	San Bernardino Valley College Foundation	11
Physics Associate of Science Transfer Degree	261	Services for Students	28
Physics (PHYSIC)	404	Sexual Harassment Policy	20
Pipe Welding Certificate of Achievement	295	Shielded Metal Arc Welding (SMAW) Certificate of Achievement	295
Police Science	261	Smart Systems Automation Technology Certificate of Completion	162
Police Science (POLICE)	405	Social Media Field Production Certificate of Achievement	177
Policy on the Guided Self-Placement Process/Assessment	26	Social Media Narrative Production Certificate of Achievement	178
Political Science	265	Social Media Studio Production Certificate of Achievement	178
Political Science Associate of Arts Transfer Degree	267	Sociology	276
Political Science (POLIT)	409		

Sociology Associate of Arts Transfer Degree	277	Water Supply Technology (WST)	420
Sociology (SOC)	415	Water Technology Associate of Science Degree	290
Spanish	278	Water Use Specialist Certificate of Completion	290
Spanish Associate of Arts Transfer Degree	279	Web and Multimedia Design Certificate of Achievement	88
Spanish (SPAN)	416	Web Application Security Support Specialist Certificate of Achievement	136
STEM Program	43	Welding Inspection Technology Certificate of Achievement	295
Street Rod (AUTOST)	417	Welding Job Readiness Certificate of Completion	296
Street Rod Construction Certificate of Achievement	92	Welding Technology	291
Street Rod Construction Certificate of Completion	92	Welding Technology Associate of Science Degree	296
Student Awards and Honors	42	Welding Technology Certificate of Achievement	297
Student Development	280	Welding Technology (WELD)	424
Student Development (SDEV)	417	Wheel Alignment and Brakes Associate of Science Degree	98
Student Orientation Session	26	Wheel Alignment and Brakes Certificate of Achievement	99
Student Rights and Responsibilities	36	Work Experience	297
Student Success and Support Program (SSSP)	40	Work Experience (WKEXP)	427
Student Success Center	44	Workforce Literacy Skills Certificate of Completion	285
Student Support Programs and Services	28	Writing Center	44
Studio Arts Associate of Arts Transfer Degree	87		
T		Z	
Technical Calculations (TECALC)	418	Zero Net Energy Certificate of Achievement	162
Television Associate of Arts Degree	178	Zero Textbook Cost Degree Program (Z DEGREE)	44
Theatre Arts	281		
Theatre Arts Associate of Arts Transfer Degree	283		
Theatre Arts (THART)	418		
Tool & Die Associate of Science Degree	236		
Tool & Die Certificate of Achievement	236		
Transfer Information	50		
Transfer of Credit	17		
U			
Use of Image, Likeness or Voice Captured at Public Events	11		
V			
Vehicle Restoration (AUTORS)	420		
Veterans	25		
Vocational Certificate Programs	50		
Vocational Education	284		
Vocational Education (VOCED)	420		
W			
Waitlist	24		
Wastewater Technology Certificate of Completion	289		
Water Supply Technology	285		
Water Supply Technology Certificate of Achievement	289		

Jul 2020						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Aug 2020						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

Sep 2020						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

Oct 2020						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Nov 2020						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

Dec 2020						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Jan 2021						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Feb 2021						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28						

Mar 2021						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Apr 2021						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

May 2021						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

Jun 2021						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

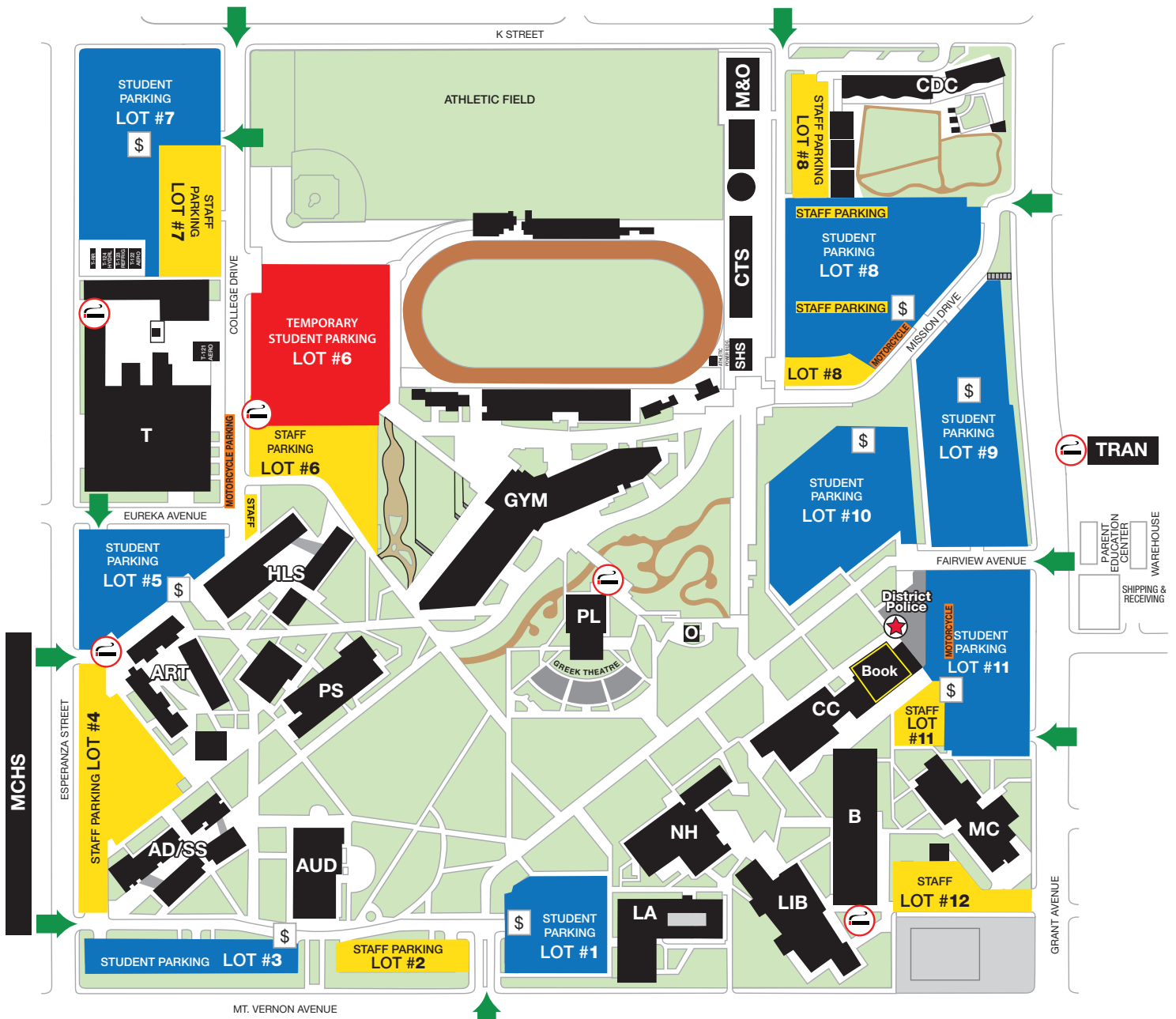
LEGEND

Flex Days	Aug 11, Jan 13		
In-Service Days	Aug 12 – 14, Jan 14 – 15, Apr 13, May 26 (Commencement)		
Term Start Days	Aug 17 (Fall) and Jan 19 (Spring)		
Final Exam Weeks	Dec 12 – 18 (Fall) and May 19 – 25 (Spring)		
Recesses	Nov 23 – 25 (Thanksgiving) and March 22 – 27 (Spring Break)		
Holidays	Jul 3 (Ind. Day Observed)	Sep 7 (Labor Day)	Nov 11 (Veterans Day)
	Nov 26 – 28 (Thanksgiving)	Dec 24 – Jan 1 (Winter Break)	Jan 18 (MLK Day)
	Feb 12 (Lincoln's Bday)	Feb 15 (Washington's Bday)	May 31 (Memorial Day)

This side is for quick reference only (see reverse for the Official SBCCD Academic Calendar)

San Bernardino Valley College

701 South Mount Vernon • San Bernardino, CA 92410 • (909) 384-4400



Check our website: www.valleycollege.edu for map updates.

ARROWS DESIGNATE STUDENT PARKING LOT ENTRANCES

INDICATES PARKING PERMIT DISPENSER

INDICATES APPROVED SMOKING AREAS
This is a smoke-free campus - smoking in non-designated areas or buildings may result in the issuance of a citation (Board Policy #3570; Government Code #7597)

DISTRICT POLICE
 Campus Center Rm. 100
 (909) 384-4491

Building Symbols

AD/SS..... Administration/Student Services (Note: AD rooms are located in AD/SS)	LIB Library
ART.....Art Center	MC.....Media/Communications
AUD..... Auditorium	MCHS..... Middle College High School
B..... Business	M&O..... Maintenance & Operations
BOOK..... Bookstore	NH..... North Hall
CC..... Campus Center	O..... Observatory
CDC.....Child Development Center	PL..... Planetarium
CTS..... Computer Technology Services	PS..... Physical Sciences
GYM..... Gym	SHS..... Student Health Services
HLS..... Health & Life Science	T..... Applied Technology
LA..... Liberal Arts	TRAN..... Transportation Center

Parking permits/decals are required to park in all parking lots and on all college streets.

Parking in disabled stalls requires a valid California disabled placard and a valid SBCCD parking permit/decals.