Fresno City College

2018-2019 Catalog Addendum

December 2018

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1101 East University Avenue, Fresno, California 93741
(559) 442-4600
www.fresnocitycollege.edu

Academic Regulations
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Earning Course and Unit Credit

Advanced Placement Program Credit (AP)

Credit is granted for Advanced Placement examinations for Fresno City College equivalent courses as listed below. Petitions to apply for credit may be obtained from the Admissions and Records Office.

Humanities Division

EXAM TITLE	MINIMUM SCORE	EQUIVALENT FCC COURSE	UNITS GRANTED
English Lang/Comp	3	English 1A	4
English Lang/Lit	3	English 1A & 1B	7
English Comp/Lit	3	English 1B	3
French	3	French 3	5
Spanish (Language)	3	Spanish 3 & 4	10
Spanish (Literature	3	Spanish 5 & 6	8

Math, Science, and Engineering Division

EXAM TITLE	MINIMUM SCORE	EQUIVALENT FCC COURSE	UNITS GRANTED
Biology	3	Biology 3	4
Chemistry	3	Chemistry 3A	4
Calculus BC/AB subscore	3	Mathematics 5A	5
Physics 1 & 2	3	Physics 2A	4
Statistics	3	Mathematics 11 or 42	4

Social Sciences Division

EXAM TITLE	MINIMUM SCORE	EQUIVALENT FCC COURSE	UNITS GRANTED
History: European	3	History 2	3
History: U.S.	3	History 11 & 12	6
History: World	3	History 23	3
Macroeconomics	3	Economics 50	3
Microeconomics	3	Economics 40	3
Govt &Politics: Comparative	3	Political Science 5	3
Govt & Politics: U.S.	3	*Political Science 2	3
Psychology	3	Psychology 2	3

Note: To initiate a Course Substitution for Political Science 2 at Fresno City College through Admissions and Records, the student must successfully submit the following documents for the division to review: 1) Official records of the AP United States Government & Politics exam indicating a score of 3 or higher, 2) Official transcripts from an accredited college where a student earned a final grade of "C" or higher in a 1 unit (minimum) course covering California State and Local Government/Politics.
Note: AP credit in American Government does meet the U.S. Constitution requirement for teaching credential candidates (Ed. Code Sec. 13132). However, it does NOT satisfy the requirements of Political Science 2 because it does not address state and local requirements (Ed. Code Sec. 40404). Candidates seeking a BA/BS at a California State University must satisfy national, state and local government requirements. The requirements at the University of California vary by campus.

IB Exams (Higher Level only) Credit for Lower Division Major Preparation

Credit is granted for International Baccalaureate Higher Level examinations for Fresno City College equivalent courses as listed below. Petitions to apply for credit may be obtained from the Admissions and Records Office.

Fine, Performing, and Communication Arts Division

IB EXAM TITLE	MINIMUM SCORE	EQUIVALENT FCC COURSE	UNITS GRANTED
Theatre	4	Theatre Arts 30 & 41	6

Humanities Division

IB EXAM TITLE	MINIMUM SCORE	EQUIVALENT FCC COURSE	UNITS GRANTED
English 1A: Lang/Lit	4	English 1B & 40	6
Language A: Literature	4	English 1B & 40	6

Math, Science, and Engineering Division

IB EXAM TITLE	MINIMUM SCORE	EQUIVALENT FCC COURSE	UNITS GRANTED
Biology	5	Biology 3	4
Chemistry	5	Chemistry 3A	4

Social Sciences Division

IB EXAM TITLE	MINIMUM SCORE	EQUIVALENT FCC COURSE	UNITS GRANTED
Economics	5	Economics 25	3

Transfer Requirements
Changes to Pages 40-57

Course Identification Numbering Systems (C-ID)

C-ID Number   **Fresno City College Course**
Change: add
COMP 142   CSCI 45, Computer Architecture and Organization
EDUC 200   EDUC 30 + EDUC 19X, Introduction to Teaching and Work Experience (Cooperative), Occupational
ENGR 130   ENGR 8, Statics
ENGR 150   ENGR 2, Graphics
ENGR 180   ENGR 1A, Elementary Plane Surveying 1
ENGR 220   ENGR 5, Programming and Problem Solving in MATLAB
ENGR 260   ENGR 6, Circuits with Lab
ENGR 260L   ENGR 6, Circuits with Lab
FIRE 100X   FIRET 1, Fire Protection Organization
FIRE 110X   FIRET 2, Fire Prevention Technology
FIRE 120X   FIRET 3, Fire Protection Equipment and Systems
FIRE 130X   FIRET 4, Building Construction for Fire Protection
FIRE 140X   FIRET 5, Fire Behavior and Combustion
MUS 180   MUS 48, Latin Jazz Ensemble
MUS 180   MUS 53, Latin Jazz Workshop
PHIL 120   PHIL 1C or 1CH, Ethics
SJS 110   AMST 10, American Pluralism: A Search for Common Ground in a Multicultural Society

Fresno City College CSU General Education – Breadth 2018-2019
Change: delete
BA 30   Area E: Lifelong Learning and Self-Development   *effective Fall 2018*

University of California Transfer Course List (UC)
Change: add
Philosophy 1CH   *effective Fall 2018*

California State University Transfer Course List (CSU)

Change: new
Allied Health 20   *effective Summer 2019*
Allied Health 21   *effective Summer 2019*
Art 80   *effective Summer 2019*
Automotive Technology 10   *effective Spring 2019*
Automotive Technology 61   *effective Spring 2019*
Automotive Technology 62   *effective Spring 2019*
Automotive Technology 63   *effective Spring 2019*
Automotive Technology 64   *effective Spring 2019*
Automotive Technology 65   *effective Spring 2019*
Automotive Technology 66   *effective Spring 2019*
Automotive Technology 67   *effective Spring 2019*
Automotive Technology 68A   *effective Summer 2019*
Automotive Technology 68B   *effective Summer 2019*
Computer Aided Manufacturing 5   *effective Spring 2019*
Computer Aided Manufacturing 31   *effective Spring 2019*
Construction 50   *effective Spring 2019*
Graphic Communications 20A   *effective Spring 2019*
Graphic Communications 20B   *effective Spring 2019*
Graphic Communications 24A   *effective Spring 2019*
Graphic Communications 24B   *effective Spring 2019*
Theatre Arts 49   *effective Spring 2019*

Change: deleted
Biology 3H   *effective Spring 2019*
Biology 24   *effective Spring 2019*
Chemistry 42   *effective Spring 2019*
Computer Aided Manufacturing 25   *effective Spring 2019*
Construction 56   *effective Spring 2019*

Graphic Communications 18   *effective Spring 2019*
Graphic Communications 20   *effective Spring 2019*
Graphic Communications 24   *effective Spring 2019*
Photography 27   *effective Spring 2019*
Photography 37   *effective Spring 2019*

Administrative Policies
Changes to Pages 58-64

Grievance Policy for Students

Students who reasonably believe a college decision or action has adversely affected his or her status, rights, or privileges may file a student grievance form and submit it to the Office of the Vice President of Student Services. This policy applies to complaints of discrimination and harassment. Students are expected to make a reasonable effort to resolve matters informally with either the person whom the student has a grievance and then that person's supervisor or a college administrator, if necessary. Students have a right to file a grievance alleging discrimination and harassment whether or not they have attempted to resolve the matter informally with the accused party. All complaints are investigated. Student grievance forms are located in the Office of the Vice President of Students Services.

Inquiries regarding the equal opportunity policies, the filing of grievances, or to request a copy of the grievance procedures covering discrimination complaints may be directed to the Section 504/Title II compliance coordinator:

Vice President of Student Services
Fresno City College
1101 E. University Avenue
Fresno, CA 93741
(559) 442-4600, Ext. 8595

For complete details on the college policies regarding discrimination and harassment complaints, refer to Administrative Regulation 3435 at https://www.boarddocs.com/ca/scccd/Board.nsf/goto?open&id=AHXK5Y4E8B29#.

Associate Degree
And Certificate Programs
Changes to Pages 123-228

Administration of Justice
Post Basic Supervisor – Formerly Basic Supervisor – Major #8927
correction, Fall 2018

Air Conditioning
HVAC Technology I – Formerly Air Conditioning, Commercial Air Comditioning, Heating, And Duct Systems – Major #8041
revised program, Spring 2019
Students who successfully complete the HVAC Technology I program are equipped with entry level HVAC (Heating, Ventilation, and Air Conditioning) skill sets. The curriculum incorporates laboratory and classroom assignments that develop a fundamental understanding of HVAC technology. Students also develop hands-on HVAC skills that prepare them for a technical career in the HVAC industry—e.g., brazing, cooling and heating "tune-ups", electrical and refrigerant circuit diagnosis, air distribution diagnosis, design and construction, and EPA Section 608 refrigerant handling.

Certificate of Achievement

Student Learning Outcomes:
1.   Demonstration of entry-level HVAC skills through the achievement of applicable industry certification..

Required Courses		Units
HVAC 50	HVAC Introduction	2
HVAC 51	HVAC Comfort Systems	6.5
HVAC 52	HVAC System Components	6.5
HVAC 53	HVAC Comfort Troubleshooting	6.5
HVAC 54	HVAC System Processes	6.5
HVAC 56	HVAC System Installation	2
		Total 30

HVAC Technology Ii – Formerly Air Conditioning – Major #8042
revised program, Spring 2019
Students who successfully complete the HVAC Technology II program have been equipped with intermediate-level HVAC (Heating, Ventilation, and Air Conditioning) skill sets, complimented by study in metal fabrication, computers, communication, and digital control systems. The curriculum incorporates laboratory and classroom assignments that develop a fundamental understanding of HVAC technology. Students also develop advanced hands-on HVAC skills that prepare them for a technical career in the HVAC industry—e.g., brazing, cooling and heating "tune-ups", electrical and refrigerant circuit diagnosis, air distribution design and diagnosis, EPA Section 608 refrigerant handling, welding, and wireless HVAC controls.

Certificate of Achievement

Student Learning Outcomes:
1.   Demonstration of advanced HVAC skills through the achievement of applicable industry certification(s).

Required Courses		Units
HVAC 50	HVAC Introduction	2
HVAC 51	HVAC Comfort Systems	6.5
HVAC 52	HVAC System Components	6.5
HVAC 53	HVAC Comfort Troubleshooting	6.5
HVAC 54	HVAC System Processes	6.5
HVAC 56	HVAC System Installation	2
HVAC 57	HVAC Digital Control Principles	2
HVAC 150	Wireless HVAC Controls	2
		Total 34

HVAC Technology Iii – Formerly Air Conditioning – Major #8040
revised program, Spring 2019
Students who successfully complete the HVAC Technology III program have been equipped with advanced level HVAC (Heating, Ventilation, and Air Conditioning) skill sets, complimented by study in metal fabrication, computers, communication, digital control systems, and general education. The curriculum incorporates laboratory and classroom assignments that develop a fundamental understanding of HVAC technology. Students also develop advanced hands-on HVAC skills that prepare them for a technical career with advancement potential in the HVAC industry—e.g., brazing, cooling and heating "tune-ups", electrical and refrigerant circuit diagnosis, air distribution design and diagnosis, EPA Section 608 refrigerant handling, welding, wireless HVAC controls, and communication.

Associate in Science

Student Learning Outcomes:
1.   Demonstration of advanced HVAC skills through the achievement of applicable industry certification(s).

Required Courses		Units
HVAC 50	HVAC Introduction	2
HVAC 51	HVAC Comfort Systems	6.5
HVAC 52	HVAC System Components	6.5
HVAC 53	HVAC Comfort Troubleshooting	6.5
HVAC 54	HVAC System Processes	6.5
HVAC 56	HVAC System Installation	2
HVAC 57	HVAC Digital Control Principles	2
HVAC 150	Wireless HVAC Controls	2
		Total 34

HVAC Wireless Control I – FORMERLY AIR CONDITIOING, DIGITAL AIR CONDITIONING CONTROLS – MAJOR #8043
correction, Fall 2018

Allied Health
Pre-Allied Health Registered Nursing Option – Major #4525
new program, Fall 2018
The Pre-Allied Health degree offers an interdisciplinary approach of study for students seeking to enter the profession of health care in a variety of ways. The degree will allow students to pursue a rigorous course of study before selecting an area of concentration to match their career and study interests. With emphasis on basic science, cultural competency in health care, the degree offered will prepare students to excel in a wide range of health care fields. Students completing the degree will be prepared to enter programs for careers in Dental Hygiene, Health Information Technology, Medical Assisting, Radiologic Technology, Registered Nursing or Respiratory Care.

Associate in Science

Student Learning Outcomes:
1.   Articulate career options and the necessary educational pathway for health professions.
2.   Express knowledge of current scientific and social issues affecting health care systems.
3.   The student will be prepared to enter the Registered Nursing Program.

Required Courses		Units
AHLTH 100	Introduction to Health Careers	2
BIOL 20	Human Anatomy, *and*	
BIOL 22	Human Physiology, *or*	
BIOL 21A	Human Anatomy & Physiology I, *and*	
BIOL 21B	Human Anatomy & Physiology II	9
CHEM 3A	Introduction to General Chemistry	4
ENGL 1A/1AH	Reading and Comprehension, *or*	
	Honors Reading and Comprehension	4
MATH 103	Intermediate Algebra	5

Registered Nursing Program Prerequisites		Units
ANTHRO 2/2H	Cultural Anthropology, *or*	
	Honors Cultural Anthropology, *or*	
SOC 1A/1AH	Introduction to Sociology, *or*	

	Honors Introduction to Sociology 3	
BIOL 31	Microbiology 5	
PSY 2/2H	General Psychology, or	
	Honors General Psychology.. 3	

Select Three (3) Units from the Following   **Units**

HIT 10	Medical Terminology 3	
		Total 38

Public Health For Transfer – Major #8400
new program, Fall 2018
The Associate in Science in Public Health for Transfer is designed for students who plan to complete a bachelor's degree in Health Science at a CSU or UC campus. An Associate in Science in Public Health focuses on competencies that include knowledge of public health models, health risk assessments, health screenings, health promotion programming, surveillance of disease outbreaks and injury prevention strategies for a community. The public health field includes disciplines such as patient health navigator, health education outreach, epidemiology, biostatistics, health services, environmental health, behavioral health, and occupational health. The Public Health Associate in Science for Transfer provides preparedness in these job related career paths. To earn the Associate in Science in Public Health for transfer, students must complete a maximum of 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 33 semester units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. For more information on university admission and transfer requirements, students should consult with a counselor.

Associate in Science

Student Learning Outcomes:
1. Demonstrate the ability to comprehend and apply the multi- dimensional approach of public health sciences.
2. Identify proactive factors for disease prevention and risk factors for disease and disability.
3. Demonstrate and apply behavior-changing techniques to maximize health and wellness.
4. Demonstrate the concepts of research, program planning and evaluation strategies.

Required Courses   **Units**

AHLTH 1	Introduction to Public Health 3	
BIOL 5	Human Biology.. 4	
BIOL 20	Human Anatomy, and	
BIOL 22	Human Physiology, or	
BIOL 21A	Human Anatomy & Physiology I, and	
BIOL 21B	Human Anatomy & Physiology II 9	
CHEM 3A	Introductory General Chemistry 4	
HLTH 1	Contemporary Health Issues.................................... 3	
MATH 11	Elementary Statistics.. 4	
PSY 2	General Psychology 3	

Select a Minimum of 3 Units from the Following   **Units**

AHLTH 2	Health and Social Justice 3	
ECON 40	Introduction to Microeconomics................................ 3	
ECON 50	Introduction to Macroeconomics 3	
FN 40	Nutrition.. 3	
HLTH 2	First Aid and Safety.. 3	
PSY 25	Human Sexuality 3	
		Total 33

Asian American Studies
Asian American Studies – Major #7695
new program, Fall 2018
From an historical perspective, Asians have played major roles in Fresno from the early Chinese settlers who built a Chinatown to the Japanese Americans who were confined to an assembly center at the Fresno fairground to the Hmong refugees who fled from the aftermath of the Vietnam War to create the largest Hmong American community in the state of California. The structure and purpose of the Asian American Studies associate degree is twofold: one is to enhance the skills of students to successfully transfer and complete a baccalaureate degree, second is to provide knowledge and understanding of the Asian American as an individual and as a member of the Asian American community.

Associate in Arts

Student Learning Outcomes:
1. Identify and describe major historical experiences of Asians and Asian Americans.

2.   Examine the cultural practices and evaluate how culture has evolved for the Asian American community.
3.   Explore the identity dilemma for Asian Americans of the various generations from recent immigrants to the assimilated and acculturated Asian American family.
4.   Evaluate the issues that have confronted Asians in the past as well as those relevant in a contemporary setting.

Required Core Courses		Units
ASAMER 1	Indo-Chinese Americans	3
ASAMER 8	Chinese Culture	3
ASAMER 15	Introduction to Asian-Americans	3
ASAMER 25	Asian American Social Issues	3
ASAMER 55	Introduction to Asian Art	3

Course Options (6 units)		Units
AMST 10	American Pluralism: A Search for Common Ground in a Multicultural Society	3
ASAMER 10	Hmong Culture	3
ASAMER 20	Asian American Literature	3
ASAMER 30	Asian-American Women	3
	Total	21

Automotive Collision Repair Technology
Automotive Collision Repair Technology – Formerly Body And Fender Mechanic – Major #8071
revised program, Spring 2019
Training in this field is designed to prepare the student for employment as an advanced apprentice trainee in body repairing, reconstruction finishing.

Associate in Science

Student Learning Outcomes:
1.   Straighten and fill damaged sheet metal.
2.   Mix and apply body fillers, puttys and plastic repair systems.
3.   Remove and reattach body panels and align.

Required Core Courses		Units
ACRT 151	Basic ACR, *or*	
ACRT 151A	Basic ACR, *and*	
ACRT 151B	Basic ACR	9
ACRT 153	Advanced ACR, *or*	
ACRT 153A	Advanced ACR, *and*	
ACRT 153B	Advanced ACR	9
AT 10	Technical Computer Applications	3
AT 21	Occupational Safety and Health	2
AT 40	Preparing for Employment Opportunities	3
WELD 2A	Introduction to Welding Technology	6

Recommended Electives		Units
ACRT 155	Spray Refinishing	2
AT 19	Work Experience (Cooperative), Occupational	1
AUTOT 54	Suspension, Steering, and Wheel Alignment	5
	Total	32

Automotive Technology
Automotive Technology – Major #8051
revised program, Spring 2019
Satisfactory completion of this curriculum prepares the student for entry-level employment as a skilled technician in the automotive service and repair industry. Students will perform actual service and repair procedures in the automotive laboratory. This curriculum has been certified by the National Institute of Automotive Service Excellence (ASE) Education Foundation.

**Associate in Science and
Certificate of Achievement**

Student Learning Outcomes:
1.   Create a diagnostic path for a given system to industry standards.
2.   Recommend an appropriate repair strategy for a given system to industry standards.

Required Courses **Units**
AT 10 Technical Computer Applications 3
AUTOT 9 Automotive Essentials 3
AUTOT 19 Work Experience (Cooperative), Occupational 10
AUTOT 51 Principles of Engine Theory and Service................................. 4
AUTOT 52 Automotive Electrical Systems 4
AUTOT 53 Engine Performance.. 4
AUTOT 54 Suspension, Steering, and Wheel Alignment 4
AUTOT 55 Power Trains: Transmissions/Transaxles, Differentials,
and Driveaxles 6
AUTOT 56 Automotive Braking Systems 4
AUTOT 57 Automotive Heating, Ventilation, Air Conditioning,
and Advanced Electronics.. 4
AUTOT 161A Level 1 – Engine and Emission Control Fundamentals 3
AUTOT 161B Level 2 – Smog Check Procedures Training 1.5
WELD 1 Exploring Welding/Metals.. 3

Electives (4 units) **Units**
AUTOT 58 Individualized Skills Training (IST) Chassis System I
Laboratory 1
AUTOT 58A Individualized Skills Training (IST) Chassis System II
Laboratory 1
AUTOT 58B Individualized Skills Training (IST) Engine/Propulsion
Systems Laboratory 1
AUTOT 58C Individualized Skills Training (IST) Power Train
Systems Laboratory 1

Total 57.5

Recommended Sequence:
First Year – First Semester **Units**
AT 10 Technical Computer Applications 3
AUTOT 9 Automotive Essentials 3
WELD 1 Exploring Welding/Metals.. 3

First Year - Second Semester **Units**
AUTOT 52 Automotive Electrical Systems 4
AUTOT 53 Engine Performance.. 4

First Year - Third Semester **Units**
AUTOT 19 Work Experience (Cooperative), Occupational 3
AUTOT 51 Principles of Engine Theory and Service................................. 4

Second Year - First Semester **Units**
AUTOT 19 Work Experience (Cooperative), Occupational 3
AUTOT 54 Suspension, Steering, and Wheel Alignment 4
AUTOT 56 Automotive Braking Systems 4
AUTOT 58 Individualized Skills Training (IST) Chassis System I
Laboratory 1
AUTOT 58A Individualized Skills Training (IST) Chassis System II
Laboratory 1

Second Year - Second Semester **Units**
AUTOT 19 Work Experience (Cooperative), Occupational 2
AUTOT 55 Power Trains: Transmissions/Transaxles, Differentials,
and Driveaxles 6
AUTOT 57 Automotive Heating, Ventilation, Air Conditioning,
and Advanced Electronics.. 4
AUTOT 161A Level 1 – Engine and Emission Control Fundamentals 3
AUTOT 161B Level 2 – Smog Check Procedures Training 1.5

Second Year - Third Semester **Units**
AUTOT 19 Work Experience (Cooperative), Occupational 2
AUTOT 58B Individualized Skills Training (IST) Engine/Propulsion
Systems Laboratory 1
AUTOT 58C Individualized Skills Training (IST) Power Train
Systems Laboratory 1

Chassis Technician Ii – Major #8056B
revised program, Spring 2019
Satisfactory completion of this curriculum prepares the student for employment as an automotive chassis service technician level II.

Certificate

Student Learning Outcomes:
1.   Create a diagnostic path appropriate for a given system to industry standards.
2.   Recommend an appropriate repair strategy for a given system to industry standards.

Required Courses	Units
AUTOT 19 Work Experience (Cooperative), Occupational	2
AUTOT/ATGM 52 Automotive Electrical Systems	4
AUTOT/ATGM 57 Automotive Heating, Ventilation, Air Conditioning, and Advanced Electronics	4
	Total 10

Emission Technician I – Major #8057A
revised program, Spring 2019
Satisfactory completion of this curriculum prepares the student for employment as an emission service technician level I.

Certificate

Student Learning Outcomes:
1.   Create a diagnostic path appropriate for a given system to industry standards.
2.   Recommend an appropriate repair strategy for a given system to industry standards.

Required Courses	Units
AUTOT/ATGM 52 Automotive Electrical Systems	4
AUTOT/ATGM 53 Engine Performance	4
AUTOT 261 BAR Specified Diagnosis and Repair Training	3
	Total 11

Powertrain Technician I – MAJOR #8058A
revised program, Spring 2019
Satisfactory completion of this curriculum prepares the student for employment as an automotive powertrain service technician level I.

Certificate

Student Learning Outcomes:
1.   Create a diagnostic path for a given system to industry standards.
2.   Recommend an appropriate repair strategy for a given system to industry standards.

Required Courses	Units
AUTOT 19 Work Experience (Cooperative), Occupational	2
AUTOT/ATGM 51 Principles of Engine Theory and Service	4
AUTOT/ATGM 53 Engine Performance	4
	Total 10

Powertrain Technician Ii – Major #8058b
revised program, Spring 2019

Satisfactory completion of this curriculum prepares the student for employment as an automotive powertrain service technician level II.

Certificate

Student Learning Outcomes:
1.   Create a diagnostic path for a given system to industry standards.
2.   Recommend an appropriate repair strategy for a given system to industry standards.

Required Courses	Units
AUTOT 19 Work Experience (Cooperative), Occupational	2
AUTOT/ATGM 52 Automotive Electrical Systems	4
AUTOT/ATGM 55 Power Trains: Transmissions/Transaxles, Differentials, and Drive axles	6
	Total 12

Business Administration

21st Century Work Competencies – Major #2035
new program, Fall 2018
A step incentive certificate signifying proficiency in basic knowledge and skills related to human relations and general business concepts required for success in today's competitive economy.

Certificate

Student Learning Outcomes:
1.   Demonstrate an understanding and application of human relations and professional workplace behaviors.
2.   Identify, assess and critically evaluate basic business theory, functions, and skills required to manage effectively in a complex global environment.

Required Courses	Units
BA 10 Introduction to Business	3
BA 33 Human Relations in the Workplace	3
	Total 6

Entrepreneurial Ventures – Major #2041
revised program, Spring 2019
This certificate is designed to provide visual artists, musicians, artisans, engineers, technologists and other non-business majors and other skilled individuals with the necessary knowledge to launch a business and/or market their creations. These courses are focused on the start-up phases of a business.

Certificate

Student Learning Outcomes:
1.   Complete a business plan.
2.   Apply business theory relating to the functions of operations, management, marketing, accounting, technology and finance.
3.   Demonstrate basic workplace written, verbal, non-verbal communication, negotiation, and soft skills required for the workplace.

Required Courses	Units
BA 10 Introduction to Business	3
BA 51 Business Planning and New Venture Launch	1.5
BA 52 Introduction to Entrepreneurship	3

Elective Courses: Select 1 Course from the Following	Units
BA 24 Negotiations	1.5
BA 27 Entrepreneurship Startup Lab	1-3
BA 30 Personal Finance	3
	Total 8.5-10.5

Business & Technology

Office Professional - Executive Assistant Emphasis – Formerly Office Professional Ii And Administrative Assistant Emphasis – Major #2215
revised program, Spring 2019

Training is designed to provide advanced skills for employment in a variety of professional office environments. Additional general education units are required for the AS degree. Students may earn more than one certificate along with the Associate in Science degree and are required to earn grades of "C" or better in all courses.

Associate in Science

Student Learning Outcomes:
1.   Use technology applications, office equipment, and software effectively in a professional setting.
2.   Proofread documents and correct errors in punctuation, grammar, capitalization, number expression, and spelling.
3.   Type at least 40 gross words per minute with 97% accuracy.
4.   Achieve a satisfactory evaluation in a work experience setting.

Required Core Courses		Units
BT 1	Computer Document Processing I	4
BT 9	Computer Applications I	4
BT 19	Work Experience (Cooperation), Occupational	2
BT 23	Job Search and Workplace Skills	3
BT 112	Business English	3

Required Emphasis Courses		Units
BT 2	Computer Document Processing II	3
BT 6	Records Management	3
BT 10	Computer Applications II	4
BT 33	Social Media and Emerging Technologies in the Workplace	3
BT 122	Typing Skillbuilding	0.5
		Total 29.5

Office Professional - Executive Assistant Emphasis – Formerly Office Professional Ii And Administrative Assistant Emphasis – Major #2215
revised program, Spring 2019
Training is designed to provide advanced skills for employment in a variety of professional office environments. Students may earn more than one certificate and are required to earn grades of "C" or better in all courses.

Certificate of Achievement

Student Learning Outcomes:
1.   Use technology applications, office equipment, and software effectively in a professional setting.
2.   Proofread documents and correct errors in punctuation, grammar, capitalization, number expression, and spelling.
3.   Type at least 40 gross words per minute with 97% accuracy.
4.   Achieve a satisfactory evaluation in a work experience setting.

Required Core Courses		Units
BT 1	Computer Document Processing I	4
BT 9	Computer Applications I	4
BT 19	Work Experience (Cooperation), Occupational	2
BT 23	Job Search and Workplace Skills	3
BT 112	Business English	3
BT 115	Refresher Math	3

Required Emphasis Courses		Units
BT 2	Computer Document Processing II	3
BT 6	Records Management	3
BT 10	Computer Applications II	4
BT 33	Social Media and Emerging Technologies in the Workplace	3
BT 122	Typing Skillbuilding	0.5
		Total 32.5

Office Professional – Legal Office Emphasis – Major #2103
revised program, Spring 2019
Training is designed to prepare students for employment in a legal office environment. Students may earn more than one certificate in addition to the Associate in Science degree and are required to earn grades of "C" or better in all courses.

Associate in Science

Student Learning Outcomes:
1.   Use technology applications, office equipment, and software effectively in a professional setting.
2.   Describe the basic organizational structure, operational principles and administrative processes associated with the law office environment.
3.   Achieve a satisfactory evaluation in a work experience setting.

Required Core Courses		Units
BT 1	Computer Document Processing I	4
BT 9	Computer Applications I	4
BT 19	Work Experience (Cooperation), Occupational	2
BT 23	Job Search and Workplace Skills	3
BT 112	Business English	3
BT 115	Refresher Math	3

Required Emphasis Courses		Units
BT 140	Legal Document Processing, or	
PLEGAL 156	Legal Document Processing	3
PLEGAL 7	Law Offices Practices	3
PLEGAL 14	Law Office Computing	3
		Total 28

Office Professional – Legal Office Emphasis – Major #2103
revised program, Spring 2019
Training is designed to prepare students for employment in a legal office environment. Students may earn more than one certificate and are required to earn grades of "C" all courses.

Certificate of Achievement

Student Learning Outcomes:
1.   Use technology applications, office equipment, and software effectively in a professional setting.
2.   Describe the basic organizational structure, operational principles and administrative processes associated with the law office environment.
3.   Achieve a satisfactory evaluation in a work experience setting.

Required Core Courses		Units
BT 1	Computer Document Processing I	4
BT 9	Computer Applications I	4
BT 19	Work Experience (Cooperation), Occupational	2
BT 23	Job Search and Workplace Skills	3
BT 112	Business English	3
BT 115	Refresher Math	3

Required Emphasis Courses		Units
BT 140	Legal Document Processing, *or*	
PLEGAL 156	Legal Document Processing	3
PLEGAL 7	Law Offices Practices	3
PLEGAL 14	Law Office Computing	3
		Total 28

Office Professional – Medical Office Emphasis – Major #2382
revised program, Spring 2019
Training is designed to prepare students for employment in a medical office environment. Students may earn more than one certificate in addition to the Associate in Science degree and are required to earn grades of "C" or better in all courses.

Associate in Science

Student Learning Outcomes:
1.   Use technology applications, office equipment, and software effectively in a professional setting.
2.   Perform medical administrative duties.
3.   Achieve a satisfactory evaluation in a work experience setting.

Required Core Courses		Units
BT 1	Computer Document Processing I	4
BT 9	Computer Applications I	4
BT 19	Work Experience (Cooperation), Occupational	2
BT 23	Job Search and Workplace Skills	3
BT 112	Business English	3
BT 115	Refresher Math	3

Required Emphasis Courses		Units
BT 143	Medical Office Vocabulary	1
BT 144	Medical Administrative Assistant	2.5
BT 147	Medical Management Software	2
BT 148	Medical Insurance & Billing Concepts	2.5
		Total 27

Office Professional – Medical Office Emphasis – Major #2382
revised program, Spring 2019
Training is designed to prepare students for employment in a medical office environment. Students may earn more than one certificate and are required to earn grades of "C" or better in all courses.

Certificate of Achievement

Student Learning Outcomes:
1. Use technology applications, office equipment, and software effectively in a professional setting.
2. Perform medical administrative duties.
3. Achieve a satisfactory evaluation in a work experience setting.

Required Core Courses		Units
BT 1	Computer Document Processing I	4
BT 9	Computer Applications I	4
BT 19	Work Experience (Cooperation), Occupational	2
BT 23	Job Search and Workplace Skills	3
BT 112	Business English	3
BT 115	Refresher Math	3

Required Emphasis Courses		Units
BT 143	Medical Office Vocabulary	1
BT 144	Medical Administrative Assistant	2.5
BT 147	Medical Management Software	2
BT 148	Medical Insurance & Billing Concepts	2.5
		Total 27

Communication
Communiction Skills For Professionals – Major #5433
correction, Fall 2018

Computer Aided Manufacturing
Computer Aided Manufacturing – Formerly Manufacturing Technology & Machinist – Major #8271
revised program, Spring 2019
The CAM Associate Degree Program is designed for students who have a strong interest in becoming a CAD/CAM/CNC Machinist & Operator. Core courses ensure students with a knowledgeable foundation to operate and setup computer numerical control machines using our Computer Aided Manufacturing laboratory. Mastercam and Fusion 360 CAD/CAM software are the designing software's used to create 3D Designs for the generation of G and M codes for CNC machined parts. The Required Courses are intendant to start a career as a highly skilled CNC Setup person, a CNC Operator, and a CNC Programmer.

Associate in Science

Student Learning Outcomes:
1. Demonstrate the ability to interpret and apply computer software commands for creating mechanical drawings for the process of machining accurate parts.
2. Setup and operate Computer Numerical Control Machines.
3. Analyze and apply shop safety.

Required Courses		Units
AT 10	Technical Computer Applications	3
AT 40	Preparing for Employment Opportunities	3
AT 140	Introduction to Machine Shop	3
CAM 5	CNC Operation & Maintenance for Machinist	2.5
CAM 10	CNC Mill Programming & Operation I	4
CAM 15	CNC Programming for Machinist	2.5

CAM 20	CNC Mill Programming & Operation II	4
CAM 26	Lathe Programming and Operation II	3
CAM 31	Multi-Axis Milling & Programming	3
		Total 28

Computer Aided Manufacturing – Formerly Manufacturing Technology & Machinist – Major #8271
revised program, Spring 2019
The CAM Certificate of Achievement Program is designed for students who have a strong interest in becoming a CAD/CAM/CNC Machinist & Operator. Core courses ensure students a knowledgeable foundation in 3D part designing with Mastercam and Fusion 360 CAD/CAM software for the purpose of Tool Programming. The Required Courses are intendant to start a career as a highly skilled CNC Setup person, a CNC Operator, and a CNC Programmer.

Certificate of Achievement

Student Learning Outcomes:
1. Demonstrate the ability to interpret and apply computer software commands for creating mechanical drawings for the process of machining accurate parts.
2. Setup and operate Computer Numerical Control Machines.
3. Analyze and apply shop safety.

Required Courses		**Units**
CAM 5	CNC Operation & Maintenance for Machinist	2.5
CAM 10	CNC Mill Programming & Operation I	4
CAM 15	CNC Programming for Machinist	2.5
CAM 20	CNC Mill Programming & Operation II	4
CAM 26	Lathe Programming and Operation II	3
CAM 31	Multi-Axis Milling & Programming	3
		Total 19

Computer Information Technology
Computer Information Systems – Major #2701
revised program, Spring 2019
This program provides a strong academic preparation in Information Systems and Computer Science. The courses give students the fundamentals in operating systems, information security, networking, current programming languages and development platforms. This major will prepare students for transfer as an Information Systems major to universities as well as entry-level employment.

Associate in Science

Student Learning Outcomes:
1. Design and develop a software business solution using a programming language.
2. Create and maintain a server-client computer network to meet the needs of an organization.

Required Courses		**Units**
CIT 15	Computer Concepts	3
CIT 45	Data Communications	3
CIT 48	A+ and Server+ Systems Fundamentals	3
DS 23	Business Statistics	3

Select One of the Following		**Units**
CIT 60	Beginning Visual Basic	4
CIT 62	Beginning Objective C Programming	4
CIT 63	Beginning Java Programming	4
CIT 66	Beginning C++ Programming	4
CIT 70	Beginning Swift Programming	4

Select Two of the Following		**Units**
BA 28	E-Law and Ethics	3
CIT 28	Client/Server Databases	3
CIT 50	Fundamentals of Networking	4
CIT 58C	Network Security Fundamentals	3
CIT 58F	Ethical Hacking	3
CIT 65	Android Programming Applications	4
CIT 69	iOS Programming Applications	4
		Total 22-24

Construction

Construction – Major #8091
revised program, Spring 2019
The construction curriculum is designed to provide students with hands-on training strengthened with technical information that will prepare them for entry into the construction industry or for their own personal construction projects. Specialty courses are available in Plumbing and Electrical to give students a greater depth of knowledge in construction.

Associate in Science

Student Learning Outcomes:
1. Construct foundation forms for a slab on grade.
2. Correctly install vinyl windows in a newly framed residence.
3. Correctly install and finish drywall.
4. Install pre-hung doors.
5. Lay out and square a building foundation.
6. Install roof sheathing.

First Year - First semester		**Units**
ARCH 12	Architectural Practice I	3
ARCH 21	Materials of Construction	3
AT 21	Occupational Safety and Health	2
CONS 50A	Basic Residential Construction	3

First Year - Second semester		**Units**
ARCH 22	Architectural Practice II	3
AT 40	Preparing for Employment Opportunities	3
CONS 50B	Basic Residential Construction	3
CONS 55	Roof Framing Systems	2.5

Second Year - First semester		**Units**
CONS 51	Residential Construction: Foundations and Framing	9
CONS 56A	Residential Plumbing 1, *and*	
CONS 56AL	Residential Plumbing Lab 1, *or*	
CONS 175A	Residential Wiring 1, *and*	
CONS 175AL	Residential Wiring Lab 1	3.5-4.5

Second Year - Second semester		**Units**
CONS 53	Residential Construction: Exterior and Interior Finish	9
CONS 56B	Residential Plumbing 2, *and*	
CONS 56BL	Residential Plumbing Lab 2, *or*	
CONS 175B	Residential Wiring 2, *and*	
CONS 175BL	Residential Wiring Lab 2	3.5-4.5

Total 47.5-49.5

Construction – Major #8091
revised program, Spring 2019
The construction curriculum is designed to provide students with hands-on training strengthened with technical information that will prepare them for entry into the construction industry or for their own personal construction projects. Specialty courses are available in Plumbing and Electrical to give students a greater depth of knowledge in construction.

Certificate of Achievement

Student Learning Outcomes:
1. Install roof sheathing.
2. Construct foundation forms for a slab on grade.
3. Correctly install vinyl windows in a newly framed residence.
4. Correctly install and finish drywall.
5. Install pre-hung doors.
6. Lay out and square a building foundation.

First Year - First semester		**Units**
ARCH 12	Architectural Practice I	3
ARCH 21	Materials of Construction	3
AT 10	Technical Computer Applications	3
AT 21	Occupational Safety and Health	2
AT 130	Industrial Mathematics	3
CONS 50A	Basic Residential Construction	3

First Year - Second semester **Units**
ARCH 22   Architectural Practice II 3
AT 40   Preparing for Employment Opportunities 3
AT 131   Technical Report Writing 3
CONS 50B   Basic Residential Construction................................... 3

Second Year - First semester **Units**
CONS 51   Residential Construction: Foundations and Framing............... 9
CONS 56A   Residential Plumbing 1, *and*
  CONS 56AL   Residential Plumbing Lab 1, *or*
  CONS 175A   Residential Wiring 1, *and*
  CONS 175AL   Residential Wiring Lab 1 ....3.5-4.5

Second Year - Second semester **Units**
CONS 53   Residential Construction: Exterior and Interior Finish.............. 9
CONS 55   Roof Framing Systems.. 2.5
CONS 56B   Residential Plumbing 2, *and*
  CONS 56BL   Residential Plumbing Lab 2, *or*
  CONS 175B   Residential Wiring 2, *and*
  CONS 175BL   Residential Wiring Lab 2 ....3.5-4.5
                                                       Total 54-56

Dance
Dance – Major #5390
correction, Fall 2014
The associate degree in dance provides a base of training in dance technique and practical experience in concert performance and production work as well as theoretical background in dance composition. Possible careers include choreographer+, dance director, dance historian+, dancer, dance teacher+, dance therapist+, fitness/aerobic instructor, movement notator, performer, reconstructor, and recreation leader. Students considering transferring to a four-year institute as a dance major should contact that target institution for dance audition requirements. +Bachelor degree or higher required.

Associate in Arts

Student Learning Outcomes:
1.   Perform dance in a public setting.
2.   Describe characteristic elements and form of various dance and choreographic styles.

Required Courses **Units**
DANCE 10B   Pre-Intermediate Modern Dance Technique, *or*
DANCE 12B   Beginning Ballet Part 2, *or*
DANCE 13A   Intermediate Ballet Technique...1-1.5
DANCE 20A   Beginning Modern Dance Composition 3
DANCE 28   Intermediate Modern Dance Technique 1.5
DANCE 30   Dance Appreciation 3

Select Two of the Following Courses **Units**
DANCE 21   Dance Workshop Performance 2-4
DANCE 22   Dance Theatre Performance 2-4
DANCE 31   Dance Workshop Performance 2 2-4
DANCE 32   Dance Theatre Performance 2 2-4

**Select At Least Six Units from the Following (courses used to satisfy
the Required Core cannot be used to satisfy this block)** **Units**
DANCE 9   Dance Conditioning..1
DANCE 13A   Intermediate Ballet Technique... 1.5
DANCE 13B   Pre-Advanced Ballet Technique... 1.5
DANCE 14   Beginning Jazz Dance Technique 1
DANCE 15   Intermediate Jazz Dance Technique 1
DANCE 16   Beginning Tap Dance 0.5
DANCE 17A   Beginning Mexican Folk Dance 3.5
DANCE 18   Intermediate Tap Dance.. 0.5
DANCE 20B   Intermediate Modern Dance Composition 3
DANCE 27B   Advanced Mexican Folk Dance 3.5
DANCE 28   Intermediate Modern Dance Technique 1.5
TA 27B   Introduction to Lighting Design.. 3
TA 41   Beginning Acting, *or*

TA 42   Beginning Acting for Theatre Majors 3

Total 18.5-23

English

English For Transfer – Major #5305
correction, Spring 2017
The Associate in Arts in English for Transfer degree is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus. A degree in English is considered a rigorous, complementary education for careers in the legal field, editing, interpreting, translation, and teaching at the K-12 and college levels. To earn the Associate in Arts in English for Transfer degree, students must complete a maximum of 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 18 semester units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. For more information on university admission and transfer requirements, students should consult with a counselor.

Associate in Arts

Student Learning Outcomes:
1.   Read and critically evaluate college-level material from various sources through analysis and synthesis of information.
2.   Write appropriately documented argumentative essays and research papers to deal with ideas by definition, evaluation, interpretation, and persuasion.
3.   Analyze and respond in writing to a variety of literature, including short fiction, poetry, drama, novels, and other genres, concerning thematic, rhetorical, and symbolic elements.
4.   Write about and analyze the various literary elements such as plot, characterization, setting, voice, meter and tragedy in selected works.
5.   Demonstrate an understanding of the importance of the assigned works to various time periods and cultures and to literary tradition.

Major Core - English 1A/1AH is a prerequisite to major core courses; it also meets writing/reading competency and general education area D1. Units
ENGL 1B   Introduction to the Study of Literature 3
ENGL 3   Critical Reading & Writing 3

Major Course Options: Section A - Select one of the course sequences (6 units total) from the following list: Units
ENGL 44A   World Literature to the Renaissance, *and*
  ENGL 44B   World Literature since the Renaissance, *or*
  ENGL 46A   English Literature to 1800, *and*
  ENGL 46B   English Literature from 1800 to the Present, *or*
  ENGL 48A   Introduction to American Literature to 1865, *and*
  ENGL 48B   Introduction to American Literature 1865 to the Present 6

Major Course Options: Section B - Select either six (6) units from Section B, or three (3) units from Section B and three (3) units from Section C (Courses taken to meet Section A above cannot be used to fulfill Section B): Units
ENGL 14   Folklore 3
ENGL 15A   Creative Writing: Poetry 3
ENGL 15B   Creative Writing: Fiction 3
ENGL/TA 15C   Creative Writing: Playwriting 3
ENGL/AFRAM 17 African-American Literature...3
ENGL/
ASAMER 20   Asian American Literature 3
ENGL/HUM 42   Classic Myths 3
ENGL 44A   World Literature to the Renaissance 3
ENGL 44B   World Literature since the Renaissance.................................3
ENGL 45   Contemporary World Literature 3
ENGL 46A   English Literature to 1800 3
ENGL 46B   English Literature from 1800 to the Present 3
ENGL 48A   Introduction to American Literature to 1865 3
ENGL 48B   Introduction to American Literature 1865 to the Present 3
LING 10   Introduction to Language..3

Section C: Units

ENGL 12	The Bible as Literature	3
ENGL 15D	Creative Writing: Creative Nonfiction	3
ENGL/WSTS 36	Women's Literature	3
ENGL 40	Themes in Literature	3
ENGL 47	Introduction to Shakespeare	3
		Total 18

Electrical System Technology – Formerly Electronic Technology

Advanced Photovoltaic Technician – Major #8186
new program, Fall 2018

The courses in the advanced photovoltaic technician certificate prepare the student for employment in the photovoltaic industry for auditors, site surveyors, designers, and other advanced positions.

Certificate of Achievement

Student Learning Outcomes
1.   Given a customer's electrical usage, plan, design, document, and install various photovoltaic systems with all required hardware and electrical equipment to NEC and local/state requirements.

Required Courses		Units
EST 51	Direct Current Fundamentals of Electronics	3
EST 52	Alternating Current Fundamentals	3
EST 53	Lab Safety Practices	2
EST 54	Integrated Devices	3
EST 56A	Wiring Methods	3
EST 81	Photovoltaic Systems	3
EST 96D	National Electrical Code-Electrical Safety	3
		Total 20

Biomedical Tech – Major #6085
new program, Fall 2018

The biomedical technology program trains students to troubleshoot and repair electronics based biomedical instruments and equipment. Course topics highlight three (3) primary fields of study: Electronic Fundamentals, Human Anatomy and biomedical instrumentation. Students study electronics at the component level and human biological processes as building blocks for understanding biomedical instrumentation function, operation and troubleshooting.

Certificate of Achievement

Student Learning Outcomes
1.   Distinguish and list various medical imaging technologies.
2.   Set up standard electrical measurement tools and differentiate the uses for calibration and troubleshooting of medical equipment.
3.   Categorize biopotentials and electrodes as they relate to basic human anatomy and physiology systems.
4.   Associate the applicable regulation with the regulating organizations.
5.   Evaluate the data from basic preventive maintenance tests on the following equipment: multi-parameter physiological monitor, electrocardiogram (ECG) machine, blood pressure monitor, defibrillator, pulse oximeter, infusion pump, and electrosurgical unit.

First Year – First Semester		Units
AT 10	Technical Computer Applications	3
EST 51	Direct Current Fundamentals of Electronics	3
EST 53	Lab Safety Practices	2
EST 55A	Digital Concepts	3

First Year – Second Semester		Units
EST 52	Alternating Current Fundamentals	3
EST 57A	Analog Communications	3
EST 60	A+ PC Maintenance and Repair	3
EST 61	Networking Fundamentals	3

Second Year – First Semester		Units
EST 54	Integrated Devices	3
EST 57B	Digital Communications	3
EST 57C	Voice and Data Cabling	3
EST 82A	Introduction to Robotics	3.5

Second Year – Second Semester **Units**
AT 40   Preparing for Employment Opportunities 3
BIOL 5   Human Biology 4
EST 84   Introduction to Biomedical Electronics 3
                                                                          Total 45.5

Fire Technology
Firefighter Ii – Major #8835
new program, Spring 2019

Provides the skills and knowledge needed for the entry level professional fire fighter to perform his/her duties safely, effectively, and competently. The curriculum is based on the 2013 edition of NFPA 1001 Standard for Fire Fighter Professional Qualifications. The five overarching themes of the California State Fire Fighter II curriculum are: general knowledge germane to the profession, fire department communications, fireground operations, rescue operations, and prevention, preparedness, and maintenance.

Certificate

Student Learning Outcomes
1.   Identify proper equipment necessary to mitigate incident presented during a scenario simulation.
2.   Initiate proper communication process during routine and emergency situations.
3.   Perform proper rescue techniques removing victims in emergency simulations.

Required Courses **Units**
FIRET 222A   Firefighter II Part A 2
FIRET 222B   Firefighter II Part B 3
                                                                          Total 5

Graphic Communications
Digital Media – Formerly Multimedia Option – Major #8505
revised program, Spring 2019
This certificate provides evidence of knowledge in the preparation of images and audio for multimedia output.

Certificate

Student Learning Outcomes:
1.   Demonstrate competency in communications techniques and visual design theory through the use of application specific software and hardware.

Courses **Units**
GRC 22   Digital Media 3
GRC 24A   Intro 2-D Animation with Adobe Animate, *or*
  GRC 24B   Intro 2-D Animation – Harmony Software 3
GRC 34   Introduction to 3-D Animation 3
GRC 41   Visual Communications 3
GRC 51   Storyboarding 1
GRC 53   Adobe After Effects 3
                                                                          Total 16

Digital Video – Major #8506
revised program, Spring 2019
This certificate prepares the student for entry-level work in digital video production.

Certificate

Student Learning Outcomes:
1.   Successfully operate a digital video camera to capture footage in a variety of lighting conditions.
2.   Capture audio using a digital recorder and compile it with existing audio tracks while maintaining synchronization.

Courses **Units**
GRC 23   Video Editing – Adobe Premiere Pro 3
GRC 27   Digital Video Production 3
GRC 32   Video Techniques 3
GRC 51   Storyboarding 1
GRC 53   Adobe After Effects 3

Total 13

Graphic Communications – Formerly Printing Technology And Reprographics – Major #8332
revised program, Spring 2019
This program is geared for the student considering employment in graphic communications production. Successful completion provides an entry-level skill set and general understanding of production techniques ranging from computerized layout through output in print, digital video, Internet publishing, and digital media products.

**Associate in Science and
Certificate of Achievement**

Student Learning Outcomes:
1.   Demonstrate competency in visual communication techniques and visual design theory through the use of application specific software and hardware.

Required Courses		Units
AT 40	Preparing for Employment Opportunities	3
GRC 15	Web Page Design	4
GRC 17	Adobe Illustrator	3
GRC 20A	Intro to Applied Graphics – Adobe Tools	3
GRC 20B	Intro to Applied Graphics - Media	3
GRC 22	Digital Media	3
GRC 24A	Intro 2-D Animation with Adobe Animate, *or*	
GRC 24B	Intro 2-D Animation – Harmony Software	3
GRC 27	Digital Video Production	3
GRC 30	Adobe Indesign/Professional Publishing	3
GRC 31	Intermediate Photoshop	3
GRC 41	Visual Communications	3

Electives (6 units)		Units
GRC 14	Adobe Acrobat Professional	3
GRC 16	Web Design Techniques	4
GRC 25	CMS Web Design	3
GRC 32	Video Techniques	4
GRC 34	Introduction to 3-D Animation	3
GRC 39A	Introduction to Graphic Design	3
GRC 40A	Intermediate Graphic Design	3
GRC 51	Storyboarding	1
GRC 52	Adobe Lightroom	3
GRC 53	Adobe After Effects	3
PHOTO 6	Digital Imaging Fundamentals	3
PHOTO 12	Beginning Photoshop	3

Total 40

First Year - First Semester		Units
AT 40	Preparing for Employment Opportunities	3
GRC 20A	Intro to Applied Graphics – Adobe Tools	3
GRC 41	Visual Communications	3
Minimum of 3 units from electives.		3

First Year - Second Semester		Units
GRC 15	Web Page Design	4
GRC 17	Adobe Illustrator	3
GRC 20B	Intro to Applied Graphics - Media	3
GRC 22	Digital Media	3

Second Year - First Semester		Units
GRC 27	Digital Video Production	3
GRC 31	Intermediate Photoshop	3
Minimum of 3 units from electives.		3

Second Year - Second Semester		Units
GRC 24A	Intro 2-D Animation with Adobe Animate, *or*	
GRC 24B	Intro 2-D Animation – Harmony Software	3
GRC 30	Adobe Indesign/Professional Publishing	3

Graphic Design – Formerly Graphic Design Option – Major #8501
revised program, Spring 2019

The Graphic Design Option combines aspects of the graphic communication, fine art, and business curricula to provide a foundation in graphic design. The student will receive a background in art, computer graphics and web design with an understanding of the requirements and limitations of production.

**Associate in Arts and
Certificate of Achievement**

Student Learning Outcomes:
1.   Demonstrate competency in visual communication techniques and visual design theory through the use of application specific software and hardware.

Required Courses		**Units**
ART 7	Beginning Drawing	3
AT 40	Preparing for Employment Opportunities	3
BA 38	Operation of the Small Business, *or*	
BA 52	Introduction to Entrepreneurship, *or*	
MKTG 10	Principles of Marketing, *or*	
MKTG 11	Selling and Sales Management, *or*	
MKTG 21	Digital Marketing	3
GRC 14	Adobe Acrobat Professional	3
GRC 15	Web Page Design	4
GRC 17	Adobe Illustrator	3
GRC 20A	Intro to Applied Graphics – Adobe Tools	3
GRC 20B	Intro to Applied Graphics - Media	3
GRC 30	Adobe Indesign/Professional Publishing	3
GRC 31	Intermediate Photoshop	3
GRC 39A	Introduction to Graphic Design	3
GRC 40A	Intermediate Graphic Design	3

Recommended Electives (6 units)		**Units**
GRC 16	Web Design Techniques	4
GRC 22	Digital Media	3
GRC 23	Video Editing – Adobe Premiere Pro	3
GRC 25	CMS Web Design	3
GRC 32	Video Techniques	3
GRC 34	Introduction to 3-D Animation	3
GRC 51	Storyboarding	1
GRC 52	Adobe Lightroom	3
GRC 53	Adobe After Effects	3
PHOTO 6	Digital Imaging Fundamentals	3
PHOTO 12	Beginning Photoshop	3
		Total 43

First Year - First Semester		**Units**
ART 7	Beginning Drawing	3
AT 40	Preparing for Employment Opportunities	3
GRC 17	Adobe Illustrator	3
GRC 20A	Intro to Applied Graphics – Adobe Tools	3

First Year - Second Semester		**Units**
GRC 15	Web Page Design	4
GRC 30	Adobe Indesign/Professional Publishing	3
GRC 31	Intermediate Photoshop	3
GRC 39A	Introduction to Graphic Design	3

Second Year - First Semester		**Units**
GRC 14	Adobe Acrobat Professional	3
GRC 20B	Intro to Applied Graphics - Media	3
GRC 40A	Intermediate Graphic Design	3

Second Year - Second Semester		**Units**
BA 38	Operation of the Small Business, *or*	
BA 52	Introduction to Entrepreneurship, *or*	
MKTG 10	Principles of Marketing, *or*	
MKTG 11	Selling and Sales Management, *or*	
MKTG 21	Digital Marketing	3
GRC Elective		3
GRC Elective		3

Visual Communications – Major #8510
revised program, Spring 2019
This certificate provides evidence of skill development for entry-level employment in the preparation of media for visual communication.

Certificate

Student Learning Outcomes:
1. Demonstrate competency in visual communication techniques and visual design theory through the use of application specific software and hardware.

Courses		Units
GRC 20A	Intro to Applied Graphics – Adobe Tools	3
GRC 41	Visual Communications	3
GRC 52	Adobe Lightroom	3
PHOTO 23	Advanced Photoshop	3
		Total 12

Web Design – Major #8502
revised program, Spring 2019
This certificate of achievement is evidence of knowledge of the preparation of graphics and web sites for the Internet. Through the creation and capture of images, creation of animation, and layout/design of pages, the student gains insight into graphic industry standards.

Certificate of Achievement

Student Learning Outcomes:
1. Demonstrate competency in communication techniques and visual design theory through the use of application specific software and hardware.

Courses		Units
GRC 15	Web Page Design	4
GRC 16	Web Design Techniques	4
GRC 24A	Intro 2-D Animation with Adobe Animate, *or*	
GRC 24B	Intro 2-D Animation – Harmony Software	3
GRC 25	CMS Web Design	3
		Total 17

Honors

Leon S. Peters Honors Program – Major #5331
revised program, Spring 2019
A Leon S. Peters Certificate in Honors will be awarded to Honors students who successfully complete a minimum of 15 credits of Honors courses including at least one colloquium unit with an overall GPA of 3.2 or better.

Certificate

Student Learning Outcome:
Because this is a comprehensive general education program, students who complete the Honors Certificate program will be able to:
1. Demonstrate an understanding and appreciation of social, political, and economic institutions within a historical perspective.
2. Express an understanding of the relationships between science and other human activities.
3. Articulate an understanding of the relationships between the arts, the humanities and themselves.
4. Write clear, logically organized essays using expository and argumentative modes and applying conventions of documentation when appropriate.
5. Apply logical reasoning to make decisions, solve problems, explain conclusions, and evaluate evidence.

First Semester Required Course: (Students who have completed ENGL 1A or equivalent should choose 15 units from elective courses.) Units

		Units
ENGL 1AH	Honors Reading and Composition	4

Elective Courses: Select 11 Units with at Least One Colloquium Unit Units

		Units
ANTHRO 2H	Honors Cultural Anthropology	3
ART 5H	Honors Art History 1	3
ART 6H	Honors Art History 2	3

BA 10H	Honors Introduction to Business	3
BIOL 11AH	Honors Biology for Science Majors I	4-5
COMM 8H	Honors Group Communication	3
ECON 40H	Honors Introduction to Microeconomics	3
ECON 50H	Honors Introduction to Macroeconomics	3
ENGL 3H	Honors Critical Reading & Writing	3
HIST 12H	Honors History of the United States since 1877	3
HONORS 1A	Honors Science Colloquium: Biological Science through Scholarly Research	1
HONORS 1C	Honors Humanities Colloquium: Humanities through the Ages	1
HONORS 1D	Honors Business, Economics, and Accounting Colloquium: The Local Economy and Agribusiness	1
HONORS 1E	Honors Social Science Colloquium: Contemporary Issues in Social Science	1
HONORS 1F	Honors Phi Theta Kappa Colloquium: Phi Theta Kappa Study Topics	1
MATH 11H	Honors Elementary Statistics	4
PHIL 1AH	Honors Theories of Knowledge and Reality	3
PHIL 1CH	Honors Ethics	3
PHIL 2H	Honors Critical Reasoning and Analytic Writing	3
POLSCI 2H	Honors American Government	3
PSY 2H	Honors General Psychology	3
SOC 1AH	Honors Introduction to Sociology	3
	Total	15

Photography

Photography, Professional Photography – Formerly Photography – Major #5221
correction, Fall 2018
Students in this curriculum are trained in the major areas of professional photography. Positions for which graduates may qualify, depending upon their interest, abilities, and achievement, include portrait, commercial, editorial, digital, and retail fields. Some equipment and supplies provided.

Certificate of Achievement

Student Learning Outcomes:
1. Produce professional quality photographs in various contemporary formats.

First Year – First Semester		**Units**
PHOTO 6	Digital Imaging Fundamentals	3
PHOTO 12	Beginning Photoshop	3
PHOTO 30	Editorial Photography	3

First Year – Second Semester		**Units**
PHOTO 15	Photography and Visual Literacy	3
PHOTO 23	Advanced Photoshop	3
PHOTO 32	Commercial Portraiture	3

Second Year – First Semester		**Units**
PHOTO 26	Lighting Principles	3
PHOTO 45	Advanced Projects	3
PHOTO 57	Applied Color and Alternative Photographic Media	3
	Total	27

Political Science

Global Studies For Transfer – Major #7740
new program, Fall 2018
The Associate in Arts in Global Studies for Transfer degree is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus, to include Global Studies, Global Politics, International Relations, International Studies and Comparative Government. This degree will acquaint students with the interdisciplinary field of global studies and introduce students to various global issues with a focus on the analysis of causes and solutions. To earn the Associate in Arts in Global Studies for Transfer students must complete at least 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements, and at least 18 units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation

requirements are not required for the transfer degree. Students should consult with a counselor for more information on transfer requirements and university admission.

Associate in Arts

Student Learning Outcomes:
1. Explain the various meanings of globalization and identify regional differences.
2. Explain recurring and emerging global issues from a historical and interdisciplinary perspective.
3. Critically evaluate the effectiveness of national, regional and international efforts to solve problems associated with global issues.

Required Core		**Units**
GLST 1	Introduction to Global Studies	3
GLST 2	Global Issues	3

List A: Select Five Courses from at Least Four of the Following Areas

Area 1: Culture and Society		**Units**
ANTHRO 2	Cultural Anthropology	3
HIST 23	World History II, since 1500	3

Area 2: Geography		**Units**
GEOG 1	Physical Geography	4
GEOG 2	Cultural Geography	3
GEOG 4A	World Geography, *or*	
GOEG 4B	World Geography	3

Area 3: Economics		**Units**
ECON 40/40H	Introduction to Microeconomics, *or*	
	Honors Introduction to Microeconomics	3
ECON 50/50H	Introduction to Macroeconomics, *or*	
	Honors Introduction to Macroeconomics	3

Area 4: Politics		**Units**
POLSCI 5	Comparative Government	3
POLSCI 24	International Relations	3

Area 5: Humanities		**Units**
ENGL 44A	World Literature to the Renaissance	3
ENGL 44B	World Literature since the Renaissance	3
FRENCH 3	Intermediate French, *or*	
SPAN 3	Intermediate Spanish	5

Total 21-24

Radiologic Technology
Radiologic Technology – Major #4570
revised program, Spring 2018
Imaging examinations performed by, and accompanying responsibilities assigned to, a radiographer shall be at the direction of physicians qualified to request and/or perform radiologic procedures. Upon completion of the program the radiographer shall be able to:
1. Apply knowledge of anatomy, physiology, and radiographic techniques to demonstrate accurately anatomical structures on a radiograph or other imaging receptor.
2. Determine exposure factors to achieve optimum radiographic techniques with minimum radiation exposure to the patient.
3. Evaluate radiographic images for appropriate positioning and imaging quality.
4. Apply the principles of radiation protection for the patient, self, and others.
5. Provide patient care and comfort.
6. Recognize emergency patient conditions and initiate lifesaving first aid and basic life support procedures.
7. Evaluate the performance of radiologic systems, know the safe limits of equipment operation, and report malfunctions to the proper authority.
8. Exercise independent judgment and discretion in the technical performance of medical imaging procedures.
9. Participate in radiologic quality assurance programs.
10. Assist in fluoroscopic procedures.
Classes are conducted on the Fresno City College campus. Students also attend classes at local hospitals affiliated with the program for clinical experience. An associate in science degree will be granted upon successful completion of requirements for graduation, which includes formal hospital training. The student will be eligible to take the examination given by the American Registry of Radiologic Technologists upon successful completion of requirements for graduation.

Admission Policy
Enrollment is limited in the Radiologic Technology Program. There are no restrictions as to age, race, or marital status. In order to qualify for admission to the program, the applicant must have met all of the following conditions:

Application Requirements
Minimum prerequisite requirements for application to the Radiological Technology Program follow.
1. Have completed and submitted an Academic Summary Form for the Radiologic Technology Program.
2. Have completed Biology 20, Human Anatomy, and Biology 22, Human Physiology, or Biology 21A, Human Anatomy and Physiology I, and Biology 21B, Human Anatomy and Physiology II (or equivalent), with a grade of "C" or better.
3. Have completed Health Information Technology 10, Medical Terminology(or equivalent), with a grade of "C" or better.
4. Have attained a minimum cumulative grade point average (GPA) of "C+" (2.75) in completed college work.
5. Have no physical impairment that would preclude the performance of all radiologic technology duties.
6. Be in good physical and mental health.
Note: Prior to registration for the semester in which the applicant is scheduled to take courses in Radiologic Technology, the student must submit evidence of physical examination by a licensed physician.

Background Check
Upon entry into the program, students will be required to obtain a background check.

Change of Name, Address, and/or Telephone Number
Applicants and radiologic technology students must keep the Allied Health, Physical Education, and Athletics office informed of any change in name, address, and/or telephone number. Failure of applicants to inform the Allied Health, Physical Education, and Athletics office of this vital information may result in loss of entry into the program.

Academic Requirements
All program entry requirement courses listed above must be completed with a grade of "C" or better. Students in the radiologic technology program must earn a "C" grade or better (or a "Credit" grade when applicable) in all program courses. Less than a "C" or a "Credit" grade in any radiologic technology course requires that the course be repeated before continuing with the major. Courses must be repeated in their entirety. Courses may be repeated once only. Safe professional practice is necessary for retention of students in the program. If a student demonstrates that he/she is unsuited to the profession or is not progressing satisfactorily based on the professional judgment of the faculty, he/she may be asked to withdraw from the program.

Associate in Science

Student Learning Outcomes:
1.   Students will pass the ARRT National Registry Examination on the first attempt.

Radiologic Technology Course Sequence (all courses must be completed with grade of "C" or better)

FIRST YEAR
First Semester		**Units**
RAD 1A	Fundamentals of Radiologic Technology	6
RAD 1B	Basic Radiographic Positioning Laboratory	1
RAD 1C	Clinical Orientation Laboratory	3
RAD 1D	Nursing Procedures in Radiologic Technology	3

Second Semester		**Units**
RAD 2A	Radiation Biology	6
RAD 2B	Advanced Radiographic Positioning Laboratory	1
RAD 2C	Clinical Observation Laboratory	3
RAD 2D	Quality Assurance in Radiologic Technology	1

Summer Semester		**Units**
RAD 3	Basic Clinical Radiologic Technology	8

SECOND YEAR
First Semester		**Units**
RAD 4A	Pathology in Radiologic Technology	2
RAD 4B	Advanced Clinical Radiologic Technology	12
RAD 4C	Advanced Radiographic Positioning Laboratory – Cranium	1

Second Semester		**Units**
RAD 5A	Special Procedures in Radiologic Technology	2
RAD 5B	Specialized Clinical Radiologic Technology	12
RAD 5C	Fluoroscopy	2

Total 63

Theatre Arts
Design/Technical Theatre Studies – Major #5482
revised program, Spring 2019
The Design/Technical Theatre Studies major emphasizes a hands on approach and places special focus on the well-rounded theatre artist. Students who complete the program can successfully transfer to a four-year university or conservatory.

Associate in Arts

Student Learning Outcomes:
1.   Analyze a play in the context of its historical period, structure, theme, character, style and synthesize these components with research in the creation of a theatrical design.
2.   Demonstrate the performance process as an actor from rehearsal to performance.
3.   Demonstrate the production process from construction/installation through technical rehearsals and performance before an audience.

Required Courses		**Units**
TA 23	Technical Theatre Practicum	3
TA 25	Stagecraft	3
TA 30	Theatre Appreciation, *or*	
TA 31	Theatre History and Dramatic Literature I, *or*	
TA 38	Script Analysis	3
TA 35	Costume Crafts	3
TA 41	Beginning Acting, *or*	
TA 42	Beginning Acting for Theatre Majors	3

Select One of the Following Courses

TA 27A	Introduction to Scenic Design	3
TA 27B	Introduction to Lighting Design	3
TA 28	Introduction to Stage Makeup	3
TA 36	Costume Design	3

Select Six Units From the Following List. (Note: Courses used in the above lists may not be repeated for this list.) **Units**

TA 15C	Creative Writing: Playwriting	3
TA 27A	Introduction to Scenic Design	3
TA 27B	Introduction to Lighting Design	3
TA 28	Introduction to Stage Makeup	3
TA 29A	Advanced Technical Theatre Practicum I	1
TA 29B	Advanced Technical Theatre Practicum II	1
TA 31	Theatre History and Dramatic Literature I	3
TA 32	Theatre History and Dramatic Literature II	3
TA 36	Costume Design	3
TA 38	Script Analysis	3
TA 39A	Intermediate Crew Practicum I	3
TA 39B	Intermediate Crew Practicum II	3
TA 40	Performance Practicum	3
TA 45	Kennedy Center American College Theater Festival Topics	3
TA 49	Introduction to Theatre Design	3
		Total 24

Note: Recommended electives for Physical Education: DANCE 10, 11, 12A, 14, & 16.

Theatre Arts – Major #5440
revised program, Spring 2019
The Theatre Arts major is a performance oriented major. It emphasizes a "hands on" approach and places special focus on the "well rounded" theatre artist. Students who complete the program can successfully transfer to a competitive four-year university or conservatory.

Associate in Arts

Student Learning Outcomes:
1.   Demonstrate the acting process from script and character analysis, through a performance before an audience.

2. Demonstrate basic proficiency in technical theatre production.
3. Analyze a play in context of its historical period, structure, theme, character, style and other components of drama.

Required Courses		Units
TA 23	Technical Theatre Practicum	3
TA 25	Stagecraft, or	
TA 35	Costume Crafts, or	
TA 36	Costume Design	3
TA 30	Theatre Appreciation, or	
TA 15C	Creative Writing: Playwriting, or	
TA 38	Script Analysis	3
TA 31	Theatre History and Dramatic Literature I, or	
TA 32	Theatre History and Dramatic Literature II	3
TA 42	Beginning Acting for Theatre Majors	3
TA 43	Intermediate Acting	3
TA 46	Voice for the Actor	3

Three units from the following courses:		Units
TA 28	Introduction to Stage Makeup	3
TA 40	Performance Practicum	3
TA 44A	Actors Workshop	3
TA 48A	Teasers I	0.5
		Total 24

Theatre Arts For Transfer – Major #5445
revised program, Spring 2019
The Associate in Arts in Theatre Arts for Transfer degree is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus. To earn the associate in arts transfer degree, students must complete a maximum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Local graduation requirements are not required for the transfer degree. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. Students are required to complete: A) a minimum of 18 semester units in the major with a grade of C or better while maintaining a minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework. B) 60 semester CSU-transferable units using the California State University-General Education-Breadth pattern (CSU-GE Breadth); OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern. C) No more than 60 semester units are required.

Associate in Arts

Student Learning Outcomes:
1. Identify the literature and styles of theatre.
2. Demonstrate the acting process.
3. Demonstrate the production process.

Required Courses		Units
TA 30	Theatre Appreciation, or	
TA 31	Theatre History and Dramatic Literature I	3
TA 40	Performance Practicum, or	
TA 23	Technical Theatre Practicum	3
TA 41	Beginning Acting, or	
TA 42	Beginning Acting for Theatre Majors	3

Elective Courses: Select 9 Units From the Following Courses.
(NOTE: TA 23 or TA 40 can be taken in this section only if they were not taken as part of the core.) Units

TA 25	Stagecraft	3
TA 27B	Introduction to Lighting Design	3
TA 28	Introduction to Stage Makeup	3
TA 36	Costume Design	3
TA 38	Script Analysis	3
TA 40	Performance Practicum	3
TA 43	Intermediate Acting	3
		Total 18

Course Descriptions
Changes to Pages 229-412

Course Classification System

Credit, Non-degree Applicable
Change: new

Admin of Justice 227A – ICI Major Drug Investigation Course	*effective Spring 2019*
Admin of Justice 227B – ICI Criminal Investigator Core Course	*effective Spring 2019*
Admin of Justice 227C – ICI Vehicle Theft Course	*effective Spring 2019*
Admin of Justice 227D – ICI Advanced Gang Investigations	*effective Spring 2019*
Admin of Justice 233B – Firearms – Tactical Rifle	*effective Spring 2019*
Admin of Justice 233Q – Introduction to Tactical Dispatcher Course	*effective Spring 2019*
Admin of Justice 233R – Response to Active Shooters Update	*effective Spring 2019*
Admin of Justice 233S – Training Conference – Gang Update	*effective Spring 2019*
Admin of Justice 233U – Training Conference – Emotional Survival for Officers Update	*effective Spring 2019*
Admin of Justice 234 – Adult Corrections Officer Core Course	*effective Spring 2019*
Admin of Justice 234A – Adult corrections Officer Core Enhancement Course	*effective Spring 2019*
Admin of Justice 234B – PC 832 Laws of Arrest	*effective Spring 2019*
Admin of Justice 234C – PC 832 Firearms	*effective Spring 2019*
Admin of Justice 235 – Reserve Officer – Firearm Update Training	*effective Spring 2019*
Admin of Justice 235A – Reserve Officer – Vehicle Transition Update Training	*effective Spring 2019*
Admin of Justice 235B – Reserve Officer Driver Awareness Issues – Below 100 Update	*effective Spring 2019*
Admin of Justice 235C – Reserve Officer – E.V.O.C. Update Training	*effective Spring 2019*
Admin of Justice 235D – Reserve Officer – C.P.R. / A.E.D. Update Training	*effective Spring 2019*
Admin of Justice 235E – Reserve Officer – First Aid Update Training	*effective Spring 2019*
Admin of Justice 235F – Reserve Officer – Electronic & Impact Weapons Update Training	*effective Spring 2019*
Admin of Justice 235G – Reserve Officer – Report Writing Update Training	*effective Spring 2019*
Admin of Justice 240F – Principled Policing Update	*effective Spring 2019*
Admin of Justice 240G – First Aid for Medical Injuries Update	*effective Spring 2019*
Admin of Justice 240H – CPR / AED Update Training	*effective Spring 2019*
Admin of Justice 240I – First Aid for Traumatic Injuries Update	*effective Spring 2019*
Admin of Justice 243A – Juvenile Institution Orientation Training	*effective Spring 2019*
Admin of Justice 243B – Expandable Baton Update for Probation Officers	*effective Spring 2019*
Admin of Justice 243C – Pepper Spray Training for Probation Officers	*effective Spring 2019*
Admin of Justice 243D – Basic Use of Force Options for Probation Officers	*effective Spring 2019*
Admin of Justice 243E – Tactical Approaches and Entries for Probation Officers	*effective Spring 2019*
Admin of Justice 243F – Field Tactics Update for Probation Officers	*effective Spring 2019*
Admin of Justice 243G – Offender Behavior Modification	*effective Spring 2019*
Admin of Justice 245D – Detective School	*effective Spring 2019*
Admin of Justice 262 – SB 29 Mental Health Awareness for FTOs	*effective Spring 2019*
Fire Technology 223 – Company Officer 2A: Human Resource Management for Company Officers	*effective Spring 2019*
Fire Technology 224 – Company Officer 2B: General Administrative Functions for Company Officers	*effective Spring 2019*
Fire Technology 225 – Company Officer 2C: Fire Inspections & Investigations for Company Officers	*effective Spring 2019*
Fire Technology 226 – Company Officer 2D: All-Risk Command Operations for Company Officers	*effective Spring 2019*
Fire Technology 227 – Company Officer 2E: Wildland Incident Operations for Company Officers	*effective Spring 2019*
Fire Technology 230A – Fire Apparatus Driver Operator 1A	*effective Spring 2019*
Fire Technology 230B – Fire Apparatus Driver Operator 1B	*effective Spring 2019*
Fire Technology 230C – Fire Apparatus Driver/Operator – Aerial Apparatus	*effective Spring 2019*
Fire Technology 230D – Fire Apparatus Driver/Operator – Water Tender	*effective Spring 2019*
Fire Technology 230E – Fire Apparatus Driver/Operator – Wildland Fire Apparatus	*effective Spring 2019*
Fire Technology 240A – Fire Inspector 1A	*effective Spring 2019*
Fire Technology 240B – Fire Inspector 1B	*effective Spring 2019*
Fire Technology 240C – Fire Inspector 1C	*effective Spring 2019*
Fire Technology 240D – Fire Inspector 1D	*effective Spring 2019*
Fire Technology 260A – Chief Fire Officer 3A	*effective Summer 2019*
Fire Technology 260B – Chief Fire Officer 3B	*effective Summer 2019*
Fire Technology 260C – Chief Fire Officer 3C	*effective Summer 2019*
Fire Technology 260D – Chief Fire Officer 3D	*effective Summer 2019*
Theatre Arts 200 – Movement for the Production The Little Prince	*effective Spring 2019*

Change: delete

Learning Assistance 277A – Essential Skills Workshop Series	*effective Spring 2019*

Noncredit
Change: new
Automotive Tech 373 – Fork Lift Safety and Operation	*effective Summer 2019*
Automotive Tech 374 – State Laws and Federal Regulations	*effective Summer 2019*
Automotive Tech 375 – Safe Operation Fundamentals	*effective Summer 2019*
Automotive Tech 376 – Operations of Commercial Vehicles I	*effective Summer 2019*
Automotive Tech 377 – Operations of Commercial Vehicles II	*effective Summer 2019*
Graphic Communications 314 – Adobe Acrobat Professional	*effective Spring 2019*
Graphic Communications 315 – Web Page Design	*effective Spring 2019*
Graphic Communications 316 – Web Design Techniques	*effective Spring 2019*
Graphic Communications 317 – Adobe Illustrator	*effective Spring 2019*
Graphic Communications 320A – Intro to Applied Graphics – Adobe Tools	*effective Spring 2019*
Graphic Communications 320B – Intro to Applied Graphics – Media	*effective Spring 2019*
Graphic Communications 322 – Digital Media	*effective Spring 2019*
Graphic Communications 323 – Video Editing – Adobe Premiere Pro	*effective Spring 2019*
Graphic Communications 324A – Intro to 2-D Animation with Adobe Animate	*effective Spring 2019*
Graphic Communications 324B – Intro to 2-D Animation – Harmony Software	*effective Spring 2019*
Graphic Communications 325 – CMS Web Design	*effective Spring 2019*
Graphic Communications 327 – Digital Video Production	*effective Spring 2019*
Graphic Communications 330 – Adobe InDesign/Professional Publishing	*effective Spring 2019*
Graphic Communications 331 – Intermediate Photoshop	*effective Spring 2019*
Graphic Communications 332 – Video Techniques	*effective Spring 2019*
Graphic Communications 334 – Introduction to 3-D Animation	*effective Spring 2019*
Graphic Communications 339A – Introduction to Graphic Design	*effective Spring 2019*
Graphic Communications 340A – Intermediate Graphic Design	*effective Spring 2019*
Graphic Communications 341 – Visual Communications	*effective Spring 2019*
Graphic Communications 347 – Introduction to Four Dimensional Design	*effective Spring 2019*
Graphic Communications 351 – Storyboarding	*effective Spring 2019*
Graphic Communications 352 – Adobe Lightroom	*effective Spring 2019*
Graphic Communications 353 – Adobe After Effects	*effective Spring 2019*
Music 348 – Senior Latin Jazz Skills	*effective Spring 2019*
Photography 323 – Advanced Photoshop	*effective Spring 2019*

Courses

Administration of Justice (AJ)

New course   *effective Spring 2019*
227A   ICI Major Drug Investigation Course, 1.5 units, 1.5 lecture hours, (Pass/No Pass), (Open Entry/Open Exit)
     Prerequisite: Administration of Justice 225, Administration of Justice 226, and Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons/equipment involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.
     The Robert Presley Investigation (ICI) Major Drug Investigation Course is one of 14 ICI Foundation Specialty Courses within the Robert Presley Institute of Criminal Investigation. This course is designed for peace officers who are currently assigned or will be assigned to investigate major drug investigations. The course covers drug in field training, undercover surveillance, and counter surveillance. Provides qualifications to identify, arrest, and successfully prosecute various major drug violations. This course is designed to enhance the effectiveness of the individual criminal investigators skills in performing the multi-disciplined, multi-leveled tasks necessary to successfully conduct comprehensive major drug investigations. Instruction in this course is provided through a coordinated, experience-based adult learning approach.

New course   *effective Spring 2019*
227B   ICI Criminal Investigator Core Course, 1.5 units, 1.5 lecture hours, (Pass/No Pass), (Open Entry/Open Exit)
     Prerequisite: Administration of Justice 270B.
     This is the core course for the Robert Presley Institute of Criminal Investigation (ICI) and is the prerequisite program for all subsequent ICI specialty courses. The ICI is designed to improve the effectiveness of individual criminal investigators by providing instruction through a coordinated, experience-based adult learning approach which addresses instruction related to crime scene management, working with victims and witnesses, case management and documentation, interviewing and interrogation skills, search and seizure issues, surveillance techniques, case reporting, informant management, search warrant preparation, courtroom testimony, and media relations.

New course *effective Spring 2019*
227C ICI Vehicle Theft Course, 0.5 unit, 2.33 lab hours, (Pass/No Pass), (Open Entry/Open Exit)
Prerequisite: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons/equipment involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.
This ICI foundation specialty course provides investigators with the basic training techniques, skills and information necessary to conduct successful vehicle theft investigations. This course includes instruction on the following types of vehicle theft investigations: vehicle theft by fraud; Vehicle Identification Number (VIN) switched vehicles; salvaged vehicles, and thefts of construction equipment, watercraft, commercial vehicles and motorcycles. This course also provides students with training related to the preparation and execution of search warrants, and vehicle theft investigative resources such as NICB, insurance companies, financial corporations and/or vehicle dealerships. At the conclusion of this course the student/investigator will be able to: interpret and apply vehicle theft related laws; understand the role and responsibilities of the vehicle theft investigator; determine if a vehicle has been VIN switched; determine if a vehicle has been stolen; utilize appropriate investigative resources to assist in vehicle theft investigations; obtain the identification of a vehicle with the VIN removed; and successfully prepare for and assist in the prosecution of cases involving vehicle theft.

New course *effective Spring 2019*
227D ICI Advanced Gang Investigations, 0.5 unit, 2.33 lab hours, (Pass/No Pass), (Open Entry/Open Exit)
Prerequisite: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons/equipment involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.
Provides investigators with the information and skills to successfully investigate gang related crimes and testify as a gang expert. The course is designed for active, hands-on participation by all students. Course work will include preparation for submitting a gang wiretap affidavit, understanding gang association warrants, a review of both prosecution and defense strategies in gang cases, and preparing for expert testimony. The course will conclude with a mock-courtroom exercise, administered by gang District Attorneys. The student will have an opportunity to practice their gang expert testimony skills with both direct and cross examination.

Change: units, contact hours, prerequisite *effective Spring 2019*
233B Firearms - Tactical Rifle, 0.3 unit, 0.93 lab hour, (Pass/No Pass), (Open Entry/Open Exit)
Prerequisite: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. Must be able to demonstrate physical ability to use a firearm in a safe manner. Must obtain a Department of Justice clearance for firearms possession prior to entering a POST approved course. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency. Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are: Knowledge of proper and safe firearms handling; ability to achieve a qualifying score during AR-15 shooting; knowledge of proper and safe tactical movement; knowledge of, and familiarity with sustained physical performance demands on law enforcement officers under emergency and stressful situations; knowledge of proper weapons transitioning techniques; knowledge of, and familiarity with, California Penal codes used in law enforcement pertaining to use of force; knowledge of case law pertaining to use of force in policing; knowledge of, and familiarity with, use of force continuum and weapon selection used in policing; knowledge of effective verbal communication used in law enforcement; knowledge of effective non-verbal communication used in law enforcement pertaining to use of force warnings; knowledge of, and familiarity with, case law pertinent to law enforcement shootings; ability to perform CPR and First Aid techniques.

New course *effective Spring 2019*
233Q Introduction to Tactical Dispatcher Course, 0.4 unit, 1.4 lab hours, (Pass/No Pass), (Open Entry/Open Exit)
Prerequisite: Administration of Justice 278 and Administration of Justice 284.
Enhance existing public safety dispatcher skills of a seasoned dispatcher to provide advanced dispatching communication knowledge to assist patrol/SWAT officers during high priority critical incidents.

New course *effective Spring 2019*
233R Response to Active Shooters Update, 0.1 unit, 0.58 lab hour, (Pass/No Pass), (Open Entry/Open Exit)
Prerequisite: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons/equipment involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.
Review and update law enforcement responses to active shooter situations that call for single/multiple officer teams, utilizing proper weapon handling, proper room entry techniques, and single/multiple threat assessments and threat contacts.

233S   Training Conference – Gang Update, 0.1-0.3 unit, 0.47-0.93 lab hour, (Pass/No Pass), (Open Entry/Open Exit)
    Prerequisite: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons/equipment involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.
    Review and update law enforcement responses to current gangs, gang internal workings, criminal actions, case follow-up and officer safety concerns updating law enforcement officers and investigators.

233U   Training Conference – Emotional Survival for Officers Update, 0.1-0.3 unit, 0.47-0.93 lab hour, (Pass/No Pass), (Open Entry/Open Exit)
    Prerequisite: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons/equipment involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.
    Review and update how current law enforcement officers cope with stress, physical and emotional challenges.

234   Adult Corrections Officer Core Course, 6 units, 4.5 lecture hours, 5.77 lab hours, (Pass/No Pass), (Open Entry/Open Exit)
    Prerequisite: None.
    Satisfies the requirements for Standards and Training for Corrections (STC), basic correctional academy training.

234A   Adult Corrections Officer Core Enhancement Course, 1 unit, 0.44 lecture hour, 1.9 lab hour, (Pass/No Pass), (Open Entry/Open Exit)
    Prerequisite: Successful completion of Administration of Justice 234 when taken in tandem without a separation between courses (Administration of Justice 234 and Administration of Justice 234A).
    This course is designed as an enhancement to the 176 hour Adult Corrections Core. The course provides training in the following subjects: CPR and First-aid, Chemical Agents, PREA, Carotid Restraint, PepperBall, Excited Delirium, and ADA Issues.

234B   PC 832 Laws of Arrest, 1.5 units, 1.14 lecture hours, 1.2 lab hours, (Pass/No Pass), (Open Entry/Open Exit)
    Prerequisite: None.
    Basics in arrest and control techniques and knowledge of California laws related to the requirements of Section 832 (Level III) of the California Penal Code.

234C   PC 832 Firearms, 0.4 unit, 1.4 lab hours, (Pass/No Pass), (Open Entry/Open Exit)
    Prerequisite: Must be able to demonstrate physical ability to use a firearm in a safe manner. Must obtain a Department of Justice clearance for firearms possession prior to entering a POST approved course.
    Basic use of firearms to fulfill the requirements of section 832 of the California Penal Code.

235   Reserve Officer - Firearm Update Training, 0.1 unit, 0.06 lecture hour, 0.18-0.28 lab hour, (Pass/No Pass), (Open Entry/Open Exit)
    Prerequisite: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.
    Updates firearms skills related to reserve peace officers working with full-time officers, designed for working reserve officers qualified to carry law enforcement firearms.

235A   Reserve Officer - Vehicle Transition Update Training, 0.1 unit, 0.06 lecture hour, 0.18-0.28 lab hour, (Pass/No Pass), (Open Entry/Open Exit)
    Prerequisite: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons involved in the course. Students must have completed any related basic

certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Identifies the various vehicle handling/driving differences from standard Ford sedans to All-wheel drive Explorers used in law enforcement vehicles, handling and equipment placement issues.

New course   *effective Spring 2019*
235B   Reserve Officer Driver Awareness Issues - Below 100 Update, 0.1 unit, 0.06 lecture hour, 0.18-0.28 lab hour, (Pass/No Pass), (Open Entry/Open Exit)
Prerequisite: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Review common driving issues encounter by patrol officers that cause accidents, injuries, deaths and review positive driving practices to reduce officer driving death.

New course   *effective Spring 2019*
235C   Reserve Officer - E.V.O.C. Update Training, 0.1 unit, 0.06 lecture hour, 0.18-0.28 lab hour, (Pass/No Pass), (Open Entry/Open Exit)
Prerequisite: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Provide instruction on the proper driving techniques to maneuver a vehicle at both slow speeds and high speeds. Allowing students to get first-hand experience at driving at slow speed and high speed under different circumstances and having to utilize the radio and stay aware of other vehicles on the roadway.

New course   *effective Spring 2019*
235D   Reserve Officer - C.P.R. / A.E.D. Update Training, 0.1 unit, 0.06 lecture hour, 0.18-0.34 lab hour, (Pass/No Pass), (Open Entry/Open Exit)
Prerequisite: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Provides updated information or techniques necessary to perform C.P.R. and A.E.D. during medical emergencies in the field for reserve officers.

New course   *effective Spring 2019*
235E   Reserve Officer - First Aid Update Training, 0.1 unit, 0.06 lecture hour, 0.18-0.28 lab hour, (Pass/No Pass), (Open Entry/Open Exit)
Prerequisite: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Provide working reserve officers updated information and techniques common to infield injuries encountered by public safety.

New course   *effective Spring 2019*
235F   Reserve Officer - Electronic & Impact Weapons Update Training, 0.1 unit, 0.06 lecture hour, 0.18-0.28 lab hour, (Pass/No Pass), (Open Entry/Open Exit)
Prerequisite: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Techniques for the proper use of expandable batons and electronic weapons, as well as legal update information for those weapons used by public safety.

New course   *effective Spring 2019*

235G Reserve Officer - Report Writing Update Training, 0.1 unit, 0.06 lecture hour, 0.18-0.28 lab hour, (Pass/No Pass), (Open Entry/Open Exit)
    Prerequisite: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.
    Information on writing skills associated with the documentation of public safety incidents, proper sentence structure, writing styles, formatting and required information for prosecution of incidents or crimes.

New course   *effective Spring 2019*
240F Principled Policing Update, 0.1 unit, 0.47 lab hour, (Pass/No Pass), (Open Entry/Open Exit)
    Prerequisite: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.
    Principled policing teaches policing approaches to law enforcement officers that emphasize respect, listening, neutrality and trust while also addressing the common implicit biases that can be barriers to this approach.

New course   *effective Spring 2019*
240G First Aid for Medical Injuries Update, 0.1 unit, 0.06 lecture hour, 0.18 lab hour, (Pass/No Pass), (Open Entry/Open Exit)
    Prerequisite: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.
    Identify medical emergencies including childbirth, and provide basic life support skills and treatment.

New course   *effective Spring 2019*
240H CPR / AED Update Training, 0.1 unit, 0.06 lecture hour, 0.18 lab hour, (Pass/No Pass), (Open Entry/Open Exit)
    Prerequisite: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.
    Identify sudden cardiac arrest and demonstrate proper CPR and use of the Automatic External Defibrillator.

New course   *effective Spring 2019*
240I First Aid for Traumatic Injuries Update, 0.1 unit, 0.06 lecture hour, 0.18 lab hour, (Pass/No Pass), (Open Entry/Open Exit)
    Prerequisite: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.
    Identify priorities in patient assessment and treatment of traumatic injuries confronted by law enforcement field officers.

New course   *effective Spring 2019*
243A Juvenile Institution Orientation Training, 0.5 unit, 1.8 lab hours, (Pass/No Pass), (Open Entry/Open Exit)
    Prerequisite: Administration of Justice 286.
    Orientation skills essential for newly hired Juvenile Correctional Officers to meet performance standards and to obtain benefits from subsequent on-the-job training.

New course   *effective Spring 2019*
243B Expandable Baton Update for Probation Officers, 0.1 unit, 0.46 lab hour, (Pass/No Pass), (Open Entry/Open Exit)
    Prerequisite: Administration of Justice 285. Prior to beginning this course, students must already be familiar with the nomenclature, control holds, take downs, strikes, patterns of movement, and the California Penal Codes used in law enforcement pertaining to the expandable baton.
    Expandable baton techniques directed toward probation officers working in the field.

New course   *effective Spring 2019*
243C   Pepper Spray Training for Probation Officers, 0.1 unit, 0.46 lab hour, (Pass/No Pass), (Open Entry/Open Exit)
       Prerequisite: Administration of Justice 285 or Administration of Justice 286.
       Pepper spray deployments and decontamination for probation officers working in the field, and juvenile correctional officers working in a juvenile institution.

New course   *effective Spring 2019*
243D   Basic Use of Force Options for Probation Officers, 0.1 unit, 0.46 lab hour, (Pass/No Pass), (Open Entry/Open Exit)
       Prerequisite: Administration of Justice 285 or Administration of Justice 286.
       Force options training for probation officers and juvenile correctional officers. Understanding of case law, arrest and control techniques, pepper spray, restraints, and restraint techniques.

New course   *effective Spring 2019*
243E   Tactical Approaches and Entries for Probation Officers, 0.3 unit, 0.93 lab hour, (Pass/No Pass), (Open Entry/Open Exit)
       Prerequisite: Administration of Justice 285. Legal understanding of use of force and experience handling a law enforcement firearm. Carries a firearm as part of issued equipment.
       Tactical approaches and entries into a residence or building, clearing rooms and addressing potential threats. Simunitions equipment is utilized for probation officers working in the field in this training.

New course   *effective Spring 2019*
243F   Field Tactics Update for Probation Officers, 0.1 unit, 0.46 lab hour, (Pass/No Pass), (Open Entry/Open Exit)
       Prerequisite: Administration of Justice 285. Experience handling and shooting a law enforcement firearm. Carries a firearm as part of issued equipment.
       Field tactics update for probation officers conducting probation checks on probationers. Simunitions equipment is utilized for approach and entry scenario training.

New course   *effective Spring 2019*
243G   Offender Behavior Modification, 0.4 unit, 1.4 lab hours, (Pass/No Pass), (Open Entry/Open Exit)
       Prerequisite: Administration of Justice 285 or Administration of Justice 286. Working in a probation assignment that supervises high-risk felony offenders.
       The three components of Cognitive Self-Change, Social Skills, and Problem Solving are the nexus to Thinking for a Change offender behavior modification. Directed toward officers working in a juvenile detention facility or probation officers in the field.

Change: hours, weeks, prerequisite   *effective Spring 2019*
245D   Detective School, 0.4 unit, 1.4 lab hours, (Pass/No Pass)
       Prerequisite: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. Must be able to demonstrate physical ability to use a firearm in a safe manner. Must obtain a Department of Justice clearance for firearms possession prior to entering a POST approved course. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency. Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are: Knowledge of proper and safe firearms handling; ability to achieve a qualifying score during AR-15 shooting; knowledge of proper and safe tactical movement; knowledge of, and familiarity with sustained physical performance demands on law enforcement officers under emergency and stressful situations; knowledge of proper weapons transitioning techniques; knowledge of, and familiarity with, California Penal codes used in law enforcement pertaining to use of force; knowledge of case law pertaining to use of force in policing; knowledge of, and familiarity with, use of force continuum and weapon selection used in policing; knowledge of effective verbal communication used in law enforcement; knowledge of effective non-verbal communication used in law enforcement pertaining to use of force warnings; knowledge of, and familiarity with, case law pertinent to law enforcement shootings; ability to perform CPR and First Aid techniques.

New course   *effective Spring 2019*
262   SB 29 Mental Health Awareness for FTOs, 0.1 unit, 0.47 lab hour, (Pass/No Pass), (Open Entry/Open Exit)
       Prerequisite: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons/equipment involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.
       8-hour mental health awareness information required for newly assisted Field Training Officers (FTOs) to conform with California Senate Bill 29.

Allied Health (AHLTH)

New course *effective Summer 2019*
20 Improving Cultural Competence through Cross-Cultural Experience, 2 units, 2 lecture hours
  Advisory: Eligibility for English 1A recommended.
  Identifying cultural and spiritual differences and developing strategies to overcome potential conflicts. Intended for study abroad. (A, CSU)

New course *effective Summer 2019*
21 Culturally Relevant Health Promotion, 2 units, 2 lecture hours
  Advisory: Eligibility for English 1A recommended.
  Short term field study abroad course to research and identify basic health promotion activities relevant to the country and local ethnic groups. (A, CSU)

Art (ART)

New course *effective Summer 2019*
80 Topics in Art, 2 units, 2 lecture hours
  Prerequisite: None.
  Examination of art and art historical topics, themes and cultures in conjunction with field studies and participation in departmental study abroad program. Course content to be determined by faculty in relation to the locale of the class. Course content may include lectures, seminars, and tours. (A, CSU)

Automotive Technology (AUTOT)

New course *effective Spring 2019*
10 Introduction to Diesel Technology, 3 units, 3 lecture hours
  Advisory: Eligibility for English 1A and Mathematics 201 recommended.
  Introduction to the field of diesel-powered trucks and equipment maintenance and service. Shop safety, industrial fasteners, hydraulic fittings, technician tool requirements, service shop organization, service procedures, maintenance schedules, and measuring tools. Designed for students majoring in Diesel Technology or those interested in the industry. (A, CSU)

Change: units, contact hours, corequisite *effective Summer 2019*
51 Principles of Engine Theory and Service, 4 units, 1.5 lecture hours, 8 lab hours, (See also Automotive Technology GM 51), (Formerly Automotive Mechanics 51L)
  Corequisite: Automotive Technology 9. **Advisory:** Eligibility for English 1A recommended. Eligibility for Mathematics 201 recommended.

Change: units, contact hours, weeks *effective Spring 2019*
52 Automotive Electrical Systems, 4 units, 1.5 lecture hours, 8 lab hours, (See also Automotive Technology GM 52), (Formerly Automotive Mechanics 52)

Change: units, contact hours, weeks *effective Spring 2019*
53 Engine Performance, 4 units, 1.5 lecture hours, 8 lab hours, (See also Automotive Technology GM 53)

Change: units, contact hours, weeks *effective Spring 2019*
57 Automotive Heating, Ventilation, Air Conditioning, and Advanced Electronics, 4 units, 1.5 lecture hours, 8 lab hours, (See also Automotive Technology GM 57), (Formerly Automotive Technology 60)

New course *effective Spring 2019*
61 Diesel Engines, 4 units, 1.5 lecture hours, 8 lab hours
  Prerequisite: Automotive Technology 10. ADVISORY: Eligibility for English 1A and Mathematics 201 recommended.
  Diesel engine design and operation including diagnosis, failure analysis, and service practices. Designed for students who intend to develop service skills applicable to the diesel technology industry and to accompany work experience in the trade. (A, CSU)

New course *effective Spring 2019*
62 Electrical/Electronics for Diesel Technology, 4 units, 1.5 lecture hours, 8 lab hours
  Prerequisite: Automotive Technology 10. **Advisory:** Eligibility for English 1A and Mathematics 201 recommended.
  Electrical theory and operation of the diesel medium-duty/heavy-duty truck electrical components and systems. Testing, diagnosing, and repairing electrical components and systems including truck computer controls using necessary equipment. Designed to accompany work experience in the trade. (A, CSU)

New course *effective Spring 2019*

63   Diesel Fuel and Emission Systems, 4 units, 1.5 lecture hours, 8 lab hours

Prerequisite: Automotive Technology 10. **Advisory:** Eligibility for English 1A and Mathematics 201 recommended.

Theory and operation for the different types of diesel technology engine performance and emission control systems. Latest technologies in diesel technology fuel delivery, emission control, and induction systems. Testing, diagnosing, and repairing fuel, emission, glow plug, and CAN network systems. Use of necessary test equipment. Designed to accompany work experience in the trade. (A, CSU)

New course *effective Spring 2019*

64   MD/HD Suspension, Steering, and Alignment, 4 units, 1.5 lecture hours, 8 lab hours

Prerequisite: Automotive Technology 10. **Advisory:** Eligibility for English 1A and Mathematics 201 recommended.

Theory and practical application of Medium-duty/Heavy-duty truck, bus, and trailer alignment, steering, and suspension systems. Operating principles, component description, diagnosis, repair, and service adjustments. Designed to accompany work experience in the trade. (A, CSU)

New course *effective Spring 2019*

65   MD/HD Powertrain Systems, 6 units, 3 lecture hours, 10 lab hours

Prerequisite: Automotive Technology 10. **Advisory:** Eligibility for English 1A and Mathematics 201 recommended.

The principles of diesel technology power train systems: automatic and manual transmissions, clutches, driveaxles, drivelines, and differential systems. Topics include transmission types, powerflow, disassembly, component inspection, reassembly guidelines, air shift systems, troubleshooting procedures, and gear ratio calculations. Maintenance, diagnosis, service, and repair. Designed to accompany work experience in the trade. (A, CSU)

New course *effective Spring 2019*

66   MD/HD Brakes and Preventative Maintenance Inspection (PMI), 4 units, 1.5 lecture hours, 8 lab hours

Prerequisite: Automotive Technology 10. **Advisory:** Eligibility for English 1A and Mathematics 201 recommended.

Complete disassembly and reassembly of various truck braking systems. The fundamentals of operation, wear analysis, preventive maintenance, and major service of truck undercarriages. Operating principles, component description, diagnosis, repair, and service adjustments of heavy-duty transportation and equipment air brake systems. Designed to accompany work experience in the trade. (A, CSU)

New course *effective Spring 2019*

67   MD/HD Heating, Ventilation, Air Conditioning and Advanced Electronics, 4 units, 1.5 lecture hours, 8 lab hours

Prerequisite: Automotive Technology 10, 62, and 63. **Advisory:** Eligibility for English 1A and Mathematics 201 recommended.

Theory and practice in truck and trailer heating, ventilation, and air-conditioning systems/components. Refrigeration systems, recovery, recycling, charging, leak, and performance testing. Diagnosis, service, and repair of the advance truck/trailer electronics, automatic temperature/ climate control, and other CAN/Computer controlled systems found on today's late model trucks/trailers. Designed to accompany work experience in the trade. (A, CSU)

New course *effective Summer 2019*

68A   Individualized Skills Training (IST) Truck & Bus Chassis System II Laboratory, 1 unit, 4 lab hours

Advisory: Eligibility for English 1A recommended. Working knowledge of basic arithmetic is recommend.

Designed for students to complete assigned truck and bus manufacturers' training modules: Hands-On (HO)/Instructor Led Training (ILT), Computer-Based Training (CBT), Web-Based Training (WBT), and/or Video-Based Training (VBT) with instructor supervision. Provide the most current and up-to-date technology for students pursuing a career in Diesel Technology Advanced Chassis Systems. Designed to accompany work experience in the trade. (A, CSU)

New course *effective Summer 2019*

68B   Individualized Skills Training (IST) Truck & Bus Engine/Propulsion Systems, 1 unit, 4 lab hours

Advisory: Eligibility for English 1A recommended. Working knowledge of basic arithmetic is recommend.

Designed for students to complete assigned truck and bus manufacturers' training modules: Hands-On (HO)/Instructor Led Training (ILT), Computer-Based Training (CBT), Web-Based Training (WBT), and/or Video-Based Training (VBT) with instructor supervision. Provide the most current and up-to-date technology for students pursuing a career in Diesel Technology Engine/Propulsion Systems. Designed to accompany work experience in the trade. (A, CSU)

New course *effective Summer 2019*

373   Fork Lift Safety and Operation, 1 lecture hour, 3 lab hours, (20 weeks), (Pass/No Pass), (Repeats = 3)

Practical and theoretical training in the operation of forklift and pallet jack and how it works. Student receive training while driving on a planned course, loading and unloading commercial vehicles and load securement, with a continuous emphasis on safe driving and operation. Students also develop their skills in minor maintenance for good pre-trip and post-trip inspection.

New course *effective Summer 2019*

374   State Laws and Federal Regulations, 1 lecture hour, (20 weeks), (Pass/No Pass), (Repeats = 3)

Provide students with an understanding of California and federal motor vehicle traffic laws, highway traffic regulations, and driver's license laws needed to understand and demonstrate the ability to drive in accordance with laws and regulations.

New course   *effective Summer 2019*
375   Safe Operation Fundamentals, 6 lab hours, (20 weeks), (Pass/No Pass), (Repeats = 3)
   Provide practical and theoretical instruction in the techniques needed to drive defensively and prevent accidents in spite of the incorrect actions of others and adverse conditions. Students are prepared to recognize and perform first aid treatment in dealing with major emergencies, both medical and accidental. The course also explains and demonstrates safe practices in using and selecting proper tools for the job, both in the shop and on the road.

New course   *effective Summer 2019*
376   Operations of Commercial Vehicles I, 1 lecture hour, 6 lab hours, (20 weeks), (Pass/No Pass), (Repeats = 3)
   Provide practical and theoretical knowledge in the operation of two- and three-axle tractor trailer combinations on a driving range and highway. Student will develop the hand, eye, and foot coordination for shifting a 10-speed dual-range transmission. Additionally students will be oriented in California state laws pertaining to a commercial motor vehicle, which prepares them for the CDL Skills and Knowledge Test for the Class A license.

New course   *effective Summer 2019*
377   Operations of Commercial Vehicles II, 9 lab hours, (20 weeks), (Pass/No Pass), (Repeats = 3)
   Prerequisite: Automotive Technology 376.
   Provide practical and theoretical knowledge in the operation of five-axle commercial vehicles with a GVWR of 80,000 lbs. and lengths over 65 feet, including single and double trailers. Students will learn to operate various types of dual-range transmissions on the driving range and in real-life city and highway traffic. Students will receive 2,000 – 2,500 miles of road experience with empty and loaded trailers.

Automotive Technology GM (ATGM)

Change: units, contact hours, corequisite   *effective Summer 2019*
51   Principles of Engine Theory and Service, 4 units, 1.5 lecture hours, 8 lab hours, (See also Automotive Technology 51)
   Corequisite: Automotive Technology 9. **Advisory:** Eligibility for English 1A recommended. Eligibility for Mathematics 201 recommended.

Change: units, contact hours, weeks   *effective Spring 2019*
52   Automotive Electrical Systems, 4 units, 1.5 lecture hours, 8 lab hours, (See also Automotive Technology 52), (Formerly Automotive Technology General Motors 32)

Change: units, contact hours, weeks   *effective Spring 2019*
53   Engine Performance, 4 units, 1.5 lecture hours, 8 lab hours, (See also Automotive Technology 53), (Formerly Automotive Technology General Motors 32)

Change: units, contact hours, weeks   *effective Spring 2019*
57   Automotive Heating, Ventilation, Air Conditioning, and Advanced Electronics, 4 units, 1.5 lecture hours, 8 lab hours, (See also Automotive Technology 57), (Formerly Automotive Technology General Motors 34)

Biology (BIOL)

Course deleted   *effective Spring 2019*
3H   Honors Introduction to Life Science, 4 units, 3 lecture hours, 2 lab hours

Change: description   *effective Spring 2019*
5   Human Biology, 4 units, 3 lecture hours, 2 lab hours
   Advisory: Eligibility for English 1A and Mathematics 201 recommended.
   An overview of the cellular, molecular, genetic, and systems basis of life with an emphasis on the human body. For allied health majors. Fulfills prerequisites for Biology 20, 21A, and 31. (A, CSU-GE, UC, I)

Change: prerequisite   *effective Spring 2019*
11AH Honors Biology for Science Majors I, 5 units, 4 lecture hours, 3 lab hours
   Prerequisite: Mathematics 103 and Chemistry 1A within the last five years recommended.

Change: prerequisite   *effective Spring 2019*
20   Human Anatomy, 4 units, 3 lecture hours, 3 lab hours
   Prerequisite: Biology 5 or Biology 11A with a grade "C" or better. Completion within the last year recommended.
Change: description   *effective Spring 2019*
21A   Human Anatomy & Physiology I, 4 units, 3 lecture hours, 3 lab hours
   Prerequisite: Biology 5 or 11A with a grade of "C" or better. **Corequisite:** Chemistry 3A. **Advisory:** Eligibility for English 1A recommended.

The first class in a two semester human anatomy and physiology sequence. Biology 21A and 21B are designed to prepare students planning careers in healthcare including nursing. Not open to students with credit in both Biology 20 and Biology 22. (C-ID BIOL 115S = BIOL 21A + 21B) (A, CSU-GE, UC, I)

Change: description   *effective Spring 2019*
22   Human Physiology, 5 units, 4 lecture hours, 3 lab hours
      Prerequisite: Biology 20 or equivalent and Chemistry 3A or equivalent, each with a grade of "C" or better. Completion within the last year recommended. **Advisory:** Eligibility for English 1A recommended.
      An examination of the functional relationships of the human body at the system, organ, and cellular levels, utilizing homeostasis as a unifying theme. Fulfills the physiology requirement for many nursing and other health-related programs. (C-ID BIOL 120B) (A, CSU-GE, UC, I)

Course deleted   *effective Spring 2019*
24   Human Anatomy and Physiology, 5 units, 4 lecture hours, 3 lab hours

Change: description   *effective Spring 2019*
47   Topics in Biology, 1-3 units, 1-3 lecture hours, 3 lab hours
      Advisory: Eligibility for English 1A recommended.
      Current topics of biological importance and concern outside the regular biology curriculum or topics that will be covered in greater depth than in a regularly offered course. (A, CSU)

Business Administration (BA)

Change: prerequisite, advisory   *effective Spring 2019*
38   Operation of the Small Business, 3 units, 3 lecture hours
      Prerequisite: Business Administration 52 or equivalent experience creating, operating, or managing a startup or established business. **Advisory:** Eligibility for English 1A recommended.

Change: advisory, description   *effective Spring 2019*
51   Business Planning and New Venture Launch, 1.5 units, 1.5 lecture hours
      Advisory: Business Administration10 and eligibility for English 1A recommended.
      Business plan development. Review of resources available to assist entrepreneurs in developing and launching a business including sources of funding. (A, CSU)

Chemistry (CHEM)

Course deleted   *effective Spring 2019*
42   Topics in Chemical Education, 1-4 units, 1-4 lecture hours, (Pass/No Pass)

Computer Aided Manufacturing (CAM)

Change: course number, title, units, hours, prerequisite, advisory, description   *effective Spring 2019*
5   CNC Operation & Maintenance for Machinist, 2.5 units, 1.5 lecture hours, 3 lab hours, (Formerly Computer Aided Manufacturing 25)
      Advisory: Eligibility for English 1A recommended.
      Learn how to read part prints and use measurement tools for first part inspection setup & operation CNC Mill & Lathe Machine, learn the G&M Codes for tool programming, shop safety and preform basic maintenance. (A, CSU)

Change: units, hours, advisory, description   *effective Spring 2019*
10   CNC Mill Programming & Operation I, 4 units, 2 lecture hours, 6 lab hours, (Formerly Drafting and Computer Aided Drafting and Design 44)
      Advisory: Eligibility for English 1A recommended.
      The CAM 10 class is designed to teach entry-level Machinist to design 3D parts in Mastercam and Fusion 360 CAD/CAM software. This core class is first in a sequence for the CNC Machinist career. (A, CSU)

Change: title, units, hours, prerequisite, description   *effective Spring 2019*
15   CNC Programming for Machinist, 2.5 units, 1.5 lecture hours, 3 lab hours
      Prerequisite: Computer Aided Manufacturing 10, Computer Aided Drafting and Design 14, or Computer Aided Drafting and Design 16.
      Designed for students who have CAD (Computer Aided Design) experience and are interested in CAM (Computer Aided Machining) CAD/CAM. Students will use Mastercam & Fusion 360 tool programming software packages for Computer Numerical Control part programming. (A, CSU)

Change: units, hours, description   *effective Spring 2019*
20   CNC Mill Programming & Operation II, 4 units, 2 lecture hours, 6 lab hours
     Prerequisite: Computer Aided Manufacturing 10.
     The CAM 20 Class is an intermediate Digital Manufacturing course that teaches students the skill of CNC Machine setup/Operation & 3D Solid Geometry Design with Mastercam & Fusion 360 for Mill Tool Programming. (A, CSU)

Change: description   *effective Spring 2019*
26   Lathe Programming and Operation II, 3 units, 2 lecture hours, 3 lab hours
     Prerequisite: Computer Aided Manufacturing 10.
     Mastercam & Fusion 360 is the 3D Solid Designing and Tool Programming software for the Computer Numerical Control Operation Lathe course. Learn how to create production parts for part inspection. (A, CSU)

New course   *effective Spring 2019*
31   Multi-Axis Milling & Programming, 3 units, 2 lecture hours, 3 lab hours
     Corequisite: Computer Aided Manufacturing 20.
     Multi-Axis Milling & Programming class is design to teach advance CAD/CAM tools for Multi-Axis Tool machining and Part Fixtures used in today's job shops. (A, CSU)

Communication (COMM)

Change: description   *effective Spring 2019*
12   Fundamentals of Oral Interpretation, 3 units, 3 lecture hours, (Formerly Speech 12), (See also Theatre Arts 12)
     Advisory: Eligibility for English 1A recommended.
     An introduction to performance studies: analysis, appreciation, and application of theories of interpretive performance of various forms of literature including poetry, prose, and drama. (A, CSU-GE, UC)

Computer Information Technology (CIT)

Change: prerequisite, advisory   *effective Spring 2019*
62   Beginning Objective C Programming, 4 units, 4 lecture hours, 1 lab hour
     Advisory: Computer Information Technology 15 and eligibility for English 1A.

Change: prerequisite, advisory   *effective Spring 2019*
63   Beginning Java Programming, 4 units, 4 lecture hours, 1 lab hour
     Advisory: Computer Information Technology 15 and eligibility for English 1A.

Change: prerequisite, corequisite   *effective Spring 2019*
65   Android Programming Applications, 4 units, 4 lecture hours, 1 lab hour
     Corequisite: Computer Information Technology 63.

Change: prerequisite, advisory   *effective Spring 2019*
66   Beginning C++ Programming, 4 units, 4 lecture hours, 1 lab hour
     Advisory: Computer Information Technology 15 and eligibility for English 1A.

Change: prerequisite, corequisite   *effective Spring 2019*
69   iOS Programming Applications, 4 units, 4 lecture hours, 1 lab hour
     Corequisite: Computer Information Technology 62 or 70.

Change: advisory   *effective Spring 2019*
70   Beginning Swift Programming, 4 units, 4 lecture hours, 1 lab hour
     Advisory: Eligibility for English 1A. Computer Information Technology 15.

Construction (CONS)

New course   *effective Spring 2019*
50   Basic Residential Construction, 4 units, 3 lecture hours, 4 lab hours
     Advisory: Eligibility for English 1A and Applied Technology 130 or Mathematics 201 recommended.
     General introductory and basic skills in residential construction. Emphasis on hand and power tool use. Foundations, framing, roofing, interior and exterior finish techniques and materials. (A, CSU)

Change: description   *effective Spring 2019*
50A   Basic Residential Construction, 3 units, 2 lecture hours, 3 lab hours, (Formerly Construction 50)
     Advisory: Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.

This course provides students with general basic residential construction knowledge and skills including guided hands on practice using hand and power tools to complete simple construction projects including, but not limited to: Concrete, framing and roofing. (A, CSU)

Change: description   *effective Spring 2019*
50B   Basic Residential Construction, 3 units, 2 lecture hours, 3 lab hours
    Advisory: Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.
    General introductory and basic skills in residential construction. Emphasis on hand and power tools, interior and exterior finish, finish carpentry and roofing. (A, CSU)

Change: advisory, description   *effective Spring 2019*
51   Residential Construction: Foundations and Framing, 9 units, 4 lecture hours, 16 lab hours, (Formerly Construction 51/52)
    Advisory: Construction 50A or Construction 50. Eligibility for English 1A and Applied Technology 130 or Mathematics 201 recommended.
    Hands-on construction of a residential house including construction of foundation forms, installation of rough plumbing, placement and finishing of concrete, lay out and construction of wall framing, placement of roof trusses and construction of associated roof framing, and the application of roofing material. (A, CSU)

Change: description   *effective Spring 2019*
52A   Introductory Construction Management 1, 9 units, 4 lecture hours, 16 lab hours
    Advisory: Construction 51 and 53 and eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.
    Learn basic construction management skills while taking on the role of lead carpenter during the construction of a home in our community. (A, CSU)

Change: description   *effective Spring 2019*
52B   Introductory Construction Management 2, 9 units, 4 lecture hours, 16 lab hours
    Advisory: Construction 51 and 53 and eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.
    Students will learn basic construction management skills while taking on the role of lead carpenter during the construction of the construction program's project house or residential related projects. (A, CSU)

Change: advisory, description   *effective Spring 2019*
53   Residential Construction: Exterior and Interior Finish, 9 units, 4 lecture hours, 16 lab hours, (Formerly Construction 53/54)
    Advisory: Construction 50 or Construction 50B. Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.
    Hands on construction of a residential related project, including window and door installation, stucco lathing, siding installation, drywall hanging and finishing, cabinet and hardware installation, finish carpentry, interior and exterior painting, fencing, and concrete flat work including driveways and walks. (A, CSU)

Change: advisory, description   *effective Spring 2019*
55   Roof Framing Systems, 2.5 units, 1 lecture hour, 5 lab hours
    Advisory: Construction 50 or Construction 50A. Eligibility for English 1A and Applied Technology 130 or Mathematics 201 recommended.
    Introduction to conventional and truss roof framing in residential construction including hands on construction of roof structures. You will learn about load path and structural integrity. Includes methods to calculate rafter, hip and other roof framing member lengths. (A, CSU)

Course deleted   *effective Spring 2019*
56   Residential Plumbing, 3 units, 2 lecture hour, 4 lab hours
Change: advisory, description   *effective Spring 2019*
56A   Residential Plumbing 1, 3 units, 2 lecture hours, 4 lab hours
    Corequisite: Construction 56AL. **Advisory:** Construction 50A or Construction 50. Eligibility for English 1A and Applied Technology 130 or Mathematics 201 recommended.
    Learn to design and install a residential waste, supply water and gas system by hands on installation in a home being built on a permanent site. You will also learn how the plumbing code affects how you design and install your plumbing work. Familiarization with the uniform plumbing code including inspection of systems leading to possible I.A.P.M.O. and or I.C.C. certification. (A, CSU)

Change: advisory, description   *effective Spring 2019*
56AL Residential Plumbing Lab 1, 0.5 unit, 1.5 lab hours
    Corequisite: Construction 56A. **Advisory:** Construction 56A and Construction 50A or Construction 50. Eligibility for English 1A and Applied Technology 130 or Mathematics 201 recommended.
    Off campus lab activity installing plumbing systems in the Fresno City College Project House. To be taken concurrently (same semester) with Construction 56A. (A, CSU)

Change: advisory, description   *effective Spring 2019*
56B   **Residential Plumbing 2, 3 units, 2 lecture hours, 4 lab hours**
        Corequisite: Construction 56BL. **Advisory:** Construction 50A or Construction 50. Eligibility for English 1A and Applied Technology 130 or Mathematics 201 recommended.
        Correct installation techniques for residential finish plumbing fixtures and the code requirements associated with them. Familiarization with the uniform plumbing code including inspection of systems leading to possible I.A.P.M.O. and or I.C.C. certification. Construction 56B to be taken concurrently (same semester) with Construction 56BL. (A, CSU)

Change: advisory, description   *effective Spring 2019*
56BL   **Residential Plumbing Lab 2, 0.5 unit, 1.5 lab hours**
        Corequisite: Construction 56B. **Advisory:** Construction 50A or Construction 50. Eligibility for English 1A and Applied Technology 130 or Mathematics 201 recommended.
        Off campus lab activity installing plumbing systems in the Fresno City College on site project house. To be taken concurrently (same semester) with Construction 56B. (A, CSU)

Change: advisory, description   *effective Spring 2019*
60   **Energy Efficient Remodeling, 8 units, 4 lecture hours, 13 lab hours**
        Advisory: Construction 50A and Construction 50B or Construction 50 or Construction 53. Eligibility for English 1A and Applied Technology 130 or Mathematics 201 recommended.
        Cosmetic and structural residential improvements with an emphasis on improving energy efficiency. Lab to be hands on in an existing home. (A, CSU)

Change: advisory   *effective Spring 2019*
65   **Fundamental Construction Elements, 3 units, 3 lecture hours**
        Advisory: Eligibility for English 1A and Applied Technology 130 recommended.

Change: advisory   *effective Spring 2019*
149   **Introduction to Construction, 3 units, 2 lecture hours, 3 lab hours**
        Advisory: Eligibility for English 1A and Applied Technology 130 recommended.

Course deleted   *effective Spring 2019*
175   **Residential Wiring, 4 units, 3 lecture hour, 4 lab hours, (Formerly Construction 75), (See also Electrical Systems Technology 175)**

Change: corequisite, advisory, description   *effective Spring 2019*
175A **Residential Wiring 1, 4 units, 3 lecture hours, 3 lab hours, (See also Electrical Systems Technology 175A)**
        Corequisite: Construction 175AL. **Advisory:** Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.
        Introduction to electrical code, installation methods. Electrical circuits, hands on practice. Installation of the rough electrical system in the Fresno City College construction program's project house at an off campus location. Construction 175AL must be taken concurrently with Construction 175A. (A)

Change: corequisite, advisory   *effective Spring 2019*
175AL **Residential Wiring Lab 1, 0.5 unit, 1.5 lab hours, (See also Electrical Systems Technology 175AL)**
        Corequisite: Construction 175A. **Advisory:** Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.

Change: corequisite, advisory, description   *effective Spring 2019*
175B **Residential Wiring 2, 4 units, 3 lecture hours, 3 lab hours, (See also Electrical Systems Technology 175B)**
        Corequisite: Construction 175BL. **Advisory:** Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.
        Electrical code. Hands on finish equipment installation, trouble shooting. Specialty circuits. Installation of the finish materials in the City College construction program's project house. Construction 175BL must be taken concurrently with Construction 175B. (A)

Change: corequisite, advisory   *effective Spring 2019*
175BL **Residential Wiring Lab 2, 0.5 unit, 1.5 lab hours, (See also Electrical Systems Technology 175BL)**
        Corequisite: Construction 175B. **Advisory:** Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.

Counseling (COUN)

Change: description   *effective Spring 2019*
53   **College and Life Management, 3 units, 3 lecture hours, (Formerly Guidance Studies 53)**
        Advisory: Eligibility for English 1A recommended.
        This course is designed to assist students in developing the necessary tools for future success by providing structures and activities that illustrate the relationship between interpersonal and intrapersonal interactions. Course topics

include development of student's personal strengths, interpersonal relationships, learning styles, personal values, healthy lifestyle choices, and success skills. (A, CSU, UC)

Electrical Systems Technology (EST)

Change: advisory, description   *effective Spring 2019*
175A –Residential Wiring 1, 4 units, 3 lecture hours, 3 lab hours, (See also Construction 175A)
     Corequisite: Electrical Systems Technology 175AL. **Advisory:** Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.
     Introduction to electrical code, installation methods. Electrical circuits hands on practice. Installation of the rough electrical system in the Fresno City College construction program's project house at an off campus location. Electrical Systems Technology 175AL must be taken concurrently with Electrical Systems Technology 175A. (A)

Change: advisory   *effective Spring 2019*
175AL –Residential Wiring Lab 1, 0.5 unit, 1.5 lab hours, (See also Construction 175AL)
     Corequisite: Electrical Systems Technology 175A. **Advisory:** Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.

Change: corequisite, advisory, description   *effective Spring 2019*
175B –Residential Wiring 2, 4 units, 3 lecture hours, 3 lab hours, (See also Construction 175B)
     Corequisite: Electrical Systems Technology 175BL. **Advisory:** Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.
     Electrical Code. Hands on finish equipment installation, trouble shooting. Specialty circuits. Installation of the finish materials in the City College construction program's project house. Electrical Systems Technology 175BL must be taken concurrently with Electrical Systems Technology 175B. (A)

Change: advisory   *effective Spring 2019*
175BL –Residential Wiring Lab 2, 0.5 unit, 1.5 lab hours, (See also Construction 175BL)
     Corequisite: Electrical Systems Technology 175B. **Advisory:** Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.

Engineering (ENGR)

Change: description   *effective Spring 2019*
1A   Elementary Plane Surveying 1, 4 units, 3 lecture hours, 3 lab hours
     Prerequisite: Mathematics 4A. **Advisory:** Eligibility for English 1A recommended.
     Principles and practice of plane surveying: office computations and design; operation of surveying field equipment; and production of engineering plans/maps. Topics include distances, angles, and directions; differential leveling; traversing; property/boundary surveys; topographic surveys/mapping; volume/earthwork; horizontal and vertical curves; land description techniques; and GPS. Extensive field work using tapes, levels, transits, theodolites and total stations. (A, CSU, UC)

Change: prerequisite, advisory, description   *effective Spring 2019*
2   Graphics, 4 units, 2 lecture hours, 6 lab hours, (Formerly Engineering 26)
     Prerequisite: Mathematics 4A. **Advisory:** Eligibility for English 1A recommended.
     Principles of engineering drawings in visually communicating engineering designs and an introduction to computer-aided design (CAD). Topics include the development of visualization and sketching skills, orthographic projections, mechanical dimensioning and tolerancing practices, 2D and 3D CAD skills and the engineering design process. The use of CAD software is an integral part of the course. (A, CSU, UC)

Change: description   *effective Spring 2019*
4   Engineering Materials, 3 units, 3 lecture hours, (Formerly Engineering 32)
     Prerequisite: Chemistry 1A and Physics 4A. **Advisory:** Eligibility for English 1A recommended.
     Introductory course on the properties of engineering materials and their relation to the internal structure of materials. Topics include atomic structure and bonding; crystalline structures; phases and phase diagram; metals; polymers; ceramics; composites; mechanical deformation and fracture; structural control and influence of properties; materials naming and designating systems; and electrical properties. (A, CSU, UC)

Change: hours, description   *effective Spring 2019*
10   Introduction to Engineering, 2 units, 1 lecture hour, 3 lab hours
     Advisory: Eligibility for English 1A recommended.
     This course explores the branches of engineering, the functions of an engineer, and the industries in which engineers work. Explains the engineering education pathways and explores effective strategies for students to reach their full academic potential. Presents an introduction to the methods and tools of engineering problem solving and design including experimentation, data analysis, computer and communication skills, and the interface of the engineer with society and engineering ethics. (A, CSU, UC)

English (ENGL)

Change: prerequisite   *effective Spring 2019*
1A   Reading and Composition, 4 units, 4 lecture hours
        Prerequisite: A "pass" grade in English 125 or English for Multi-Lingual Students 167W, and English 126 or English for Multi-Lingual Students 168R or English for Multi-Lingual Students 180RW or appropriate score on the reading and writing sections of the Placement Test. (C-ID ENGL 100) (A, CSU-GE, UC, I)

Fire Technology (FIRET)

New course   *effective Summer 2019*
160A Confined Space Rescue Technician, 1 unit, 0.56 lecture hour, 1.67 lab hours, (Pass/No Pass)
        Prerequisite: Fire Technology 130B. Successful completion of a California State Fire Marshal's Office Accredited Firefighter 1 Academy or equivalent as determined by the Division Dean, Director or their representative. Note: Approval of equivalency training approval is not a guarantee of state regulatory or licensing agencies will also grant equivalency.
        This course is an intensive hands-on training program that will prepare you to respond to confined space emergencies. This course of instruction prepare the student in identifying confined spaces and permit-required confined spaces, the hazards associated with permit required confined spaces, target industries and hazards, state and federal regulations, components of a rescue operation, and the roles and responsibilities of the rescue team. (A)

New course   *effective Summer 2019*
160B Rescue Systems 1, 0.5 unit, 0.22 lecture hour, 2.01 lab hours, (Pass/No Pass)
        Prerequisite: Fire Technology 130B. Successful completion of a California State Fire Marshal's Office Accredited Firefighter 1 Academy or equivalent as determined by the Division Dean, Director or their representative. Note: Approval of equivalency training approval is not a guarantee of state regulatory or licensing agencies will also grant equivalency.
        Key topics include: Team organization, rescue, and environmental considerations, use of ropes, knots rigging and pulley systems, descending, rappelling, and belaying tools and techniques, subsurface rescue techniques, use of cribbing, wedges, cutting/prying and hydraulic tools, use of fire service ladders in specialized rescue situations, and day and night simulated rescue exercises. (A)

New course   *effective Spring 2019*
223   Company Officer 2A: Human Resource Management for Company Officers, 2 units, 2.34 lecture hours
        Prerequisite: Completion of the Fire Fighter II course or equivalent.
        This course provides information on the use of human resources to accomplish assignments, evaluating member performance, supervising personnel, and integrating health and safety plans, policies, and procedures into daily activities as well as the emergency scene.

New course   *effective Spring 2019*
224   Company Officer 2B: General Administrative Functions for Company Officers, 1 unit, 1.12 lecture hours
        Prerequisite: Completion of the Fire Fighter II course or equivalent.
        This course provides information on general administrative functions and the implementation of department policies and procedures and addresses conveying the fire department's role, image, and mission to the public.

New course   *effective Spring 2019*
225   Company Officer 2C: Fire Inspections and Investigations for Company Officers, 2 units, 2.23 lecture hours
        Prerequisite: Completion of the Fire Fighter II course or equivalent.
        This course provides information on conducting inspections, identifying hazards and addressing violations, performing a fire investigation to determine preliminary cause and securing the incident scene and preserving evidence.

New course   *effective Spring 2019*
226   Company Officer 2D: All-Risk Command Operations for Company Officers, 2 units, 2.23 lecture hours
        Prerequisite: Completion of the Fire Fighter II course or equivalent.
        This course provides information on conducting incident size-up, developing and implementing an initial plan of action involving single and multiunit operations for various types of emergency incidents to mitigate the situation following agency safety procedures, conducting pre-incident planning, and develop and conduct a post-incident analysis.

New course   *effective Spring 2019*
227   Company Officer 2E: Wildland Incident Operations for Company Officers, 2 units, 2.23 lecture hours
        Prerequisite: Completion of the Fire Fighter II course or equivalent. All Risk Command Operations for Company Officers. S-290 Intermediate Fire Behavior (classroom delivery only).
        This course provides information on evaluating and reporting incident conditions, analyzing incident needs, developing and implementing a plan of action to deploy incident resources completing all operations to suppress a wildland fire, establishing an incident command post, creating an incident action plan, and completing incident records and reports.

New course   *effective Spring 2019*
230A Fire Apparatus Driver Operator 1A, 1 unit, 0.88 lecture hour, 1.35 lab hours, (Pass/No Pass)

Prerequisite: Fire Technology 130A. Successful completion of a California State Fire Marshal's Office Accredited Firefighter 1 Academy or equivalent as determined by the Division Dean, Director or their representative. Note: Approval of equivalency training approval is not a guarantee of state regulatory or licensing agencies will also grant equivalency.

This course provides information on fire apparatus preventive maintenance and driving/operating. Topics include routine tests, inspections, and servicing functions, operate, back, maneuver, and turn a fire apparatus in a variety of conditions; and operate all fixed systems and equipment on a fire apparatus. This course is based on the 2014 edition of NFPA 1002 Standard for Fire Apparatus Driver/Operator Professional Qualifications. This course fulfills the requirements for a Class C Firefighter Endorsement.

New course   *effective Spring 2019*
230B   Fire Apparatus Driver Operator 1B, 1 unit, 0.89 lecture hour, 1.34 lab hours, (Pass/No Pass)
Prerequisite: Fire Technology 130B. Successful completion of a California State Fire Marshal's Office Accredited Firefighter 1 Academy or equivalent as determined by the Division Dean, Director or their representative. Note: Approval of equivalency training approval is not a guarantee of state regulatory or licensing agencies will also grant equivalency.

This course provides information on pumping apparatus preventive maintenance and operations. Topics include routine tests, inspections, and servicing functions; producing hand, master, and foam fire streams, relay pump operations; and supplying water to fire sprinkler and standpipe systems. This course is based on the 2014 edition of NFPA 1002 Standard for Fire Apparatus Driver/Operator Professional Qualifications.

New course   *effective Spring 2019*
230C   Fire Apparatus Driver/Operator – Aerial Apparatus, 1.5 unit, 1.13 lecture hours, 1.1 lab hours, (Pass/No Pass)
Prerequisite: Fire Technology 130B. Successful completion of a California State Fire Marshal's Office Accredited Firefighter 1 Academy or equivalent as determined by the Division Dean, Director or their representative. Note: Approval of equivalency training approval is not a guarantee of state regulatory or licensing agencies will also grant equivalency.

This course provides information on aerial apparatus preventive maintenance and operations. Topics include routine tests, inspections, and servicing functions on the systems and components unique to an aerial apparatus; maneuvering, positioning, and stabilizing an aerial apparatus; maneuvering, positioning, and lowering the aerial device; and deploying and operating an elevated master stream. This course is based on the 2014 edition of NFPA 1002 Standard for Fire Apparatus Driver/Operator Professional Qualifications.

New course   *effective Spring 2019*
230D   Fire Apparatus Driver/Operator – Water Tender, 0.5 unit, 0.36 lecture hour, 1.42 lab hours, (Pass/No Pass)
Prerequisite: Fire Technology 130B. Successful completion of a California State Fire Marshal's Office Accredited Firefighter 1 Academy or equivalent as determined by the Division Dean, Director or their representative. Note: Approval of equivalency training approval is not a guarantee of state regulatory or licensing agencies will also grant equivalency.

This course provides information on water tender preventive maintenance and operations. Topics include routine tests, inspections, and servicing functions unique to a water tender; maneuvering and positioning a water tender at a water shuttle fill site; and establishing, maneuvering, and positioning at a water shuttle dumpsite. This course is based on the 2014 edition of NFPA 1002 Standard for Fire Apparatus Driver/Operator Professional Qualifications.

New course   *effective Spring 2019*
230E   Fire Apparatus Driver/Operator – Wildland Fire Apparatus, 0.5 unit, 0.25 lecture hour, 1.09 lab hours, (Pass/No Pass)
Prerequisite: Fire Technology 130B. Successful completion of a California State Fire Marshal's Office Accredited Firefighter 1 Academy or equivalent as determined by the Division Dean, Director or their representative. Note: Approval of equivalency training approval is not a guarantee of state regulatory or licensing agencies will also grant equivalency.

This course provides information on preventive maintenance and operation of a wildland fire apparatus. Topics include routine tests, inspections, and servicing functions on the systems and components unique to wildland fire apparatus, and operating a wildland fire apparatus and producing an effective fire stream. This course is based on the 2014 edition of NFPA 1002 Standard for Fire Apparatus Driver/Operator Professional Qualifications.

New course   *effective Spring 2019*
240A   Fire Inspector 1A, 1 unit, 0.93 lecture hour, 0.41 lab hour, (Pass/No Pass)
Prerequisite: Successful completion of a California State Fire Marshal's Office Accredited Firefighter 1 Academy or equivalent as determined by the Division Dean, Director or their representative. Note: Approval of equivalency training approval is not a guarantee of state regulatory or licensing agencies will also grant equivalency.

This course provides students with a basic knowledge of the roles and responsibilities of a Fire Inspector I including legal responsibilities and authority, codes and standards, the inspection process, confidentiality and privacy requirements, and ethical conduct, and administrative tasks including preparing inspection reports, recognizing the need for a permit or plan review, investigating common complaints, and participating in legal proceedings.

New course   *effective Spring 2019*
240B   Fire Inspector 1B, 1 unit, 1.2 lecture hours, 0.41 lab hour, (Pass/No Pass)
Prerequisite: Successful completion of a California State Fire Marshal's Office Accredited Firefighter 1 Academy or equivalent as determined by the Division Dean, Director or their representative. Note: Approval of equivalency training approval is not a guarantee of state regulatory or licensing agencies will also grant equivalency.

This course provides students with a basic knowledge of fire and life safety aspects related to the roles and responsibilities of a Fire Inspector I including building construction, occupancy classifications, occupancy load, means of egress, hazardous conditions, fire growth potential, fire flow, and emergency planning and preparedness measures.

New course   *effective Spring 2019*
240C   Fire Inspector 1C, 1 unit, 1.34 lecture hours, (Pass/No Pass)
   Prerequisite: Successful completion of a California State Fire Marshal's Office Accredited Firefighter 1 Academy or equivalent as determined by the Division Dean, Director or their representative. Note: Approval of equivalency training approval is not a guarantee of state regulatory or licensing agencies will also grant equivalency.
   This course provides students with a basic knowledge of field inspection roles and responsibilities of a Fire Inspector I including basic plan review, emergency access for an existing system, hazardous materials, and the operational readiness of fixed fire suppression systems, existing fire detection and alarm systems, and portable fire extinguishers.

New course   *effective Spring 2019*
240D   Fire Inspector 1D, 0.5 unit, 0.89 lecture hour, (Pass/No Pass)
   Prerequisite: Successful completion of a California State Fire Marshal's Office Accredited Firefighter 1 Academy or equivalent as determined by the Division Dean, Director or their representative. Note: Approval of equivalency training approval is not a guarantee of state regulatory or licensing agencies will also grant equivalency.
   This course provides students with a basic knowledge of a Fire Inspector's field inspection roles and responsibilities specific to California including tents, canopies, and temporary membrane structures; fireworks and explosives; and wildland urban interface environments.

New course   *effective Summer 2019*
260A   Chief Fire Officer 3A, 1 unit, 0.85 lecture hour, 0.6 lab hour, (Pass/No Pass)
   Prerequisite: Fire Technology 130B, Fire Technology 223, Fire Technology 224, Fire Technology 225, Fire Technology 226, and Fire Technology 227. Successful completion of a California State Fire Marshal's Office Accredited Firefighter 1 Academy or equivalent as determined by the Division Dean, Director or their representative. Note: Approval of equivalency training approval is not a guarantee of state regulatory or licensing agencies will also grant equivalency.
   This course provides students with a basic knowledge of the human resources requirements related to the roles and responsibilities of a Chief Fire Officer including developing plans for providing employee accommodation, developing hiring procedures, establishing personnel assignments, describing methods of facilitating and encouraging professional development, developing an ongoing education training program, developing promotion procedures, developing proposals for improving employee benefits, and developing a measurable accident and injury prevention program.

New course   *effective Summer 2019*
260B   Chief Fire Officer 3B, 0.5 unit, 0.5 lecture hour, 0.5 lab hour, (Pass/No Pass)
   Prerequisite: Fire Technology 130B, Fire Technology 223, Fire Technology 224, Fire Technology 225, Fire Technology 226, and Fire Technology 227. Successful completion of a California State Fire Marshal's Office Accredited Firefighter 1 Academy or equivalent as determined by the Division Dean, Director or their representative. Note: Approval of equivalency training approval is not a guarantee of state regulatory or licensing agencies will also grant equivalency.
   This course provides students with a basic knowledge of the budgeting requirements related to the roles and responsibilities of a Chief Fire Officer including developing a budget management system, developing a division or departmental budget, and describing the process for ensuring competitive bidding.

New course   *effective Summer 2019*
260C   Chief Fire Officer 3C, 1 unit, 0.84 lecture hour, 0.5 lab hour, (Pass/No Pass)
   Prerequisite: Fire Technology 130B, Fire Technology 223, Fire Technology 224, Fire Technology 225, Fire Technology 226, and Fire Technology 227. Successful completion of a California State Fire Marshal's Office Accredited Firefighter 1 Academy or equivalent as determined by the Division Dean, Director or their representative. Note: Approval of equivalency training approval is not a guarantee of state regulatory or licensing agencies will also grant equivalency.
   This course provides students with a basic knowledge of the administration requirements related to the roles and responsibilities of a Chief Fire Officer including directing a department record management system, analyzing and interpreting records and data, developing a model plan for continuous organizational improvement, developing a plan to facilitate approval, preparing community awareness programs, and evaluating the inspection program of the AHJ.

New course   *effective Summer 2019*
260D   Chief Fire Officer 3D, 0.5 unit, 0.82 lecture hour, 0.52 lab hour, (Pass/No Pass)
   Prerequisite: Fire Technology 130B. Successful completion of a California State Fire Marshal's Office Accredited Firefighter 1 Academy or equivalent as determined by the Division Dean, Director or their representative. Note: Approval of equivalency training approval is not a guarantee of state regulatory or licensing agencies will also grant equivalency.
   This course provides students with a basic knowledge of the emergency service requirements related to the roles and responsibilities of a Chief Fire Officer including developing a plan for the integration of fire services resources, developing an agency resource contingency plan, evaluating incident facilities, supervising multiple resources, developing and utilizing an incident action plan, obtaining incident information to facilitate transfer of command, developing and conducting a post-incident analysis, and maintaining incident records.

Change: units, hours, weeks, pass/no pass   *effective Spring 2019*
265   I-300, Intermediate ICS, 1 unit, 1.34 lecture hours, (Pass/No Pass)

Geography (GEOG)

Change: course title, description   *effective Spring 2019*
30   Regional Field Studies, 1-6 units, 1-3 lecture hours, 9 lab hours
    Advisory: Eligibility for English 1A recommended.
    Field study of the geography of selected regions, covering geographical topics. Physical and cultural processes, characteristics and landscapes will be observed and analyzed. Content will vary by region and may include current geographical trends and/or issues in the subdisciplines of Geography, such as environmental issues, biogeography, geomorphology, economic geography, etc. (A, CSU, UC approved as a variable topic; evaluation completed by individual campuses after admission.)

Graphic Communications (GRC)

Change: title   *effective Spring 2019*
15   Web Page Design, 4 units, 3 lecture hours, 3 lab hours

Change: course number, title   *effective Spring 2019*
20A   Intro to Applied Graphics – Adobe Tools, 3 units, 2 lecture hours, 3 lab hours, (Formerly Graphic Communications 20 and Print Technology 20)

Change: course number, title   *effective Spring 2019*
20B   Intro to Applied Graphics - Media, 3 units, 2 lecture hours, 3 lab hours, (Formerly Graphic Communications 18)

Change: units, hours   *effective Spring 2019*
22   Digital Media, 3 units, 2 lecture hours, 3 lab hours

Change: title, units, hours, prerequisite, advisory , description   *effective Spring 2019*
23   Video Editing – Adobe Premiere Pro, 3 units, 2 lecture hours, 3 lab hours
    Advisory: Graphic Communications 20B, 27, 32, 320B, 327, or 332. Eligibility for English 1A recommended.
    Digital video editing techniques using Adobe Premiere Pro. Fulfills computer literacy graduation requirement. (A, CSU)

Change: course number   *effective Spring 2019*
24A   Intro 2-D Animation with Adobe Animate, 3 units, 2 lecture hours, 3 lab hours, (Formerly Graphic Communications 24)

New course   *effective Spring 2019*
24B   Intro 2-D Animation – Harmony Software, 3 units, 2 lecture hours, 3 lab hours
    Advisory: Eligibility for English 1A recommended.
    Use Toon Boom Harmony to author two-dimensional animation. Design and production of interactive media projects. Fulfills computer literacy graduation requirement. (A, CSU)

Change: units, hours   *effective Spring 2019*
27   Digital Video Production, 3 units, 2 lecture hours, 3 lab hours

Change: units, hours   *effective Spring 2019*
32   Video Techniques, 3 units, 2 lecture hours, 3 lab hours

New course   *effective Spring 2019*
314   Adobe Acrobat Professional, 2 lecture hours, 3 lab hours, (Repeats = 99), (Pass/No Pass), (Open Entry/Open Exit)
    Advisory: Eligibility for English 1A recommended.
    Adobe Acrobat software and others used for the generation of digital documents for the world wide web, cloud storage, paperless business, distribute and print workflows, or inclusion in media productions.

New course   *effective Spring 2019*
315   Web Page Design, 3 lecture hours, 3 lab hours, (Repeats = 99), (Pass/No Pass), (Open Entry/Open Exit)
    Advisory: Eligibility for English 1A recommended.
    Adobe Brackets or comparable HTML editor, CSS, and components of Adobe Design Suite with emphasis on graphic design principles and digital photography included in exercises and project work. Skill development in recognition of artwork appropriate for web site design. Students capture images, design, create, and post working web sites using Adobe Creative Cloud.

316 Web Design Techniques, 3 lecture hours, 3 lab hours, (Repeats = 99), (Pass/No Pass), (Open Entry/Open Exit)
    Advisory: Eligibility for English 1A recommended.
    Techniques, tips, tricks and software products to help the web designer. Opportunities to work with new technologies and methods of deploying content over the Internet.

317 Adobe Illustrator, 2 lecture hours, 3 lab hours, (Repeats = 99), (Pass/No Pass), (Open Entry/Open Exit)
    Advisory: Eligibility for English 1A recommended.
    Use Adobe Illustrator to design and create vector images that solve a variety of graphic problems. Hands-on work creating projects for reproduction.

320A Intro to Applied Graphics – Adobe Tools, 2 lecture hours, 3 lab hours, (Repeats = 99), (Pass/No Pass), (Open Entry/Open Exit)
    Advisory: Eligibility for English 1A recommended.
    Overview of graphic communication processes as related to the graphics industry. Terminology, input/output considerations, current trends, and hands-on projects using Adobe Photoshop, Adobe Illustrator, and Adobe InDesign for production operations.

320B Intro to Applied Graphics - Media, 2 lecture hours, 3 lab hours, (Repeats = 99), (Pass/No Pass), (Open Entry/Open Exit)
    Advisory: Eligibility for English 1A recommended.
    Introductory production methods of graphic communication systems incorporating print media, web design, and video production. Project work explores considerations and limitations of software for output. Units include professional development for the workplace.

322 Digital Media, 2 lecture hours, 3 lab hours, (Repeats = 99), (Pass/No Pass), (Open Entry/Open Exit)
    Advisory: Eligibility for English 1A recommended.
    Introduction to digital media. Project work using an assortment of current software. Combine images, audio and video into cross-platform productions. Digital slide shows, image capture, and short video.

323 Video Editing – Adobe Premiere Pro, 2 lecture hours, 3 lab hours, (Repeats = 99), (Pass/No Pass), (Open Entry/Open Exit)
    Advisory: Graphic Communications 20B, 27, 32, 320B, 327, or 332. Eligibility for English 1A recommended.
    Digital video editing techniques using Adobe Premiere Pro.

324A Intro to 2-D Animation with Adobe Animate, 2 lecture hours, 3 lab hours, (Repeats = 99), (Pass/No Pass), (Open Entry/Open Exit)
    Advisory: Eligibility for English 1A recommended.
    Use Adobe Animate to author two-dimensional animation. Design and production of interactive media projects.

324B Intro to 2-D Animation – Harmony Software, 2 lecture hours, 3 lab hours, (Repeats = 99), (Pass/No Pass), (Open Entry/Open Exit)
    Advisory: Eligibility for English 1A recommended.
    Use Toon Boom Harmony to author two-dimensional animation. Design and production of interactive media projects.

325 CMS Web Design, 2 lecture hours, 3 lab hours, (Repeats = 99), (Pass/No Pass), (Open Entry/Open Exit)
    Advisory: Eligibility for English 1A recommended.
    Design, configuration, and implementation of scalable web sites using a content management system.

327 Digital Video Production, 2 lecture hours, 3 lab hours, (Repeats = 99), (Pass/No Pass), (Open Entry/Open Exit)
    Advisory: Eligibility for English 1A recommended.
    Introduction to digital video production with emphasis on editing techniques. Units include planning, storytelling, vocabulary, camera handling, lighting, sound, and working with professional editing software. Students complete short exercises and create video projects.

330 Adobe InDesign/Professional Publishing, 2 lecture hours, 3 lab hours, (Repeats = 99), (Pass/No Pass), (Open Entry/Open Exit)
    Advisory: Eligibility for English 1A recommended.

Adobe InDesign page layout software. Emphasis on production for print, e-book, and emerging technologies. Components from Adobe Photoshop and Adobe Illustrator programs.

New course   ***effective Spring 2019***
331   Intermediate Photoshop, 2 lecture hours, 3 lab hours, (Repeats = 99), (Pass/No Pass), (Open Entry/Open Exit)
    Advisory: Eligibility for English 1A recommended.
    Adobe Photoshop with emphasis on graphic design and production. Units include production for print, web, and digital media applications.

New course   ***effective Spring 2019***
332   Video Techniques, 2 lecture hours, 3 lab hours, (Repeats = 99), (Pass/No Pass), (Open Entry/Open Exit)
    Advisory: Eligibility for English 1A recommended.
    Production processes and post-production processes with a focus on technical aspects. Lighting, audio, camera work, and color correction.

New course   ***effective Spring 2019***
334   Introduction to 3-D Animation, 2 lecture hours, 3 lab hours, (Repeats = 99), (Pass/No Pass), (Open Entry/Open Exit)
    Advisory: Eligibility for English 1A recommended.
    Introduction to 3-D animation using Blender software. Projects dealing with workflow, interface, layouts, objects, lighting, animation, and rendering.

New course   ***effective Spring 2019***
339A   Introduction to Graphic Design, 2 lecture hours, 3 lab hours, (Repeats = 99), (Pass/No Pass), (Open Entry/Open Exit)
    Advisory: Eligibility for English 1A recommended.
    Principles and methods of graphic communication. Projects incorporate symbols and typography into visual design, exploring interrelationships between formal elements and symbolic content.

New course   ***effective Spring 2019***
340A   Intermediate Graphic Design, 2 lecture hours, 3 lab hours, (Repeats = 99), (Pass/No Pass), (Open Entry/Open Exit)
    Advisory: Eligibility for English 1A recommended.
    Advanced principles and methods of graphic communication. Projects incorporate symbols and typography into visual design, exploring interrelationships between the formal elements and symbolic content.

New course   ***effective Spring 2019***
341   Visual Communications, 2 lecture hours, 3 lab hours, (Repeats = 99), (Pass/No Pass), (Open Entry/Open Exit)
    Advisory: Eligibility for English 1A recommended.
    Survey of the significant techniques and examples of visual communication as employed by the mass media, including newspapers, magazines, television, and advertising. Discussion and demonstration of the tools used in analyzing visual communication. Creation and analysis of images for print, web, and video.

New course   ***effective Spring 2019***
347   Introduction to Four Dimensional Design, 3 lecture hours, (Repeats = 99), (Pass/No Pass), (Open Entry/Open Exit)
    Advisory: Eligibility for English 1A recommended.
    Fundamental principles and foundational competencies for digital artists and designers.

New course   ***effective Spring 2019***
351   Storyboarding, 2 lecture hours, (Repeats = 99), (Pass/No Pass), (Open Entry/Open Exit)
    Advisory: Eligibility for English 1A recommended.
    Pre-visualization for animation, video, web, and game production. Introduction to media-specific storyboarding processes and techniques.

New course   ***effective Spring 2019***
352   Adobe Lightroom, 2 lecture hours, 3 lab hours, (Repeats = 99), (Pass/No Pass), (Open Entry/Open Exit)
    Advisory: Eligibility for English 1A recommended.
    Production digital image management and adjustment with Adobe Lightroom.

New course   ***effective Spring 2019***
353   Adobe After Effects, 2 lecture hours, 3 lab hours, (Repeats = 99), (Pass/No Pass), (Open Entry/Open Exit)
    Advisory: Eligibility for English 1A recommended.
    Introduction to motion graphics and video post-processing using Adobe After Effects. Projects incorporate a series of techniques used to create video special effects.

Learning Assistance (LA)

Change: advisory, description   *effective Spring 2019*
2A   Tutor Training: Level I, 1 unit, 2 lecture hours, 2 lab hours, (9 weeks)
       Advisory: Eligibility for English 1A recommended.
       Introductory course for writing and reading tutors. Designed to develop peer-tutoring skills for one-on-one sessions with tutees from varying educational backgrounds. Overview of tutorial theory and effective practices. Discussion of meta-cognitive activities for tutoring reading and writing. This course is open for writing tutors working in a tutorial environment. (A, CSU)

Change: description   *effective Spring 2019*
2B   Tutor Training: Level II, 1 unit, 2 lecture hours, 2 lab hours, (9 weeks)
       Prerequisite: Learning Assistance 2A.
       This course provides instruction and guided practice in group tutoring dynamics and social and emotional intelligence with an emphasis on developmental reading and writing and English for Multilingual Students (EMLS). (A, CSU)

Course deleted   *effective Spring 2019*
277A   Essential Skills Workshop Series, 0.5 unit, 0.5 lecture hour, (Pass/No Pass), (Open Entry/Open Exit)

Manufacturing Mechanic CTC (MFGMCTC)

Change: hours   *effective Spring 2019*
352C   Job Preparation, 1 lecture hour, (Pass/No Pass)

Change: hours   *effective Spring 2019*
352D   Technical Report Writing, 1 lecture hour, (Pass/No Pass)

Music (MUS)

Change: description   *effective Spring 2019*
341   Senior Jazz Performance Ensemble, 4 lab hours, (Repeats = 99)
       Prerequisite: Students must meet the minimum age requirement.
       Builds skills in jazz ensemble performance. Study of technical, stylistic and aesthetic elements of repertoire from all eras and styles of jazz ensemble literature. 3-4 performances per semester required. Auditions (for ensemble balance and placement within section) advised.

New course   *effective Spring 2019*
348   Senior Latin Jazz Skills, 1 lecture hour, 3 lab hours, (Repeats = 99)
       Advisory: Eligibility for English 1A recommended.
       Study and performance of Latin jazz and Afro-Cuban music. Students will develop an awareness and appreciation of the music of Latin America and Cuba through artistic and cultural creation. Participation in concerts and jazz festivals required.

Photography (PHOTO)

Course deleted   *effective Spring 2019*
27   Alternative Photographic Processes, 3 units, 2 lecture hours, 3 lab hours, (Formerly Photography 30, 33, and 40)

Course deleted   *effective Spring 2019*
37   Editorial Portraiture, 3 units, 2 lecture hours, 3 lab hours

New course   *effective Spring 2019*
323   Advanced Photoshop, 2 lecture hours, 3 lab hours, (Repeats = 4), (Pass/No Pass), (Open Entry/Open Exit)
       Prerequisite: Photography 12 or Graphic Communications 31 or equivalent.
       Advanced techniques for computer enhanced still photograph image capture, processing, and output technologies. Use of Adobe Photoshop as primary software to complete real world assignments and produce a portfolio of digital photography.

Psychology (PSY)

Change: prerequisite   *effective Spring 2019*
45   Introduction to Research Methods in Psychology, 3 units, 3 lecture hours
        Prerequisite: Psychology 2 or 2H and Psychology 42 or Mathematics 42 or Mathematics 11. **Advisory:** English 1A or English 1AH.

Theatre Arts (TA)

Change: description   *effective Spring 2019*
27B   Introduction to Lighting Design, 3 units, 3 lecture hours, 1 lab hour
        Advisory: Eligibility for English 1A and Mathematics 201 recommended.
        Study and execution of lighting for the theatre. Equipment control, lighting plots, color theory, photo-metrics and cueing are emphasized. (A, CSU, UC)

Change: description   *effective Spring 2019*
31   Theatre History and Dramatic Literature I, 3 units, 3 lecture hours
        Advisory: Eligibility for English 1A recommended.
        Survey of the Theatre history and dramatic literature of Western culture from Ancient Greeks through 18th Century. The history and development of theatre and drama are studied in relationship to cultural, political and social conditions of the time. (C-ID THTR 113) (A, CSU-GE, UC, I)

Change: description   *effective Spring 2019*
32   Theatre History and Dramatic Literature II, 3 units, 3 lecture hours
        Advisory: Eligibility for English 1A recommended.
        Survey of the theatre history and dramatic literature of Western culture from 19th century to the present. (A, CSU-GE, UC, I)

Change: description   *effective Spring 2019*
38   Script Analysis, 3 units, 3 lecture hours
        Advisory: English 1A recommended.
        Principles, theories and techniques of play script analysis for theatrical production. Fully explore an in-depth methodology of reading, analyzing and understanding play scripts in a variety of genres and styles intended for production. Investigate techniques used to determine how to read a play for its' structure, scrutinizing the playwright's methods of creating theatre through plot, character and imagery, and understanding what scripts "mean" to the professional theatre artist and theatre-goer as distinct from other forms of literature. (C-ID THTR 114) (A, CSU, UC)

Change: prerequisite   *effective Spring 2019*
44A   Actors Workshop, 3 units, 2 lecture hours, 3 lab hours
        Prerequisite: Theatre Arts 41 or 42 or equivalent. **Advisory:** Eligibility for English 1A recommended. Theater Arts 43 recommended.

Change: prerequisite, description   *effective Spring 2019*
44B   Actors Workshop 2, 3 units, 2 lecture hours, 3 lab hours
        Prerequisite: Theatre Arts 44A. **Advisory:** Eligibility for English 1A recommended.
        Skill development for actors with advanced acting experience. Explores elements of performance styles, scene work of classical and contemporary materials and auditioning techniques. Memorization skills required. (A, CSU, UC)

New course   *effective Spring 2019*
49   Introduction to Theatre Design, 3 units, 3 lecture hours
        Advisory: Eligibility for English 1A recommended.
        A survey of scenery, sound, costumes, makeup, properties, theatrical equipment and construction techniques through demonstration, and laboratory experience. Information is application to all formal theatrical applications. (A, CSU)

New course   *effective Spring 2019*
200   Movement for the Production The Little Prince, 2 units, 1 lecture hour, 3 lab hours
        Corequisite: Theatre Arts 40.
        Prepare students for character movement and/or dance for production.

Change: description   *effective Spring 2019*
346   Senior Musical Performance Skills, 3 lab hours
        Prerequisite: Students must meet the minimum age requirements to audition for "New Wrinkles."
        Skill-building in musical theatre such as chorus, small ensemble, and/or solo singing. Intended to help students considering auditioning and performing in the annual "New Wrinkles" production at Fresno City College.

347   Senior Dance and Theatre Skills, 3 lab hours
    Prerequisite: Students must meet the minimum age requirements to audition for "New Wrinkles."
    Skill-building in musical theatre such as dancing and/or acting. Intended to help students considering auditioning and performing in the annual "New Wrinkles" production at Fresno City College.