SAN BERNARDINO COMMUNITY COLLEGE DISTRICT

TO: Board of Trustees

FROM: Bruce Baron, Chancellor

REVIEWED BY: Diana Rodriguez, President, SBVC

PREPARED BY: Dr. James Smith, Interim Vice President, Instruction, SBVC

DATE: June 8, 2017

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 2018-2019 College Catalog.

BOARD IMPERATIVE

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

FINANCIAL IMPLICATIONS

None.

SAN BERNARDINO VALLEY COLLEGE
SUBMITTED FOR BOARD OF TRUSTEE APPROVAL
June 8, 2017

NEW DISCIPLINE

The Modern Languages Department would like to offer Chinese (Mandarin) courses for the following reasons:
1. According to UNESCO, Mandarin Chinese is the most spoken language in the world, with approximately 955 million native speakers, or 1/6 of the world's population. Spanish is second, with about 400 million speakers.
2. China has become one of the centers of an ever more increasingly global economy. According to the U.S. Census Bureau, China is the number one trade partner of the United States and many companies do business and have long-term investments there. The demand for bilingual (English/Chinese) employees is growing. Being familiar with the language and culture will increase opportunities for SBVC students.
3. Chinese is the second most-spoken foreign language in the United States after Spanish. California is the state that has the largest Chinese-American population. Understanding their culture will help Valley College contribute to a more integrated community.
4. The study of Chinese is becoming more common, even at very early levels of education. Norton Space & Science Academy, a charter school in San Bernardino, requires every enrolled student to study Mandarin. After Spanish, Chinese has become one of the most common languages studied at the high school level. Local colleges and universities recognize this and have developed impressive programs to meet the educational needs and interests of their students. Cal State San Bernardino offers numerous courses, including: three years of language; conversation; calligraphy; literature in translation; culture; and business language. Developing a Mandarin program at SBVC will help meet the language needs of the local and state communities, while bridging a potential Chinese educational gap between high schools and universities in the area.

The Curriculum Committee, through online vote, voted to approve the Chinese (Mandarin) discipline.

Effective: Fall 2018

CONTENT REVIEW
No Changes to the College Catalog

AUTO 050	AUTO 051	AUTO 052	AUTO 053
AUTO 056	AUTO 065	AUTO 066	AUTO 068
AUTO 069	AUTO 077	AUTO 084	AUTO 090
AUTO 098	CRMJUS 059	CRMJUS 060	DIESEL 021
DIESEL 022	DIESEL 023	DIESEL 024	DIESEL 026
DIESEL 028	DIESEL 035	DIESEL 038	DIESEL 064
ELEC 218C	ELECTR 220C	POLICE 002	POLICE 100
POLICE 101	POLICE 102	POLICE 103	

Rationale: Content Review
Effective: Fall 2018

MODIFY COURSE
Changes to the 2018-2019 College Catalog

COURSE ID	COURSE TITLE
AUTO 075	AUTOMATIC TRANSMISSIONS REAR WHEEL DRIVE

Lecture:	3 contact hour(s) per week
	48 - 54 contact hours per semester
Laboratory:	3 contact hour(s) per week
	48 - 54 contact hours per semester
Rationale:	Content Review.
Equate:	Course not offered at CHC.
Effective:	Fall 2018

COURSE ID	COURSE TITLE
AUTO 076	AUTOMATIC TRANSAXLES FRONT WHEEL DRIVE

Lecture:	3 contact hour(s) per week
	48 - 54 contact hours per semester
Laboratory:	3 contact hour(s) per week
	48 - 54 contact hours per semester
Rationale:	Content Review.
Equate:	Course not offered at CHC.
Effective:	Fall 2018

COURSE ID	COURSE TITLE
CRMJUS 061	RESERVE LEVEL III OFFICER

Departmental Advisory:	ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process and READ 015.
Rationale:	Content Review.
Equate:	Course not offered at CHC.
Effective:	Fall 2018

COURSE ID	COURSE TITLE
CRMJUS 070	BASIC DISPATCHER'S COURSE

Departmental Advisory:	ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process and READ 015.
Rationale:	Content Review.
Equate:	Course not offered at CHC.
Effective:	Fall 2018

COURSE ID	COURSE TITLE
ELECTR 098	ELECTRONICS WORK EXPERIENCE

Catalog Description:	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. (Formerly ELECTR 198)

Schedule Description: 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. (Formerly ELECTR 198)

Rationale: Reviewed and updated to match new regulations and industry needs.
Equate: Course not offered at CHC.
Effective: Fall 2018

COURSE ID	COURSE TITLE
RTVF 100	INTRODUCTION TO ELECTRONIC MEDIA

Catalog Description: 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.

Schedule Description: This course introduces the history, structure, function, economics, content, and evolution of radio, television, film, the internet, and new media. The course includes the social, political, regulatory, ethical, and occupational impact of electronic media.

Departmental Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

Rationale: Content review due and C-ID alignment with FTVE 100.
Equate: Course not offered at CHC.
Effective: Fall 2018

COURSE ID	COURSE TITLE
RTVF 101	INTRODUCTION TO CINEMA

Course Title: Introduction to Media Aesthetics and Cinematic Arts

Catalog Description: 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.

Schedule Description: 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.

Departmental Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

Rationale: Content review due and C-ID alignment with FTVE 105.
Equate: Course not offered at CHC.

Effective: Fall 2018

COURSE ID	COURSE TITLE
RTVF 104	BASIC WRITING FOR BROADCASTING

Catalog Description: This course provides instruction and practice in writing and editing news for radio and television, including rewriting from the internet, news sources, and other documents. Topics include how to write for speaking, writing objectively, journalism ethics, and legal issues such as libel and right to privacy.

Schedule Description: This course provides instruction and practice in writing and editing news for radio and television, including rewriting from the internet, news sources, and other documents.

Rationale: Content Review.

Equate: Course not offered at CHC.

Effective: Fall 2018

COURSE ID	COURSE TITLE
RTVF 106	MEDIA WRITING

Catalog Description: 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.

Schedule Description: 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.

Rationale: Content Review and C-ID alignment with FTVE 110.

Equate: Course not offered at CHC.

Effective: Fall 2018

COURSE ID	COURSE TITLE
RTVF 120	INTRODUCTION TO AUDIO PRODUCTION

Departmental Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

Catalog Description: 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.

Schedule Description: 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.

Rationale: Content review due and C-ID alignment with FTVE 125.

Equate: Course not offered at CHC.
Effective: Fall 2018

COURSE ID	COURSE TITLE
RTVF 121	DIGITAL AUDIO POST PRODUCTION

Prerequisite: None.
Departmental Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.
Rationale: Content Review. Updating to align with TMC.
Equate: Course not offered at CHC.
Effective: Fall 2018

COURSE ID	COURSE TITLE
RTVF 130	INTRODUCTION TO STUDIO PRODUCTION

Departmental Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.
Catalog Description: This course introduces theory, terminology and operation of a 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.
Schedule Description: This course introduces theory, terminology and operation of a 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.
Rationale: Content review due and C-ID alignment with FTVE 135.
Equate: Course not offered at CHC.
Effective: Fall 2018

COURSE ID	COURSE TITLE
RTVF 131	DIGITAL VIDEO EDITING

Departmental Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.
Catalog Description: 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.
Schedule Description: This course includes theory and practice in digital video editing techniques including exploring various editing programs; basic editing techniques; use of effects, titles, and graphics; capturing and importing; custom software settings; and exporting.
Rationale: Content Review. Updating to align with TMC.
Equate: Course not offered at CHC.
Effective: Fall 2018

COURSE ID	COURSE TITLE
RTVF 132	LIGHTING AND CINEMATOGRAPHY

Departmental Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

Catalog Description: This course provides an introduction to 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.

Schedule Description: This course introduces the student to the equipment and techniques of lighting design and motion picture cinematography using digital film. Students will work on a significant film project.

Rationale: Content Review. Updating to align with TMC.

Equate: Course not offered at CHC.

Effective: Fall 2018

COURSE ID	COURSE TITLE
RTVF 133	VIDEO FIELD PRODUCTION

Departmental Advisory: ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process.

Catalog Description: This is an introductory course in the theory, terminology, and operation of 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 on location, as well as multimedia and postproduction are also reviewed.

Schedule Description: This is an introductory course in the theory, terminology, and operation of video production. The topics include topics in composition, camera operation, portable lighting, video recorder, audio control, and editing.

Rationale: Content Review. Updating to align with TMC.

Equate: Course not offered at CHC.

Effective: Fall 2018

COURSE ID	COURSE TITLE
RTVF 220	INTERMEDIATE RADIO STATION OPERATIONS

Course Title: Radio Station Operations

Catalog Description: 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.

Schedule Description: 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.

Rationale: Content Review. Updating to align with TMC.

Equate: Course not offered at CHC.

Effective: Fall 2018

COURSE DELETION

AUTOIN 011X3   AUTOIN 013X3   AUTORS 011X3   AUTOST 011X3
BIOL 010   CD 295   ENGL 912

Rationale: Courses are no longer offered.
Effective: Fall 2017

DISTRIBUTED EDUCATION

RTVF 100   RTVF 104   RTVF 106

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 2018

MODIFY CERTIFICATE

AVIONICS TECHNOLOGY CERTIFICATE

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. 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.

REQUIRED COURSES:		Units
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	3
AERO 040	Instrument Ground School	4

ELECTR 220C	FCC Rules and Regulations	3
ELECTR 250C	Radio Transmitters, Receivers and Antennas	4
ELECTR 257C	Navigation and Communication Systems	4
Total Units		**52**

*AERO 052 & 053 can be substituted for AERO 021 & 040
This is a Gainful Employment Program

| **Rationale:** | Content Review. Updating AERO courses. |
| **Effective:** | Fall 2017 |

MODIFY CERTIFICATE

BASIC PEACE OFFICER CERTIFICATE

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). 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.

REQUIRED COURSES:		**Units**
POLICE 002	Basic Law Enforcement Academy	27.75
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		**39.75**

This is a Gainful Employment Program

| **Rationale:** | Content Review. |
| **Effective:** | Fall 2018 |

MODIFY CERTIFICATE

LIBRARY TECHNOLOGY 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 for entry-level employment in a library, assisting librarians to acquire, prepare, and organize material, and/or assisting users in finding information. In some cases, such as in small branch or school libraries, library technicians may perform any or all of these tasks on their own.

REQUIRED COURSES:		**Units**
CIT 010 *	Beginning Keyboarding	0 - 3
ENGL 055	Children's Literature	3
	or	
ENGL 155 **	Children's Literature	3
	or	

LIB 063	Survey of Literature for Library Technicians	2
LIB 062	Care and Repair of Library Materials	1
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 Media Services	4
LIB 098 ***	Library Technology Work Experience	1 - 4
LIB 110	Information Literacy and Research	2

Total Units   **22 - 29**

* or demonstrated ability to type 30 wpm for five minutes
** or any other college-level literature course
***This requirement may be waived if the student has been employed in a library for at least one year at full-time (or equivalent)

Rationale: Content Review.
Effective: Fall 2018

MODIFY CERTIFICATE

MODULAR BASIC PEACE OFFICER CERTIFICATE

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.

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

REQUIRED COURSES:		**Units**
CRMJUS 061	Reserve Level III Officer	7.5
CRMJUS 060	Reserve Level II Officer	14.25
CRMJUS 059	Reserve Level I Officer	18.5
Total Units		**40.25**

This is a Gainful Employment Program

Rationale: Content Review.
Effective: Fall 2018

NEW DEGREE

FILM, TELEVISION, AND ELECTRONIC MEDIA ASSOCIATE OF ARTS TRANSFER DEGREE, AA-T

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 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 (CSUGE) 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 CSUGE 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.

REQUIRED CORE COURSES: Select two courses (6 units)		**Units**
RTVF 100	Introduction to Electronic Media	3
	or	
COMMST 135	Mass Media and Society	3
RTVF 101	Introduction to Media Aesthetics and Cinematic Arts	3
RTVF 106	Media Writing	3
List A: Select one course from each area (6 units total)		**Units**
Audio		**Units**
RTVF 120	Introduction to Audio Production	3
RTVF 220	Radio Station Operations	3
Video or Film Production		**Units**
RTVF 130	Introduction to Studio Production	3
RTVF 133	Video Field Production	3
RTVF 132	Lighting and Cinematography	3
List B: Select one course from List A not already selected above (3 units)		**Units**
List C: Select one course (3 units)		**Units**
RTVF 102	Announcing and Performing in Electronic Media	3
RTVF 104	Basic Writing for Broadcasting	3
RTVF 121	Digital Audio Post Production	3
RTVF 131	Digital Video Editing	3

RTVF 134	Acting and Directing for Television and Film	3
RTVF 221	Broadcast Station Management	3
RTVF 222	Independent Study in Radio/Television/Film	1 - 3
RTVF 230	Intermediate Studio Production	3
RTVF 231	Advanced Video Production	3
RTVF 232	News and Film-Style Digital Video Editing	3

MAJOR TOTAL:18		**Units**
CSU GE-Breadth or IGETC for CSU Requirements: 37-39 (Total units that may be double-counted for CSU-GE or IGETC: 6)		**Units**
CSU ELECTIVES (as needed to reach 60 transferable units): 3-9		**Units**
Total Units		**60**

| **Rationale:** | We are adding to the existing degree to guarantee admission to any CSU with a similar major. |
| **Effective:** | Fall 2018 |

MODIFY DEGREE

ADVANCED AUTOMOTIVE COLLISION REPAIR AND REFINISHING AS 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).

REQUIRED COURSES:		**Units**
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 028	Damage Analysis and Estimating	3
AUTO 029	Estimating	3
AUTO 084	General Automotive Technology	4
AUTORS 010	Basic Vehicle Restoration	4
	or	
AUTOST 010	Beginning Street Rod Construction	4
RECOMMENDED COURSE:		**Units**
AUTO 056	Automotive Heating and Air Conditioning	4
Total Units		**38**

AUTO 020 may be waived through the Articulation 2+2 program with prior agreement with the auto collision and refinishing instructor.

| **Rationale:** | Content Review. |
| **Effective:** | Fall 2018 |

MODIFY DEGREE

AVIONICS TECHNOLOGY AS 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).

REQUIRED COURSES:		Units
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	3
AERO 040	Instrument Ground School	4
ELECTR 220C	FCC Rules and Regulations	3
ELECTR 250C	Radio Transmitters, Receivers and Antennas	4
ELECTR 257C	Navigation and Communication Systems	4
Total Units		**52**

*AERO 052 & 053 can be substituted for AERO 021 & 040

Rationale: Content Review. Updating AERO courses.
Effective: Fall 2017

MODIFY DEGREE

BIOLOGY ASSOCIATE OF SCIENCE TRANSFER DEGREE, AS-T

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 (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 Biology should consult with a STEM counselor or general counselor regarding the transfer process and lower division requirements. Completion of CSU GE-Breadth or STEM IGETC for the UC or CSU is required in addition to the major requirements.

REQUIRED CORE COURSES:		**Units**
BIOL 205	Cell and Molecular Biology	4
BIOL 206	Organismal Biology	4
BIOL 207	Evolutionary Ecology	4
LIST A:		**Units**
CHEM 150	General Chemistry I	5
	or	
CHEM 150H	General Chemistry I - Honors	5
	and	
CHEM 151	General Chemistry II	5
	or	
CHEM 151H	General Chemistry II - Honors	5
	and	
MATH 250	Single Variable Calculus I	4
PHYSIC 150A	General Physics for the Life Sciences I	5
PHYSIC 150B	General Physics for the Life Sciences II	5
Major Total: 36		**Units**
Total Double-Count Units: 9-10		**Units**
General Education (CSU-GE or IGETC for STEM) Unit: 31-33		**Units**
CSU electives (as needed to reach 60 transferrable units): 0-3		**Units**
Total Units		**60**

Rationale:	Based on TMC Biology, and requirements from the state need to remove List B course to be within unit requirements for degree.
Effective:	Fall 2018

MODIFY DEGREE

ENVIRONMENTAL SCIENCE AS 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).

REQUIRED COURSES:		Units
BIOL 205	Cell and Molecular Biology	4
BIOL 206	Organismal Biology	4
CHEM 150	General Chemistry I	5
	or	
CHEM 150H	General Chemistry I - Honors	5
CHEM 151	General Chemistry II	5
	or	
CHEM 151H	General Chemistry II - Honors	5
ECON 201	Principles of Microeconomics	3
	or	
ECON 201H	Principles of Microeconomics - Honors	3
	or	
POLIT 100	American Politics	3
GEOG 110	Physical Geography	3
GEOG 111	Physical Geography Laboratory	1
	or	
GEOG 111H	Physical Geography Laboratory - Honors	1
	or	
GEOL 101	Introduction to Physical Geology	3
GEOL 111	Introduction to Physical Geology Laboratory	1
MATH 250	Single Variable Calculus I	4
MATH 251	Single Variable Calculus II	4

PHYSIC 150A	General Physics for the Life Sciences I	5
PHYSIC 150B	General Physics for the Life Sciences II	5
	or	
PHYSIC 200	Physics I	6
PHYSIC 201	Physics II	6
CHOOSE TWO COURSES FROM THE FOLLOWING:		**Units**
BIOL 104	Human Ecology	3
BIOL 207	Evolutionary Ecology	4
CHEM 205	Quantitative Chemical Analysis	5
CHEM 212	Organic Chemistry I	4
	or	
CHEM 212H	Organic Chemistry I - Honors	4
CHEM 213	Organic Chemistry II	4
	or	
CHEM 213H	Organic Chemistry II - Honors	4
GEOG 130	Introduction to Geographic Information Systems (GIS)	3
	or	
GIS 130	Introduction to Geographic Information Systems (GIS)	3
MATH 108	Introduction to Probability and Statistics	4
Total Units		**49 - 54**

Rationale:	The degree is due for content review, SBVC and transfer requirements have changed, and the US Department of Education is presently auditing the Environmental Science AS Degree.	
Effective:	Fall 2017	

CORRECTION

Corrections may be necessary based off of feedback from the State Chancellor's Office and/or the ACCJC

The January 2017 Board Document contained the following errors:

Music Associate of Arts Transfer Degree, AA-T

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 (CSUGE) 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 CSUGE 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.

REQUIRED CORE COURSES: (16 Units)		**Units**
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
APPLIED MUSIC: (2 Units)		**Units**
MUS 141X2	Applied Music I	0.5
	And
MUS 241x2	Applied Music II	0.5
LARGE ENSEMBLE: (4 Units selected from the following)		**Units**
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
MAJOR TOTAL:		**22**
CSU GE-Breadth or IGETC for CSU requirements:		**37-39**
Total units that may be double-counted for CUSGE or IGETC:		**6**
CSU ELECTIVES (as needed to reach 60 transferable units):		**5-7**
Total Units		**60**

Correction: Updating per the State Chancellor's request to remove the recommended courses.
Effective: Fall 2017

Sociology Associate of Arts Transfer Degree, AA-T

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 (CSUGE) 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 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.

REQUIRED CORE COURSES: (10 - 11 UNITS)		Units
SOC 100	Introduction to Sociology	3
	or	
SOC 100H	Introduction to Sociology - Honors	3
	and	
SOC 110	Social Problems	3
	or	
SOC 110H	Social Problems - Honors	3
	and	
PSYCH 105	Statistics for the Behavioral Sciences	4
	or	
ECON 208	Business and Economic Statistics	4
	or	
MATH 108	Introduction to Probability and Statistics	4

LIST A: SELECT TWO COURSES (6 units) **Any required core course not already used**		Units
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 COURSE (3 units minimum): **Any course not used from List A:**		Units
ANTHRO 100	Introduction to Archaeology	3
ANTHRO 102	Cultural Anthropology	3
	or	

ANTHRO 102H	Cultural Anthropology - Honors	3
ANTHRO 106	Biological Anthropology	3
	or	
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
CD 105	Child Growth and Development	3
	or	
CD 105H	Child Growth and Development-Honors	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	3
ECON 201	Principles of Microeconomics	3
	or	
ECON 201H	Principles of Microeconomics - Honors	3
ENGL 102	Intermediate Composition and Critical Thinking	4
	or	
ENGL 102H	Intermediate Composition and Critical Thinking - Honors	4
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	3
HIST 101	United States History: 1865 to Present	3
	or	
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

PHIL 102	Critical Thinking and Writing	3
	or	
PHIL 103	Introduction to Logic: Argument and Evidence	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	3
POLIT 140	Introduction to Comparative Politics	3
POLIT 141	Introduction to World Politics	3
PS 112	Introduction to the Development of Modern Science	3
PSYCH 100	General Psychology	3
	or	
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
RELIG 110	Magic, Witchcraft, and Religion	3
RELIG 135	Religion in America	3
RELIG 180	Death and Dying	3
RTVF 100	Introduction to Electronic Media	3
SOC 120	Health and Social Justice	3
SOC 150	Aging and the Life Course	3
Major Total:		**19-21**
Total units that may be double-counted:		**12**
CSU GE-Breadth or IGETC for CSU requirements:		**37-39**
CSU electives (as needed to reach 60 transferable units):		**3-16**
Total Units		**60**

Correction: Updating per the State Chancellor's request to align with TMC.
Effective: Fall 2018

The March 2017 Board Document contained the following errors:

COURSE ID	COURSE TITLE
MUS 141x2	APPLIED MUSIC I

Correction: Updating effective date to Fall 2017

Kinesiology Associate of Arts Transfer Degree, AA-T
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 (CSUGE) 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 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.

REQUIRED CORE: (11 units) **Units**

KIN 200	Introduction to Physical Education and Kinesiology	3
BIOL 250	Human Anatomy and Physiology I	4
	and	
BIOL 251	Human Anatomy and Physiology II	4
	or	
BIOL 260	Human Anatomy	4
	and	
BIOL 261	Human Physiology	4

MOVEMENT BASED COURSES: (3 UNITS MINIMUM)

SELECT ONE COURSE MAXIMUM FROM ANY THREE OF THE FOLLOWING AREAS. **Units**

COMBATIVE:

KINF 190A	Beginning Tai Chi	1
KINF 190B	Intermediate Tai Chi	1
KINF 190C	Advanced Tai Chi	1

FITNESS: **Units**

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 127A	Beginning Walking for Fitness	1
KINF 127B	Intermediate Walking for Fitness	1
KINF 127C	Advanced Walking for Fitness	1
KINF 138A	Beginning Physical Fitness	1
KINF 138B	Intermediate Physical Fitness	1

KINF 138C	Advanced Physical Fitness	1
KINF 168A	Beginning Yoga	1
KINF 168B	Intermediate Yoga	1
KINF 168C	Advanced Yoga	1

INDIVIDUAL SPORTS:		**Units**
KINS 103A	Beginning Badminton	1
KINS 103B	Intermediate Badminton	1
KINS 103C	Advanced Badminton	1

TEAM SPORTS:		**Units**
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(6 UNITS MINIMUM)FROM THE FOLLOWING:		**Units**
MATH 108	Introduction to Probability and Statistics	4
	or	
ECON 208	Business and Economic Statistics	4
BIOL 100	General Biology	4
CHEM 150	General Chemistry I	5
	or	
CHEM 150H	General Chemistry I - Honors	5
KIN 231	First Aid and CPR	3
PHYSIC 150A	General Physics for the Life Sciences I	5
Major Total:		**21-24**
CSU GE-Breadth or IGETC for CSU requirements:		**37-39**
Total Units that may be Double Counted for CSU-GE or IGETC :		**10**
CSU electives (as needed to reach 60 transferrable units):		**7-12**
Total Units		**60**

Correction:	Updating per the State Chancellor's request to remove unarticulated KINF 101A, 101B, and 101C.
Effective:	Fall 2018