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**SAN BERNARDINO COMMUNITY COLLEGE DISTRICT**

**TO:** Board of Trustees  
**FROM:** Bruce Baron, Chancellor  
**REVIEWED BY:** Diana Rodriguez, President, SBVC  
**PREPARED BY:** Dina Humble, Vice President, Instruction, SBVC   
**DATE:** November 14, 2019  
**SUBJECT:** Consideration of Approval of Curriculum - SBVC

**RECOMMENDATION**

It is recommended that the Board of Trustees approve the SBVC curriculum modifications.

**OVERVIEW**

The courses, certificates, and degrees at SBVC are continually being revised and updated to reflect and meet student needs.

**ANALYSIS**

These courses, certificates, and degrees have been approved for addition, modification, and deletion by the Curriculum Committee of the Academic Senate and will be included in the 2019-2020 addendum, or 2020-2021 or 2021-2022 College Catalogs.

**INSTITUTIONAL VALUES**

II. Learning Centered Institution for Student Access, Retention, and Success.

**FINANCIAL IMPLICATIONS**

None.

SAN BERNARDINO VALLEY COLLEGE  
SUBMITTED FOR BOARD OF TRUSTEE APPROVAL  
November 14, 2019

**CONTENT REVIEW**

*No Changes to the College Catalog*

ANTHRO 100	ANTHRO 106	ANTHRO 106L	ANTHRO 108
ANTHRO 109	ARCH 015	ARCH 098	ARCH 111
ARCH 130	ARCH 131	ARCH 133	ARCH 231
ARCH 233			

**Rationale:** Content Review  
**Effective:** Fall 2020

**NEW COURSE**

*Addition to the 2020-2021 College Catalog*

**Course ID:** ELECTR 600  
**Course Title:** Preparation for DC Circuit Certification  
**Hours:** 48 - 54  
**Lecture:** 48 - 54 contact hour(s) per semester  
**Prerequisite:** None  
**Catalog Description:** 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).  
**Schedule Description:** 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).  
**TOP Code:** 0934.20  
**Rationale:** This course will provide a path for the technician leading to the Associate CET credential.  
**Equate:** Course not offered at CHC.  
**Effective:** Fall 2020

**NEW COURSE**

*Addition to the 2020-2021 College Catalog*

**Course ID:** ELECTR 601  
**Course Title:** Preparation for AC Basics Certification  
**Hours:** 48 - 54  
**Lecture:** 48 - 54 contact hour(s) per semester  
**Prerequisite:** None  
**Catalog Description:** 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).  
**Schedule Description:** 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).  
**TOP Code:** 0934.20

**Rationale:** This course will provide a path for the technician leading to the Associate CET credential.  
**Equate:** Course not offered at CHC.  
**Effective:** Fall 2020

### NEW COURSE

*Addition to the 2020-2021 College Catalog*

**Course ID:** ELECTR 602  
**Course Title:** Preparation for Analog Electronics Certification  
**Hours:** 96 - 108  
**Lecture:** 96 - 108 contact hour(s) per semester  
**Prerequisite:** None  
**Catalog Description:** 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).  
**Schedule Description:** 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).  
**TOP Code:** 0934.20  
**Rationale:** This course will provide a path for the technician leading to the Associate CET credential.  
**Equate:** Course not offered at CHC.  
**Effective:** Fall 2020

### NEW COURSE

*Addition to the 2020-2021 College Catalog*

**Course ID:** ELECTR 603  
**Course Title:** Preparation for Digital Basics Certification  
**Hours:** 48 - 54  
**Lecture:** 48 - 54 contact hour(s) per semester  
**Prerequisite:** None  
**Catalog Description:** 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).  
**Schedule Description:** 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).  
**TOP Code:** 0934.20  
**Rationale:** This course will provide a path for the technician leading to the Associate CET credential.  
**Equate:** Course not offered at CHC.  
**Effective:** Fall 2020

## NEW COURSE

### *Addition to the 2020-2021 College Catalog*

<b>Course ID:</b>	<b>ELECTR 604</b>
<b>Course Title:</b>	Preparation for Comprehensive Electronics Certification
<b>Hours:</b>	48 - 54
<b>Lecture:</b>	48 - 54 contact hour(s) per semester
<b>Prerequisite:</b>	None
<b>Catalog Description:</b>	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).
<b>Schedule Description:</b>	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).
<b>TOP Code:</b>	0934.20
<b>Rationale:</b>	This course will provide a path for the technician leading to the Associate CET credential.
<b>Equate:</b>	Course not offered at CHC.
<b>Effective:</b>	Fall 2020

## NEW COURSE

### *Addition to the 2020-2021 College Catalog*

<b>Course ID:</b>	<b>HVAC/R 601</b>
<b>Course Title:</b>	HVAC/R Fundamentals
<b>Hours:</b>	96 - 108
<b>Lecture:</b>	48 - 54 contact hour(s) per semester
<b>Laboratory:</b>	48 - 54 contact hour(s) per semester
<b>Prerequisite:</b>	None
<b>Catalog Description:</b>	This noncredit course covers basic principles of refrigeration, refrigerants, refrigeration components and tools; repair and testing of refrigeration units; and basic brazing and soldering.
<b>Schedule Description:</b>	This noncredit course covers basic principles of refrigeration, refrigerants, refrigeration components and tools; repair and testing of refrigeration units; and basic brazing and soldering.
<b>TOP Code:</b>	0946.00
<b>Rationale:</b>	This is a mirrored course of HVAC/R 001 which will allow students to take this course without registration fees.
<b>Equate:</b>	Course not offered at CHC.
<b>Effective:</b>	Fall 2020

## MODIFY COURSE

### *Changes to the 2020-2021 College Catalog*

COURSE ID	COURSE TITLE
ANTHRO 102	CULTURAL ANTHROPOLOGY

**Catalog Description:** 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.

**Schedule Description:** 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.

**Rationale:** Content review, updating course descriptions.

**Equate:** ANTHRO 102 at CHC.

**Effective:** Fall 2020

COURSE ID	COURSE TITLE
ANTHRO 102H	CULTURAL ANTHROPOLOGY - HONORS

**Prerequisite:** ENGL 101 or ENGL 101H

**Catalog Description:** 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.**

**Schedule Description:** 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.**

**Rationale:** Content review, updating course descriptions and removing eligibility wording from prerequisite.

**Equate:** ANTHRO 102H at CHC.

**Effective:** Fall 2020

COURSE ID	COURSE TITLE
ANTHRO 103	ANTHROPOLOGY OF FOOD

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

**Rationale:** Content review, removing ENGL 101 or ENGL 101H departmental advisory and adding READ 015 in its place.

**Equate:** Course not offered at CHC.

**Effective:** Fall 2020

COURSE ID	COURSE TITLE
ANTHRO 106H	BIOLOGICAL ANTHROPOLOGY - HONORS

**Prerequisite:** ENGL 101 or ENGL 101H  
**Rationale:** Content review, removing departmental advisory and adding ENGL 101 or ENGL 101H as prerequisite.  
**Equate:** ANTHRO 106H at CHC.  
**Effective:** Fall 2020

COURSE ID	COURSE TITLE
ANTHRO 110	MAGIC, WITCHCRAFT, AND RELIGION

**Catalog Description:** 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.  
**Schedule Description:** 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.  
**Rationale:** Content review, updating course descriptions.  
**Equate:** ANTHRO 110 at CHC.  
**Effective:** Fall 2020

COURSE ID	COURSE TITLE
ANTHRO 125	LANGUAGE AND CULTURE

**Departmental Advisory:** READ 015 or eligibility for READ 100 as determined by the SBVC assessment process.  
**Rationale:** Content review, removing ENGL 101 or ENGL 101H departmental advisory and adding READ 015 in its place.  
**Equate:** ANTHRO 125 at CHC.  
**Effective:** Fall 2020

COURSE ID	COURSE TITLE
ANTHRO 222	INDEPENDENT STUDY IN ANTHROPOLOGY

**Directed Study:** 9 hour(s) per week  
144 - 162 hours per semester  
**Rationale:** Adding directed study hours to course outline.  
**Equate:** Course not offered at CHC.  
**Effective:** Fall 2020

COURSE ID	COURSE TITLE
ANTHRO 223	INDEPENDENT STUDY IN ANTHROPOLOGY – GUIDED RESEARCH

**Catalog Description:** 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.

**Rationale:** Updating catalog description.

**Equate:** Course not offered at CHC.

**Effective:** Fall 2020

COURSE ID	COURSE TITLE
ARCH 110	INTRODUCTION TO ARCHITECTURE

**Departmental Advisory:** None

**Rationale:** Content review, removing ENGL 101 as departmental advisory.

**Equate:** Course not offered at CHC.

**Effective:** Fall 2020

COURSE ID	COURSE TITLE
ARCH 145	HISTORY OF ARCHITECTURE: EARLY DESIGN THROUGH GOTHIC

**Departmental Advisory:** ENGL 101 or ENGL 101H

**Catalog Description:** 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.

**Schedule Description:** This course is a survey of Western architectural history from the early Egyptians through the Gothic period, including 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.

**Rationale:** Content review, updating to align with Cal Poly Pomona.

**Equate:** Course not offered at CHC.

**Effective:** Fall 2020

COURSE ID	COURSE TITLE
ARCH 145H	HISTORY OF ARCHITECTURE: EARLY DESIGN THROUGH GOTHIC - HONORS

**Prerequisite:** ENGL 101 or ENGL 101H

**Catalog Description:** 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.**

**Schedule Description:** 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.**

**Rationale:** Content review, updating to align with Cal Poly Pomona.  
**Equate:** Course not offered at CHC.  
**Effective:** Fall 2020

COURSE ID	COURSE TITLE
ARCH 146	HISTORY OF ARCHITECTURE: RENAISSANCE THROUGH MODERN

**Departmental Advisory:** ENGL 101 or ENGL 101H  
**Catalog Description:** 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.

**Schedule Description:** 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.

**Rationale:** Content review, updating to align with Cal Poly Pomona.  
**Equate:** Course not offered at CHC.  
**Effective:** Fall 2020

COURSE ID	COURSE TITLE
ARCH 146H	HISTORY OF ARCHITECTURE: RENAISSANCE THROUGH MODERN - HONORS

**Prerequisite:** ENGL 101 or ENGL 101H  
**Catalog Description:** 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.**

**Schedule Description:** 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.**

**Rationale:** Content review, updating to align with Cal Poly Pomona.  
**Equate:** Course not offered at CHC.  
**Effective:** Fall 2020



COURSE ID	COURSE TITLE
CIT 144	MEDICAL TERMINOLOGY

**Departmental Advisory:** READ 015  
**Rationale:** Content review, updating Departmental Advisory from ENGL 015 to READ 015.  
**Equate:** AH 101 at CHC.  
**Effective:** Fall 2020

COURSE ID	COURSE TITLE
ENGL 086	STRATEGIES FOR COLLEGE COMPOSITION

**Catalog Description:** 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.  
**Schedule Description:** 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.  
**Rationale:** Updating to Pass/No Pass  
**Equate:** Course not offered at CHC.  
**Effective:** Fall 2020

COURSE ID	COURSE TITLE
ENGL 087	FUNDAMENTALS FOR COLLEGE COMPOSITION

**Catalog Description:** 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.  
**Schedule Description:** 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.  
**Rationale:** Updating to Pass/No Pass  
**Equate:** Course not offered at CHC.  
**Effective:** Fall 2020

COURSE ID	COURSE TITLE
HVAC/R 001	HVAC/R FUNDAMENTALS

**Catalog Description:** This course covers basic principles of refrigeration, refrigerants, refrigeration components and tools; repair and testing of refrigeration units; and basic brazing and soldering.  
**Schedule Description:** This course covers basic principles of refrigeration, refrigerants, refrigeration components and tools; repair and testing of refrigeration units; and basic brazing and soldering.  
**Rationale:** Content review, updating textbooks and removing formerly note from course descriptions.  
**Equate:** Course not offered at CHC.  
**Effective:** Fall 2020

COURSE ID	COURSE TITLE
HVAC/R 002	DOMESTIC MECHANICAL REFRIGERATION

**Catalog Description:** 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.

**Schedule Description:** 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.

**Rationale:** Content review, updating textbooks and removing formerly note from course descriptions.

**Equate:** Course not offered at CHC.

**Effective:** Fall 2020

COURSE ID	COURSE TITLE
HVAC/R 003	COMMERCIAL MECHANICAL REFRIGERATION

**Catalog Description:** 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.

**Schedule Description:** 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.

**Rationale:** Content review, updating textbooks and removing formerly note from course descriptions.

**Equate:** Course not offered at CHC.

**Effective:** Fall 2020

COURSE ID	COURSE TITLE
HVAC/R 004	ELECTRICAL FUNDAMENTALS FOR HVAC/R

**Catalog Description:** 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.

**Schedule Description:** 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.

**Rationale:** Content review, updating textbooks and course descriptions.

**Equate:** Course not offered at CHC.

**Effective:** Fall 2020

COURSE ID	COURSE TITLE
HVAC/R 005	COMMERCIAL ELECTRIC FOR HVAC/R

**Catalog Description:** 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.

**Schedule Description:** 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.

**Rationale:** Content review, updating textbooks and removing formerly note from course descriptions.

**Equate:** Course not offered at CHC.

**Effective:** Fall 2020

COURSE ID	COURSE TITLE
HVAC/R 006	HVAC/R AIR DISTRIBUTION SYSTEMS

**Catalog Description:** 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.

**Schedule Description:** 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.

**Rationale:** Content review, updating textbooks and removing formerly note from course descriptions.

**Equate:** Course not offered at CHC.

**Effective:** Fall 2020

COURSE ID	COURSE TITLE
HVAC/R 007	WELDING FOR HVAC/R

**Catalog Description:** 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.

**Schedule Description:** 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.

**Rationale:** Content review, updating textbooks and removing formerly note from course descriptions.

**Equate:** Course not offered at CHC.

**Effective:** Fall 2020

## COURSE DELETION

ARCH 120  
BUSAD 052

ARCH 220  
BUSCAL 091

ARCH 221  
MATH 093

ARCH 250

**Rationale:** Courses are no longer offered.  
**Effective:** Fall 2020

## DISTANCE EDUCATION

ANTHRO 100  
ANTHRO 106  
ANTHRO 110  
ARCH 015  
ARCH 111  
ARCH 131  
ARCH 146  
ARCH 231  
ENGL 087

ANTHRO 102  
ANTHRO 106H  
ANTHRO 125  
ARCH 070  
ARCH 112  
ARCH 133  
ARCH 146H  
ARCH 233

ANTHRO 102H  
ANTHRO 108  
ANTHRO 222  
ARCH 098  
ARCH 113  
ARCH 145  
ARCH 212  
CIT 144

ANTHRO 103  
ANTHRO 109  
ANTHRO 223  
ARCH 110  
ARCH 130  
ARCH 145H  
ARCH 213  
ENGL 086

**Rationale:** **100% ONLINE**  
One of the planning themes of San Bernardino Valley College (SBVC) is access. For career technical courses, the issue of scheduling is crucial. Students working the night shift can only take class in the morning while those working traditional day schedules can only take evening classes. Given these variables and difficult schedules, students need the flexibility of time that an online class affords. An asynchronous online class allows students to study when their schedules allow and where they have the space and materials to do so effectively. The online delivery method of these courses supports the mission of SBVC by providing access to education to a diverse community of learners who find themselves in a community with complicated lives and difficult and demanding schedules and responsibilities.

**Effective:** Fall 2020

## MODIFY CERTIFICATE

### 3D MODELING AND DESIGN CERTIFICATE

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.

**REQUIRED COURSES:**

		<b>Units</b>
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

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**Total Units** **12**

*This is a Gainful Employment Program*

**Rationale:** Content Review.

Effective: Fall 2020

## MODIFY CERTIFICATE

### BUILDING INFORMATION AND 3D MODELING CERTIFICATE

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.

#### REQUIRED COURSES:

	<b>Units</b>
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
<b>or</b>	
ARCH 146H Architecture History: Renaissance to Modern - Honors	3

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**Total Units** **17**

*This is a Gainful Employment Program*

**Rationale:** Content Review.  
**Effective:** Fall 2020

## MODIFY CERTIFICATE

### BUILDING INFORMATION MANAGEMENT (BIM) CERTIFICATE

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.

#### REQUIRED COURSES:

	<b>Units</b>
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

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**Total Units** **12**

*This is a Gainful Employment Program*

**Rationale:** Content Review.  
**Effective:** Fall 2020

## MODIFY CERTIFICATE

### HEATING, VENTILATION, AIR CONDITIONING AND REFRIGERATION CERTIFICATE

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 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.

#### REQUIRED COURSES:

	<b>Units</b>
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)	0

**Students must be eligible for MATH 102 or higher as determined by the SBVC assessment process, if not, choose one course below:**

	<b>Units</b>
MATH 095 Intermediate Algebra	4
MATH 096 Elementary and Intermediate Algebra	5
TECALC 087 Technical Calculations	4

#### 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
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<b>Total Units</b>	<b>27 - 32</b>
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*This is a Gainful Employment Program*

**Rationale:** Content Review.  
**Effective:** Fall 2020

## MODIFY DEGREE

### 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.

#### REQUIRED COURSES:

		<b>Units</b>
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
	<b>or</b>	
ARCH 145H	History of Architecture: Early Design through Gothic - Honors	3
ARCH 146	History of Architecture: Renaissance through Modern	3
	<b>or</b>	
ARCH 146H	Architecture History: Renaissance to Modern - Honors	3
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
	<b>or</b>	
ENGL 102H	Intermediate Composition and Critical Thinking - Honors	4
MATH 103	Plane Trigonometry	4
PHYSIC 151	General Physics for the Life Sciences I	4

#### RECOMMENDED COURSES:

		<b>Units</b>
ARCH 015	Survey of Design and Drafting Software Applications	2
ARCH 070	Portfolio Design	1
COMMST 100	Elements of Public Speaking	3
	<b>or</b>	
COMMST 100H	Elements of Public Speaking - Honors	3
COMMST 125	Critical Thinking Through Argumentation and Debate	3
MATH 108	Introduction to Probability and Statistics	4
	<b>or</b>	
MATH 151	Precalculus	4

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<b>Total Units</b>		<b>48</b>
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**Rationale:** Content Review.  
**Effective:** Fall 2020

## MODIFY DEGREE

### 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).

#### REQUIRED COURSES:

	Units
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)	0

**Students must be eligible for MATH 102 or higher as determined by the SBVC assessment process, if not, choose one course below:**

	Units
MATH 095 Intermediate Algebra	4
MATH 096 Elementary and Intermediate Algebra	5
TECALC 087 Technical Calculations	4

#### RECOMMENDED COURSE:

**Students are encouraged to take this course to augment their knowledge of air conditioning and heating:**

	Units
AUTO 056 Automotive Heating and Air Conditioning	4

**Total Units** 27 - 32

**Rationale:** Content Review.

**Effective:** Fall 2020

## MODIFY DEGREE

### LIBERAL ARTS - BIOLOGICAL & PHYSICAL SCIENCES ASSOCIATE OF ARTS DEGREE

The Associate Degree in Liberal Arts is designed for students who wish to pursue a broad knowledge of liberal arts and sciences plus additional coursework in an "Area of Emphasis". The area of emphasis includes the following options: Biological and Physical Science; Social and Behavioral Sciences; and Humanities and Fine Arts. In order to earn an Associate of Arts Degree in Liberal Arts the following must be completed: 1. Students must complete one of the general education breadth patterns (SBVC Graduation requirements, CSU-GE, or IGETC). Note: Students planning to transfer to the California State University (CSU) or University of California (UC) systems are advised to complete either the CSU-GE or IGETC general education patterns. 2. Students must complete 18 units in one "Area of Emphasis". For depth of study, a minimum of two courses in one discipline is required. Note: All courses used to satisfy the area of emphasis for the Associate degree must be completed with a grade of "C" or higher. Additional notes: Where appropriate, courses in the "Area of Emphasis" may also be counted in a general education breadth pattern. 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 towards graduation requirements. Students pursuing multiple areas of emphasis can only be counted in one area only.



## A. 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.

<b>Anthropology (ANTHRO)</b>		<b>Units</b>
ANTHRO 106	Biological Anthropology	3
	<b>or</b>	
ANTHRO 106H	Biological Anthropology - Honors	3
ANTHRO 106L	Biological Anthropology Laboratory	1
<b>Astronomy (ASTRON)</b>		<b>Units</b>
ASTRON 120	Introduction to Astronomy	3
ASTRON 125	Astronomy Laboratory	1
<b>Biology (BIOL)</b>		<b>Units</b>
BIOL 100	General Biology	4
BIOL 102	Human Biology	3
BIOL 104	Human Ecology	3
BIOL 109	History of Life	4
	<b>or</b>	
BIOL 109H	History of Life - Honors	4
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
BIOL 292	Cell Culture Techniques	4
<b>Chemistry (CHEM)</b>		<b>Units</b>
CHEM 101	Introductory Chemistry	4
CHEM 104	Introduction to Organic Chemistry and Biochemistry	4
	<b>or</b>	
CHEM 104H	Introduction to Organic Chemistry and Biochemistry - Honors	4
CHEM 105	Introduction to General, Organic and Biochemistry	5
CHEM 110	Environmental and Consumer Chemistry	3
CHEM 150	General Chemistry I	5
	<b>or</b>	
CHEM 150H	General Chemistry I - Honors	5
CHEM 151	General Chemistry II	5

	<b>or</b>		
CHEM 151H	General Chemistry II - Honors		5
CHEM 212	Organic Chemistry I		4
	<b>or</b>		
CHEM 212H	Organic Chemistry I - Honors		4
CHEM 213	Organic Chemistry II		4
	<b>or</b>		
CHEM 213H	Organic Chemistry II - Honors		4
<b>Economics (ECON)</b>			<b>Units</b>
ECON 208	Business and Economic Statistics		4
<b>Geography (GEOG)</b>			<b>Units</b>
GEOG 110	Physical Geography		3
GEOG 111	Physical Geography Laboratory		1
	<b>or</b>		
GEOG 111H	Physical Geography Laboratory - Honors		1
GEOG 114	Weather and Climate		4
<b>Geology (GEOL)</b>			<b>Units</b>
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 National Parks and Monuments		3
<b>Mathematics (MATH)</b>			<b>Units</b>
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
<b>Oceanography (OCEAN)</b>			<b>Units</b>
OCEAN 101	Elements of Oceanography		3
OCEAN 111	Elements of Oceanography Laboratory		1
<b>Physical Science (PS)</b>			<b>Units</b>
PS 101	Introduction to Physical Science		3
<b>Physics (PHYSIC)</b>			<b>Units</b>
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 200	Physics I		6
PHYSIC 201	Physics II		6
<b>Psychology (PSYCH)</b>			<b>Units</b>

PSYCH 105	Statistics for the Behavioral Sciences	4
Completed Fall 2009 or Later		0
PSYCH 141	Introduction to Biological Psychology	3
<b>Total Units</b>		<b>18</b>

**Rationale:** Updating to include newly approved courses.  
**Effective:** Fall 2019

## MODIFY DEGREE

### LIBERAL ARTS - HUMANITIES & FINE ARTS ASSOCIATE OF ARTS DEGREE

The Associate Degree in Liberal Arts is designed for students who wish to pursue a broad knowledge of liberal arts and sciences plus additional coursework in an "Area of Emphasis". The area of emphasis includes the following options: Biological and Physical Science; Social and Behavioral Sciences; and Humanities and Fine Arts. In order to earn an Associate of Arts Degree in Liberal Arts the following must be completed: 1. Students must complete one of the general education breadth patterns (SBVC Graduation requirements, CSU-GE, or IGETC). Note: Students planning to transfer to the California State University (CSU) or University of California (UC) systems are advised to complete either the CSU-GE or IGETC general education patterns. 2. Students must complete 18 units in one "Area of Emphasis". For depth of study, a minimum of two courses in one discipline is required. Note: All courses used to satisfy the area of emphasis for the Associate degree must be completed with a grade of "C" or higher. Additional notes: Where appropriate, courses in the "Area of Emphasis" may also be counted in a general education breadth pattern. 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 towards graduation requirements. Students pursuing multiple areas of emphasis can only count course in one area only.

#### B. 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.

		<b>Units</b>
<b>American Sign Language (ASL)</b>		
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
<b>Anthropology (ANTHRO)</b>		<b>Units</b>
ANTHRO 108	North American Indians	3
ANTHRO 109	Visual Culture and Art	3
ANTHRO 110	Magic, Witchcraft, and Religion	3
<b>Arabic (ARAB)</b>		<b>Units</b>
ARAB 101	College Arabic I	5
ARAB 102	College Arabic II	5
<b>Architecture (ARCH)</b>		<b>Units</b>
ARCH 145	History of Architecture: Early Design through Gothic	3
	or	

ARCH 145H	History of Architecture: Early Design through Gothic - Honors	3
ARCH 146	History of Architecture: Renaissance through Modern	3
	<b>or</b>	
ARCH 146H	Architecture History: Renaissance to Modern - Honors	3
<b>Art (ART)</b>		<b>Units</b>
ART 100	Art History: The Stone Age to the Middle Ages	3
ART 102	Art History: Renaissance to Present	3
	<b>or</b>	
ART 102H	Art History: Renaissance to Present - Honors	3
ART 103	Art Appreciation	3
ART 105	History of Modern Art	3
ART 107	Art History: Africa, Asia, the Americas, and Oceania	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
<b>Chinese (CHIN)</b>		<b>Units</b>
CHIN 101	College Mandarin Chinese I	5
CHIN 102	College Mandarin Chinese II	5
<b>Dance (DANCE)</b>		<b>Units</b>
DANCE 200	Dance History and Appreciation	3
<b>English (ENGL)</b>		<b>Units</b>
ENGL 151	Freshman Composition and Literature	3
ENGL 151H	Freshman Composition and Literature-Honors	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 281	World Literature 17th Century to Present	3
<b>French (FRENCH)</b>		<b>Units</b>
FRENCH 101	College French I	5
FRENCH 102	College French II	5
<b>History (HIST)</b>		<b>Units</b>
HIST 100	United States History to 1877	3
<b>or</b>		
HIST 100H	United States History to 1877 - Honors	3
HIST 101	United States History: 1865 to Present	3
<b>or</b>		
HIST 101H	United States History: 1865 to Present - Honors	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
<b>Music (MUS)</b>		<b>Units</b>
MUS 100	Music Appreciation	3
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 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 117A	Elementary Acoustic Guitar	1
MUS 121	Music History and Literature-Middle Ages through Baroque	3
<b>or</b>		
MUS 121H	Music History and Literature - Middle Ages through Baroque - Honors	3
MUS 122	Music History and Literature - Classic through Contemporary	3
<b>or</b>		
MUS 122H	Music History and Literature - Classic through Contemporary - Honors	3
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 201	Music Theory III: Basic Harmony	3
MUS 202	Music Theory IV: Harmony	3
MUS 201L	Musicianship III	1
MUS 202L	Musicianship IV	1
MUS 210	Conducting	3
MUS 241x2	Applied Music II	0.5
<b>Philosophy (PHIL)</b>		<b>Units</b>
PHIL 101	Introduction to Philosophy	3
	<b>or</b>	
PHIL 101H	Introduction to Philosophy - Honors	3
PHIL 105	Introduction to Ethics	3
PHIL 112	Philosophy in Literature	3
PHIL 180	Death and Dying	3
<b>Physical Science (PS)</b>		<b>Units</b>
PS 112	Introduction to the Development of Modern Science	3
<b>Radio/Television/Film (RTVF)</b>		<b>Units</b>
RTVF 101	Introduction to Cinema	3
RTVF 132	Lighting and Cinematography	3
FTVM 122	Acting and Directing for Television and Film	3
<b>Religious Studies (RELIG)</b>		<b>Units</b>
RELIG 100	Introduction to Religious Studies	3
	<b>or</b>	
RELIG 100H	Introduction to Religious Studies-Honors	3
RELIG 101	Introduction to World Religions	3
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
<b>Spanish (SPAN)</b>		<b>Units</b>
SPAN 101	College Spanish I	5
	<b>or</b>	
SPAN 101H	College Spanish I - Honors	5
SPAN 102	College Spanish II	5

	<b>or</b>	
SPAN 102H	College Spanish II - Honors	5
SPAN 103	College Spanish III	4
	<b>or</b>	
SPAN 103H	College Spanish III - Honors	4
SPAN 104	College Spanish IV	4
SPAN 157	Spanish for Heritage Speakers I	4
SPAN 158	Spanish for Heritage Speakers II	4
<b>Theatre Arts (THART)</b>		<b>Units</b>
THART 100	Introduction to the Theatre	3
THART 105	Script Analysis	3
THART 110	Voice and Diction for Actors	3
THART 114x4	Rehearsal and Performance	4
THART 120	Acting Fundamentals I	3
THART 121	Acting Fundamentals II	3
THART 131	Sound for Stage and Screen	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	Improvational Acting	3
<b>Total Units</b>		<b>18</b>

**Rationale:** Updating to include newly approved courses.  
**Effective:** Fall 2019

## MODIFY DEGREE

### LIBERAL ARTS - SOCIAL & BEHAVIORAL SCIENCE ASSOCIATE OF ARTS DEGREE

The Associate Degree in Liberal Arts is designed for students who wish to pursue a broad knowledge of liberal arts and sciences plus additional coursework in an "Area of Emphasis". The area of emphasis includes the following options: Biological and Physical Science; Social and Behavioral Sciences; and Humanities and Fine Arts. In order to earn an Associate of Arts Degree in Liberal Arts the following must be completed: 1. Students must complete one of the general education breadth patterns (SBVC Graduation requirements, CSU-GE, or IGETC). Note: Students planning to transfer to the California State University (CSU) or University of California (UC) systems are advised to complete either the CSU-GE or IGETC general education patterns. 2. Students must complete 18 units in one "Area of Emphasis". For depth of study, a minimum of two courses in one discipline is required. Note: All courses used to satisfy the area of emphasis for the Associate degree must be completed with a grade of "C" or higher. Additional notes: Where appropriate, courses in the "Area of Emphasis" may also be counted in a general education breadth pattern. 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 towards graduation requirements. Students pursuing multiple areas of emphasis can only count course in one area only.

## C. 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.

		<b>Units</b>
<b>Anthropology (ANTHRO)</b>		
ANTHRO 100	Introduction to Archaeology	3
ANTHRO 102	Cultural Anthropology	3
<b>or</b>		
ANTHRO 102H	Cultural Anthropology - Honors	3
ANTHRO 103	Anthropology of Food	3
ANTHRO 106	Biological Anthropology	3
<b>or</b>		
ANTHRO 106H	Biological Anthropology - Honors	3
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
<b>Child Development (CD)</b>		<b>Units</b>
CD 105	Child Growth and Development	3
<b>or</b>		
CD 105H	Child Growth and Development-Honors	3
CD 108	Early Childhood Development	3
CD 126	Child, Family, and the Community	3
<b>Communication Studies (COMMST)</b>		<b>Units</b>
COMMST 135	Mass Media and Society	3
COMMST 174	Intercultural Communication	3
COMMST 176	Gender Differences in Communication	3
<b>Economics (ECON)</b>		<b>Units</b>
ECON 100	Introduction to Economics	3
ECON 200	Principles of Macroeconomics	3
<b>or</b>		
ECON 200H	Principles of Macroeconomics - Honors	3
ECON 201	Principles of Microeconomics	3
<b>or</b>		
ECON 201H	Principles of Microeconomics - Honors	3
<b>Geography (GEOG)</b>		<b>Units</b>
GEOG 102	Cultural Geography	3
GEOG 106	Geographic Perspectives on the Environment	3
GEOG 118	California Geography	3
GEOG 120	World Regional Geography	3
<b>History (HIST)</b>		<b>Units</b>
HIST 100	United States History to 1877	3
<b>or</b>		



HIST 100H	United States History to 1877 - Honors	3
HIST 101	United States History: 1865 to Present	3
	<b>or</b>	
HIST 101H	United States History: 1865 to Present - Honors	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
<b>Philosophy (PHIL)</b>		<b>Units</b>
PHIL 180	Death and Dying	3
<b>Political Science (POLIT)</b>		<b>Units</b>
POLIT 100	American Politics	3
POLIT 110	Introduction to Political Theory	3
	<b>or</b>	
POLIT 110H	Introduction to Political Theory Honors	3
POLIT 140	Introduction to Comparative Politics	3
POLIT 141	Introduction to World Politics	3
	<b>or</b>	
POLIT 141H	Introduction to World Politics - Honors	3
<b>Psychology (PSYCH)</b>		<b>Units</b>
PSYCH 100	General Psychology	3
	<b>or</b>	
PSYCH 100H	General Psychology - Honors	3
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
<b>Radio/Television/Film (RTVF)</b>		<b>Units</b>
RTVF 100	Introduction to Electronic Media	3
<b>Religious Studies (RELIG)</b>		<b>Units</b>
RELIG 110	Magic, Witchcraft, and Religion	3
RELIG 135	Religion in America	3
RELIG 180	Death and Dying	3
<b>Sociology (SOC)</b>		<b>Units</b>
SOC 100	Introduction to Sociology	3
	<b>or</b>	
SOC 100H	Introduction to Sociology - Honors	3
SOC 110	Social Problems	3
	<b>or</b>	

SOC 110H	Social Problems - Honors	3
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
<b>Total Units</b>		<b>18</b>

**Rationale:** Updating to include newly approved courses.  
**Effective:** Fall 2019

### PROGRAM DELETIONS

#### Architecture and Environmental Design Associate of Arts Degree Computer-Aided Drafting Technician Certificate

**Rationale:** Programs are to be replaced with new certificates or degrees.  
**Effective:** Fall 2020

### COURSE CORRECTION

*Addition to the 2020-2021 College Catalog*

COURSE ID	COURSE TITLE
ARCH 270	PORTFOLIO DESIGN

**Course ID:** ARCH 070

**Catalog Description:** 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)

**Schedule Description:** 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)

**Prerequisite:** ARCH 112 or ARCH 113

**Rationale:** Course was previously approved as a new course, but the department would like the two courses to equate, so a modification of ARCH 270 to ARCH 070 is required.

**Previous Board Approval:** 04/11/2019

**Effective:** Fall 2020

## COURSE CORRECTION

*Addition to the 2020-2021 College Catalog*

COURSE ID	COURSE TITLE
ARCH 100	ENVIRONMENTAL DESIGN

<b>Course ID:</b>	<b>ARCH 112</b>
<b>Lecture:</b>	2 contact hour(s) per week 32 - 36 contact hours per semester
<b>Laboratory:</b>	6 contact hour(s) per week 96 - 108 contact hours per semester
<b>Departmental Advisory:</b>	None
<b>Catalog Description:</b>	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)
<b>Schedule Description:</b>	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. (Formerly ARCH 100)
<b>Rationale:</b>	Course was previously approved as a new course, but the department would like the two courses to equate, so a modification of ARCH 100 to ARCH 112 is required.
<b>Previous Board Approval:</b>	04/11/2019
<b>Effective:</b>	Fall 2020

## COURSE CORRECTION

*Addition to the 2020-2021 College Catalog*

COURSE ID	COURSE TITLE
ARCH 101	ENVIRONMENTAL DESIGN COMMUNICATION

<b>Course ID:</b>	<b>ARCH 113</b>
<b>Lecture:</b>	2 contact hour(s) per week 32 - 36 contact hours per semester
<b>Laboratory:</b>	6 contact hour(s) per week 96 - 108 contact hours per semester
<b>Departmental Advisory:</b>	ARCH 111 ENGL 101 or ENGL 101H
<b>Catalog Description:</b>	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

**Schedule Description:** instructor to build a student's range of expression, while focusing on a variety of visualization techniques and media. (Formerly ARCH 101)  
 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. (Formerly ARCH 101)

**Rationale:** Course was previously approved as a new course, but the department would like the two courses to equate, so a modification of ARCH 101 to ARCH 113 is required.

**Previous Board Approval:** 04/11/2019

**Effective:** Fall 2020

**COURSE CORRECTION**

*Addition to the 2020-2021 College Catalog*

COURSE ID	COURSE TITLE
ARCH 200	ARCHITECTURAL DESIGN I

**Course ID:** ARCH 212

**Course Title:** Architectural Design and Theory II

**Prerequisite:** ARCH 112

**Departmental Advisory:** ARCH 113

**Catalog Description:** 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)

**Schedule Description:** 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)

**Rationale:** Course was previously approved as a new course, but the department would like the two courses to equate, so a modification of ARCH 200 to ARCH 212 is required.

**Previous Board Approval:** 04/11/2019

**Effective:** Fall 2020

## COURSE CORRECTION

*Addition to the 2020-2021 College Catalog*

COURSE ID	COURSE TITLE
ARCH 201	ARCHITECTURAL DESIGN II

<b>Course ID:</b>	<b>ARCH 213</b>
<b>Course Title:</b>	Architectural Design II
<b>Prerequisite:</b>	ARCH 212
<b>Catalog Description:</b>	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)
<b>Schedule Description:</b>	Architectural design processes are explored, in addition to the relationships between a variety of programmatic models, normative building types, and technological themes within specific physical, cultural and historic contexts. This exploration includes advanced problems solving in spatial relationships, structures, and human requirements of advanced model building. (Formerly ARCH 201)
<b>Rationale:</b>	Course was previously approved as a new course, but the department would like the two courses to equate, so a modification of ARCH 201 to ARCH 213 is required.
<b>Previous Board Approval:</b>	04/11/2019
<b>Effective:</b>	Fall 2020