# Fresno City College

# 2019-2020 Catalog Addendum

# December 2019

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# **CERTIFICATE AND DEGREE REQUIREMENTS**

Changes to Pages 35-39

# Requirements for AA and AS Degrees

Change: a	add
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ART 40	Area C: Humanities	effective Fall 2019
ART 70	Area C: Humanities	effective Fall 2019
ENGR 5	Computer Familiarity	effective Fall 2019
PHIL 3A	Area C: Humanities	effective Fall 2019
PHIL 3B	Area C: Humanities	effective Fall 2019

# TRANSFER INFORMATION AND REQUIREMENTS

Changes to Pages 40-57

# Course Identification Numbering Systems (C-ID) C-ID Number Fresno City College Course

C-ID Nulliber	Fresho City College Course
Change: add	
CHEM 101	CHEM 3A, Introductory General Chemistry
CHEM 110	CHEM 1A, General Chemistry
ENGR 180	ENGR 1A, Elementary Plane Surveying 1
HIT 100X	HIT 1, Introduction to Health Information Management
HIT 102X	HIT 2, Legal Aspects of Health and Information
HIT 103X	HIT 10, Medical Terminology
HIT 104X	HIT 12, Health Information in Alternative Settings
HIT 105X	HIT 4, Disease Process
HIT 206X	HIT 9, Hospital and Health Statistics
HIT 208X	HIT 14, HIM Technology and Systems
HIT 210X	HIT 8, Health Information Management and Supervision
LPPS 110	AMST 11, Law and Democracy
MUS 120	MUS 1AP, Music Theory I-Plus
PHIL 130	PHIL 3A, Ancient Philosophy
PHS 100	HLTH 1, Contemporary Health Issues

# **California State University General Education – Breadth (CSU-GE)**

Change: add
Anthropology 12 effective Fall 2019

# **University of California Transfer Course List (UC)**

Change: add	
Art 27	effective Fall 2019
Art 36A	effective Fall 2019
Art 38A	effective Fall 2019
Art 40	effective Fall 2019
Art 70	effective Fall 2019
Communication 8H	effective Fall 2019
Counseling 54	effective Fall 2019
Dance 8	effective Fall 2019
Decision Science 44	effective Fall 2019
Honors 1D	effective Fall 2019
Honors 1E	effective Fall 2019
Mathematics 3A	effective Fall 2019
Music 1AP	effective Fall 2019
Philosophy 3A	effective Fall 2019
Philosophy 3B	effective Fall 2019
Photography 49	effective Fall 2019
Political Science 6	effective Fall 2019

# **California State University Transfer Course List (CSU)**

Change: new

Business & Technology 31	effective Spring 2020
Criminology 28	effective Spring 2020
Dance 28A	effective Spring 2020
Decision Science 44	effective Spring 2020
Fire Technology 22A	effective Spring 2020
Fire Technology 22B	effective Spring 2020
Graphic Communications 55	effective Spring 2020
Physical Education 46B	effective Spring 2020

Political Science 6 Radiation Technology 6 Welding 5A Welding 5B Welding 6A Welding 6B Welding 6C Welding 83A	effective Spring 2020
Change: deleted Aerospace Studies 5 Business & Technology 13 Business & Technology 32 Dance 28 Geology 7 Geology 8 Heating, Ventilation, and Air Conditioning 56 Heating, Ventilation, and Air Conditioning 57 Physical Science 42	effective Spring 2020

# **SPECIAL AREAS OF STUDY**

Changes to Pages 78-84

# **Veterans Services**

Veterans Services, located in Building A, provides assistance to veterans and their dependents. Open from 8 a.m. to 5 p.m. Monday through Friday, the staff will assist veterans and dependents in applying for educational benefits. Counseling and academic advising are available in the Counseling Center.

## Educational Benefits for Veterans and Dependents

The following students may be eligible for veterans' educational benefits:

- 1. Veterans who were separated from active duty with the armed forces within the past 10 years.
- 2. Spouses or children (under 26 years of age) of veterans who were either killed while serving in the armed forces or were totally and permanently disabled while on active duty.
- 3. Widows or children of veterans who were residents of California at the time of entering the service and have a 50 percent disability may qualify for Cal Vet benefits.
- 4. Persons in one of the armed forces reserve programs who meet the minimum requirements of a special benefit program may be entitled to receive some educational and/or financial assistance.
- 5. Post 9-11 benefits will pay eligible individuals:
  - Tuition and fees directly to the school, not to exceed the maximum in-state tuition and fees at a public Institution of Higher Learning.
  - •A monthly housing allowance based on the Basic Allowance for Housing for an E-5 with dependents at the location of the school.
  - •An annual books and supplies stipend of \$1,000 paid proportionately based on enrollment.

Veterans are required to go on-line to learn more about this program in order to make an informed choice. Further information may be obtained from Veterans Services, Building A, or from any Veterans Administration office.

# Progress and Attendance Policies

Veterans and eligible dependents are required to show satisfactory progress. Minimum standards, established by the college, require that all students comply with satisfactory progress policies.

The Veterans Administration will be notified of any veteran who has been dismissed for not making satisfactory progress. For further information, contact Veterans Services, Building A.

A veteran is entitled to receive pay up to the last day of attendance for a class for which a "W" entry grade has been assigned. The VA will require that the money be paid back for such classes if paid after the last day of attendance.

A veteran must state a declared major for the VA in order to maintain eligibility for veterans' benefits.

Veterans who have completed 45 units at Fresno City College and/or elsewhere must obtain a degree evaluation from the Admissions and Records Office. Applications for degree evaluations are to be completed online through WebAdvisor or in the Admissions and Records Office.

Veterans and eligible dependents have the responsibility to notify the Veterans Office whenever a change in program, address or dependents is made. All veterans/dependents are urged to contact the Veterans Office regularly in order to be aware of the various changes in VA rules and regulations which may occur during the school year.

# Academic Limitations

Veterans/dependents attending Fresno City College who have earned a degree and/or have attempted sixty (60) or more units can only be certified for those courses which are either required to complete their degree objective at Fresno City College or meet a prerequisite for that requirement. Except in those cases where vocational work experience is required for the degree being pursued by the veteran, veterans with 60 or more units may not be certified for it. Veterans enrolled in occupational work experience must be engaged in work which is directly related to the veteran's major as declared with the VA. General work experience is not payable under any circumstances. Apprenticeship courses are payable under certain conditions. Also, veterans must enroll in and complete at least six units during the regular semester or two units during the summer session in order to be eligible for VA educational payments. Finally, a veteran may be certified to repeat a class for which a grade of "D" or better has been assigned only if the better grade is required as a prerequisite for the approved program.

# Pending VA Payment Compliance

In accordance with Title 38 US Code 3679 (e) Fresno City College adopts the following additional provisions for any students using U.S. Department of Veterans Affairs (VA) Post-9/11 G.I.Bill® or Vocational Rehabilitation & Employment (Ch. 31) benefits, while payment to the institution is pending from VA. Fresno City College will not:

- 1. Prevent the student's enrollment;
- 2. Assess a late penalty fee to the student;

- 3. Require the student to secure alternative or additional funding;
- 4. Deny the student access to any resources (access to classes, libraries, or other institutional facilities) available to other students who have satisfied their tuition and fee bills to the institution.

However, to qualify for this provision, such students may be required to:

- 1. Produce the VA Certificate of Eligibility (COE);
- 2. Submit completed certification request packet;
- 3. Provide additional information needed to properly certify the enrollment as determined by School Certifying Official.

# Veteran Exceptions to Out-of-State Tuition

If you are an active duty member of the United States Military stationed in California, or are their dependent and can show the required documentation, you may qualify for a tuition exemption even if you do not otherwise qualify for California Resident status.

## OR

AB13 and VACA Act: You may qualify for a tuition exemption from non-resident fees even if you do not otherwise qualify for California Resident status if:

- 1. You are a discharged member of the United States Military eligible for benefits under the Montgomery GI Bill or Post-9/11 GI Bill;
  - a. Or their spouse or child;
  - b. Or the spouse or child of a deceased member of the United States Military using benefits under the Marine Gunnery Sergeant John David Fry Scholarship;
- 2. And the service member's last active duty period lasted 90 days or longer;
- 3. And it is within three years of the service member's last day of active duty;
- 4. And you live in California.

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government Web site at https://www.benefits.va.gov/gibill

# ASSOCIATE DEGREE AND CERTIFICATE PROGRAMS

Changes to Pages 111-246

# **ART**

#### # ART - MAJOR #5205

program correction, Fall 2019

The art degree signifies the completion of a comprehensive course of study in the visual arts. It provides a platform from which to build a career in the visual arts and further advancement towards a baccalaureate degree. An Associate in Arts in Art is a great way to develop critical and creative problem solving skills, enhance an ability to analyze complex visual information, and improve communication skills.

Units

#### **Associate in Arts**

# **Student Learning Outcomes:**

**Required Core Courses** 

- 1. Apply knowledge of art fundamentals in order to identify, formulate and resolve basic art and design problems.
- 2. Understand and use a variety of media and processes to accomplish artistic goals.
- 3. Demonstrate an ability to critique and analyze artwork visually, orally and in writing.
- 4. Understand the impact of art making in a global and societal context.

ART 3	Two-Dimensional Design	3
ART 4	Three-Dimensional Design	
ART 5/5H	Art History Ancient to Medieval, <i>or</i>	
	Honors Art History Ancient to Medieval	3
ART 6/6H	Art History Renaissance to Modern, or	
	Honors Art History Renaissance to Modern	3
ART 7	Beginning Drawing, or	
ART 8	Beginning Figure Drawing and Anatomy	3
	ım of 12 Units (May take ART 7 or 8 if not	
taken in the cor		Units
ART 7	Beginning Drawing	3
ART 8	Beginning Figure Drawing and Anatomy	3
ART 9	Beginning Painting: Oil/Acrylic	
ART 10	Beginning Ceramics	3
ART 11	Beginning Sculpture	3
ART 12A	Craft Workshop: Living Traditions	3
ART 12B	Intermediate Craft Workshop: Living Traditions	3
ART 13	Beginning Watercolor Painting	3
ART 14	Beginning Printmaking	3
ART 15	Ceramic Sculpture	3
ART 16	Life Painting	3
ART 17	Intermediate Drawing	3
ART 18	Intermediate Figure Drawing and Anatomy	3
ART 19	Intermediate Painting: Oil/Acrylic	3
ART 20	Intermediate Ceramics	3
ART 21	Intermediate Sculpture	3
ART 22B	Craft Workshop: Concepts in Fibers	3
ART 23	Intermediate Watercolor Painting	3
ART 24A	Intaglio Printmaking	3
ART 24B	Lithograph Printmaking	3
ART 24C	Relief Printmaking	3
ART 24D	Screenprinting	
ART 25	Mural Painting	
ART 25A	Intermediate Mural Painting	
ART 28	Advanced Figure Drawing and Anatomy	3
ART 29	Advanced Painting: Oil/Acrylic	
ART 31	Advanced Sculpture	
ART 32A	Beginning Jewelry and Metalsmithing	
ART 32B	Intermediate Jewelry and Metalsmithing	
ART 36A	Intermediate Wheel Throwing	
	ŭ	

ART 38A	Intermediate Hand-Building	3
ART 52	Introduction to Digital Art/New Media	3
ART 55	Introduction to Asian Art	3
ART 60	Art of the Ancient Americas	3
		Total 27

#### # ART HISTORY FOR TRANSFER - MAJOR #5206

new program, Fall 2019

The Associate in Arts in Art History for Transfer Degree offers a core foundation for the study of art history across cultures and eras. The program prepares students to continue their studies towards a degree in art history or studio arts at the California State University (CSU) and the University of California (UC) systems. Students will learn skills of analyzing art within its historical and cultural context using art-specific terminology and methodologies. To earn the Associate in Arts in Art History 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 18-20 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:**

Analyze a variety of techniques and formal visual elements of individual works of art in different media and diverse cultures.

- 2. Define and differentiate various styles of art throughout history.
- Evaluate works of art in relation to context, historical background, and influence on subsequent artistic periods.
- Compare stylistic elements that distinguish aesthetic and cultural trends.

Required Core		Units
ART 5/5H	Art History Ancient to Medieval, or	0
ART 6/6H	Honors Art History Ancient to Medieval	3
ART 0/0H	Art History Renaissance to Modern, or Honors Art History Renaissance to Modern	3
ART 7	Beginning Drawing	
AIX I	Degining Drawing	
List A - Select	one of the following:	Units
ART 55	Introduction to Asian Art	
ART 60	Art of the Ancient Americas	3
List B – Select	one of the following:	Units
ART 3	Two-Dimensional Design	
ART 4	Three-Dimensional Design	
ART 8	Beginning Figure Drawing and Anatomy	
ART 9	Beginning Painting: Oil/Acrylic	
ART 10	Beginning Ceramics	
ART 11	Beginning Sculpture	3
ART 14	Beginning Printmaking	
ART 52	Introduction to Digital Art/New Media	3
List C - Select	one of the courses below or one from List A or	
List B not alrea		Units
AFRAM 3	African-American Art	
AMIND 35	American Indian Art	
ANTHRO 3	Archaeology and World Prehistory	3
ANTHRO 4	Introduction to Archaeology	
ARCH 15A	History of Architecture I	
ARCH 15B	History of Architecture II	3
ART 70	Modern and Contemporary Art	
CLS 20	Chicano Art	3
FILM 1	Introduction to Film Studies	
FILM 3	Film and Culture	
FRENCH 1	Beginning French	
FRENCH 2	High-Beginning French	
FRENCH 3	Intermediate French	
GERMAN 1	Beginning German	
GERMAN 2	High-Beginning German	5

HUMAN 10/10H	Classical Humanities, or	
	Honors Classical Humanities	3
HUMAN 11/11H	Modern Humanities, or	
	Honors Modern Humanities	3
PHIL 1A	Theories of Knowledge and Reality	3
PHIL 1D	World Religions	3
SPAN 1	Beginning Spanish	5
SPAN 2	High-Beginning Spanish	
SPAN 3	Intermediate Spanish	
SPAN 4	High-Intermediate Spanish	
		otal 18-20

# # STUDIO ART - MAJOR #5210

program correction, Fall 2019

Offers the student a fundamental understanding of art and studio practices by completing 18 art units. Students will build a comprehensive portfolio that reflects their media of choice.

# **Certificate of Achievement**

- 1. Apply knowledge of art fundamentals in order to identify, formulate, and resolve basic art and design problems.
- 2. Understand and use a variety of media and processes to accomplish artistic goals.
- 3. Demonstrate an ability to critique and analyze artwork visually, orally, or in writing.

Required Core (		Units
ART 3	Two-Dimensional Design	
ART 4	Three-Dimensional Design	
ART 7	Beginning Drawing	3
List A (9 Units):		Units
ART 8	Beginning Figure Drawing and Anatomy	3
ART 9	Beginning Painting: Oil/Acrylic	3
ART 10	Beginning Ceramics	
ART 11	Beginning Sculpture	
ART 12A	Craft Workshop: Living Traditions	
ART 12B	Intermediate Craft Workshop: Living Traditions	3
ART 13	Beginning Watercolor Painting	3
ART 14	Beginning Printmaking	3
ART 15	Ceramic Sculpture	3
ART 16	Life Painting	3
ART 17	Intermediate Drawing	3
ART 18	Intermediate Figure Drawing and Anatomy	3
ART 19	Intermediate Painting: Oil/Acrylic	3
ART 20	Intermediate Ceramics	3
ART 21	Intermediate Sculpture	
ART 22B	Craft Workshop: Concepts in Fibers	3
ART 23	Intermediate Watercolor Painting	3
ART 24A	Intaglio Printmaking	
ART 24B	Lithograph Printmaking	3
ART 24C	Relief Printmaking	3
ART 24D	Screenprinting	3
ART 25	Mural Painting	3
ART 25A	Intermediate Mural Painting	3
ART 27	Advanced Drawing	3
ART 28	Advanced Figure Drawing and Anatomy	3
ART 29	Advanced Painting: Oil/Acrylic	3
ART 31	Advanced Sculpture	3
ART 32A	Beginning Jewelry and Metalsmithing	
ART 32B	Intermediate Jewelry and Metalsmithing	3
ART 36A	Intermediate Wheel Throwing	3
ART 38A	Intermediate Hand-Building	3
ART 40	Photography as Art	
ART 52	Introduction to Digital Art/New Media	
	-	Total 18

<sup>\*</sup>ART 3, ART 4, and ART 7 should be taken before other courses in the major.

# **AUTOMOTIVE TECHNOLOGY**

# # DIESEL TECHNOLOGY - MAJOR #8059

new program, Fall 2019

Satisfactory completion of this curriculum prepares the student for entry-level employment as a skilled technician in the diesel technology service and repair industry. Students will perform actual service and repair procedures in the diesel technology laboratory. This curriculum has been certified by the National Institute for Automotive Service Excellence (ASE) Education Foundation.

# Associate in Science and Certificate of Achievement

- 1. Students will create a diagnostic path appropriate for a given system to industry standards.
- 2. Student will demonstrate the appropriate repair procedure for a given system to industry standards.

Required Core		Units
AT 10	Technical Computer Applications	
AUTOT 10 AUTOT 19	Introduction to Diesel Technology	
AUTOT 61	Diesel Engines	
AUTOT 62	Electrical/Electronics for Diesel Technology	
AUTOT 63	Diesel Fuel and Emission Systems	
AUTOT 64	MD/HD Suspension, Steering, and Alignment	
AUTOT 65 AUTOT 66	MD/HD Powertrain SystemsMD/HD Brakes and Preventative Maintenance	υ
A010100	Inspection (PMI)	4
AUTOT 67	MD/HD Heating, Ventilation, Air Conditioning and	
	Advanced Electronics	
WELD 1	Exploring Welding/Metals	3
Elective Course	es ·	Units
AUTOT 68	Individualized Skills Training (IST) Truck &	
	Bus Chassis System I Laboratory	1
AUTOT 68A	Individualized Skills Training (IST) Truck &	4
AUTOT 68B	Bus Chassis System II LaboratoryIndividualized Skills Training (IST) Truck &	1
A0101 00D	Bus Engine/Propulsion Systems	1
AUTOT 68C	Individualized Skills Training (IST) Truck &	
	Bus Power Train Systems Laboratory	1
		Total 55
RECOMMENDE		Total 55
First Year - Fall	l Semester	Total 55 Units
First Year - Fall AT 10	Semester Technical Computer Applications	Total 55 <b>Units</b> 3
First Year - Fall AT 10 AUTOT 10	Semester Technical Computer ApplicationsIntroduction to Diesel Technology	Total 55 <b>Units</b> 3
First Year - Fall AT 10	Semester Technical Computer Applications Introduction to Diesel Technology Electrical/Electronics for Diesel Technology	Total 55  Units33
First Year – Fall AT 10 AUTOT 10 AUTOT 62 AUTOT 63	Technical Computer Applications	Total 55  Units33
First Year – Fall AT 10 AUTOT 10 AUTOT 62 AUTOT 63 First Year – Spr	Technical Computer Applications	Total 55  Units34
First Year – Fall AT 10 AUTOT 10 AUTOT 62 AUTOT 63	Technical Computer Applications	Total 55  Units34
First Year – Fall AT 10 AUTOT 10 AUTOT 62 AUTOT 63 First Year – Spr AUTOT 65	Technical Computer Applications	Total 55  Units
First Year – Fall AT 10 AUTOT 10 AUTOT 62 AUTOT 63 First Year – Spr AUTOT 65	Technical Computer Applications	Total 55  Units
First Year – Fall AT 10 AUTOT 10 AUTOT 62 AUTOT 63 First Year – Spr AUTOT 65 AUTOT 67	Technical Computer Applications	Total 55  Units
First Year – Fall AT 10 AUTOT 10 AUTOT 62 AUTOT 63 First Year – Spr AUTOT 65 AUTOT 67 WELD 1	Technical Computer Applications	Total 55  Units
First Year – Fall AT 10 AUTOT 10 AUTOT 62 AUTOT 63 First Year – Spr AUTOT 65 AUTOT 67 WELD 1 First Year – Sur	Technical Computer Applications	Total 55  Units
First Year – Fall AT 10 AUTOT 10 AUTOT 62 AUTOT 63 First Year – Spr AUTOT 65 AUTOT 67 WELD 1 First Year – Sur AUTOT 61 Second Year – I	Technical Computer Applications	Total 55  Units
First Year - Fall AT 10 AUTOT 10 AUTOT 62 AUTOT 63 First Year - Spr AUTOT 65 AUTOT 67 WELD 1 First Year - Sur AUTOT 61 Second Year - I	Technical Computer Applications	Total 55  Units
First Year – Fall AT 10 AUTOT 10 AUTOT 62 AUTOT 63 First Year – Spr AUTOT 65 AUTOT 67 WELD 1 First Year – Sur AUTOT 61 Second Year – I AUTOT 64 AUTOT 66	Technical Computer Applications	Total 55  Units
First Year – Fall AT 10 AUTOT 10 AUTOT 62 AUTOT 63 First Year – Spr AUTOT 67 WELD 1 First Year – Sur AUTOT 61 Second Year – I AUTOT 64 AUTOT 66 AUTOT 19	Technical Computer Applications Introduction to Diesel Technology Electrical/Electronics for Diesel Technology Diesel Fuel and Emission Systems Fing Semester MD/HD Powertrain Systems MD/HD Heating, Ventilation, Air Conditioning and Advanced Electronics Exploring Welding/Metals  mmer Semester Diesel Engines Fall Semester MD/HD Suspension, Steering, and Alignment. MD/HD Brakes and Preventative Maintenance Inspection (PMI) Work Experience (Cooperative), Occupational	Total 55  Units
First Year – Fall AT 10 AUTOT 10 AUTOT 62 AUTOT 63 First Year – Spr AUTOT 67 WELD 1 First Year – Sur AUTOT 61 Second Year – I AUTOT 64 AUTOT 66 AUTOT 19	Technical Computer Applications	Total 55  Units

# **BUSINESS & TECHNOLOGY**

#### **# BOOKKEEPING FUNDAMENTALS - MAJOR #2015**

new program, Spring 2020

Skills for spreadsheet management, bookkeeping, and accounting tasks, applicable to both the workplace and to more advanced courses in the subject matter.

#### Certificate

# **Student Learning Outcomes:**

- 1. Create a worksheet in Excel using correct formatting, formulas, and functions, with the ability to create graphs.
- 2. Journalize and post a variety of typical business transactions, including payroll records and banking documents.

Required C	ourses	Units
BT 24	Beginning Excel	
BT 131	Applied Accounting	
		Total 4.5

#### **# BUSINESS OFFICE ENGLISH - MAJOR #2372**

revised program, Spring 2020

This certificate is designed to improve English grammar, speaking, writing, and presentation skills needed in the office.

# Certificate

# **Student Learning Outcomes:**

- 1. Use correct English grammar to communicate effectively when speaking, writing, and presenting in business settings.
- 2. Identify problems and revise business communication to improve meaning, tone, and clarity.

Required Core	Courses	Units
BT 5	Workplace Communication	3
BT 112	Business English	3
	ŭ	Total 6

# # FOUNDATIONS FOR THE OFFICE PROFESSIONAL - MAJOR #2326

Certificate

deleted program, Spring 2020

# # MEDICAL OFFICE ASSISTANT - FORMERLY MEDICAL BILLING ASSISTANT - MAJOR #2243

revised program, Spring 2020

This certificate option is designed to meet the training needs for qualified entry level employment in a medical office setting. Students are required to earn grades of "C" or better in all courses.

#### **Certificate of Achievement**

# **Student Learning Outcomes:**

- 1. Perform basic administrative duties in a medical office using appropriate technology.
- 2. Support billing and collections by applying knowledge of coding procedures and insurance programs.
- 3. Communicate effectively and according to legal guidelines in a professional health care setting.

Units	urses	Required Co
1	Resume/Interview	BT 120
1	Medical Office Vocabulary	BT 143
2.5	Medical Administrative Assistant	BT 144
2	Medical Management Software	BT 147
	Medical Insurance & Billing Concepts	BT 148
Total 9		

# # OFFICE PROFESSIONAL I - MAJOR #2062

Associate in Science and Certificate of Achievement deleted programs, Spring 2020

# OFFICE PROGESSIONAL – LEGAL OFFICE EMPHASIS – FORMERLY LEGAL ADMINISTRATIVE ASSISTANT EMPHASIS AND LEGAL OFFICE PROFESSIONAL – MAJOR #2104

revised program, Spring 2020

Training is designed to prepare students for employment in a legal office environment. 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. 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		Units
BT 1	Computer Document Processing I	3
BT 9	Computer Applications I	
BT 19	Work Experience (Cooperation), Occupational	
BT 23	Job Search and Workplace Skills	
BT 112	Business English	
Required Emph	asis Courses	Units
BT 140/		
PLEGAL 156	Legal Document Processing	3
PLEGAL 7	Law Offices Practices	3
PLEGAL 14	Law Office Computing	3
		Total 24
RECOMMENDE	D SEQUENCE	
RECOMMENDE First Semester	D SEQUENCE	Units
First Semester	Computer Document Processing I	3
First Semester BT 1		
First Semester BT 1 BT 9	Computer Document Processing I	
First Semester BT 1 BT 9 BT 112	Computer Document Processing I	3 3 Units
First Semester BT 1 BT 9 BT 112 Second Semest BT 19 BT 23	Computer Document Processing I	33 Units
First Semester BT 1 BT 9 BT 112 Second Semest BT 19 BT 23 BT 140/	Computer Document Processing I	333 Units2
First Semester BT 1 BT 9 BT 112 Second Semest BT 19 BT 23	Computer Document Processing I  Computer Applications I  Business English  er  Work Experience (Cooperation), Occupational	3 4 3 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4

# # OFFICE PROGESSIONAL – LEGAL OFFICE EMPHASIS – FORMERLY LEGAL ADMINISTRATIVE ASSISTANT EMPHASIS AND LEGAL OFFICE PROFESSIONAL – MAJOR #2104

revised program, Spring 2020

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**

- 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	3
BT 9	Computer Applications I	
BT 19	Work Experience (Cooperation), Occupational	
BT 23	Job Search and Workplace Skills	
BT 112	Business English	
BT 115	Refresher Math	3
Required Emph	nasis Courses	Units
PLEGAL 156	Legal Document Processing	3
PLEGAL 7	Law Offices Practices	
PLEGAL 14	Law Office Computing	
		Total 27

#### **RECOMMENDED SEQUENCE**

First Semester		Units
BT 1	Computer Document Processing I	3
BT 9	Computer Applications I	4
BT 112	Business English	
BT 115	Refresher Math	
Second Semeste	er	Units
BT 19	Work Experience (Cooperation), Occupational	2
BT 23	Job Search and Workplace Skills	3
BT 140/		
PLEGAL 156	Legal Document Processing	3
PLEGAL 7	Law Offices Practices	3
PLEGAL 14	Law Office Computing	3

# OFFICE PROGESSIONAL – MEDICAL OFFICE EMPHASIS – FORMERLY MEDICAL ADMINSTRATIVE ASSISTANT EMPHASIS – MAJOR #2383

revised program, Spring 2020

Training is designed to prepare students for employment in a medical office environment. Additional general education units are required for AS degree. 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 the Office Professional I and emphasis courses.

# **Associate in Science**

# **Student Learning Outcomes:**

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

Required C	ore Courses	Units
BT 1	Computer Document Processing I	3
BT 9	Computer Applications I	
BT 19	Work Experience (Cooperation), Occupational	
BT 23	Job Search and Workplace Skills	
BT 112	Business English	3
Required E	mphasis Courses	Units
BT 143	Medical Office Vocabulary	1
BT 144	Medical Administrative Assistant	
BT 147	Medical Management Software	2
BT 148	Medical Insurance & Billing Concepts	2.5
	,	Total 23
RECOMME	NDED SEQUENCE	
First Semes	ster	Units
BT 1	Computer Document Processing I	3
RT 0	Computer Applications I	

i ii at aciiicai	VI	Ullita
BT 1	Computer Document Processing I	3
BT 9	Computer Applications I	4
BT 143	Medical Office Vocabulary	1
BT 144	Medical Administrative Assistant	
BT 148	Medical Insurance & Billing Concepts	2.5
Second Sem	ester	Units
Second Sem BT 19	ester Work Experience (Cooperation), Occupational	• • • • • • • • • • • • • • • • • • • •
	Work Experience (Cooperation), Occupational	2
BT 19		2
BT 19 BT 23	Work Experience (Cooperation), Occupational  Job Search and Workplace Skills	2 3

# OFFICE PROGESSIONAL – MEDICAL OFFICE EMPHASIS – FORMERLY MEDICAL ADMINSTRATIVE ASSISTANT EMPHASIS AND MEDICAL OFFICE PROFESSIONAL – MAJOR #2383

revised program, Spring 2020

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. Achieve a satisfactory evaluation in a work experience setting.
- 3. Perform medical administrative duties.

Required Core (	Courses	Units
BT 1	Computer Document Processing I	3
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 Emph	asis 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 26
RECOMMENDE	D SEQUENCE	
RECOMMENDE First Semester	D SEQUENCE	Units
	- <del></del>	
First Semester	Computer Document Processing I	3
First Semester BT 1	Computer Document Processing I  Computer Applications I	3
First Semester BT 1 BT 9	Computer Document Processing I  Computer Applications I  Medical Office Vocabulary	3 4
First Semester BT 1 BT 9 BT 143	Computer Document Processing I  Computer Applications I	3 1 2.5
First Semester BT 1 BT 9 BT 143 BT 144	Computer Document Processing I	3 1 2.5
First Semester BT 1 BT 9 BT 143 BT 144 BT 148	Computer Document Processing I	3
First Semester BT 1 BT 9 BT 143 BT 144 BT 148  Second Semest BT 19 BT 23	Computer Document Processing I	3412.52.5 Units23
First Semester BT 1 BT 9 BT 143 BT 144 BT 148  Second Semest BT 19 BT 23 BT 112	Computer Document Processing I	3 4 2.5 2.5 <b>Units</b> 2 3 3 3
First Semester BT 1 BT 9 BT 143 BT 144 BT 148  Second Semest BT 19 BT 23	Computer Document Processing I	

#### # ONE-PERSON OFFICE - MAJOR #2063

revised program, Spring 2020

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. Demonstrate key skills in order to effectively meet customer needs and provide outstanding customer service.
- 2. Journalize and post a variety of typical business transactions.
- 3. Apply emerging technologies to business and administrative processes to maximize efficiency and effectiveness.

Required Core	e Courses	Units
BT 5	Workplace Communication	3
BT 31	21st Century Workforce Skills	1.5
BT 33	Social Media and Emerging Technologies in the Work	
BT 131	Applied Accounting	3.5
BT 132	Customer Service in the One-Person Office	3
		Total 14

# **CHICANO-LATINO STUDIES**

# # SOCIAL JUSTICE STUDIES, CHICANO STUDIES FOR TRANSFER - MAJOR #7662

new program, Fall 2019

Social Justice Studies was created as an "Area of Emphasis" Associates Degree for Transfer (ADT). This ADT includes Programs in Cultural or Ethnic Studies and Women's Studies, and is designed to give students a broad background in the histories of various racial and ethnic groups, and the contemporary challenges faced by these groups in our society. Social Justice is the basic principle that all members of a society are entitled to equal rights and opportunities, and Social Justice Studies seeks to examine existing inequities, particularly as they relate to race, ethnicity, gender, and sexuality. The Social Justice Studies ADT in Chicano Studies is designed to transfer into the CSU system, and can be used as the foundation for a Bachelor's Degree in the following areas: American Studies, Chicana and Chicano or Mexican American Studies, and Comparative Ethnic Studies. To earn the Associate in Arts in Social Justice 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 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. Demonstrate academic preparedness for transfer to a four-year college.
- 2. Examine and appraise the intersections of race, class, gender, religion and other cultural indicators in issues of social justice in the United States.
- 3. Compare and contrast the primary goals of social justice movements of the 20th century and evaluate correlations to contemporary social justice movements.
- 4. Students will demonstrate critical thinking and problem solving skills across disciplines as they relate to the Chicano-Latino community.
- 5. Students will acquire a comprehensive knowledge and understanding of Chicano-Latino history, culture, arts, and socio-political issues.
- 6. Students will demonstrate a commitment to active citizenship, and develop leadership skills and an understanding of social justice principles and their application in order to promote positive social change in the Chicano-Latino community and the broader society.

Required Core (	Courses	Units
AMST 10	American Pluralism: A Search for	
	Common Ground in a Multicultural Society	
CLS 12	Mexican American History	
WSTS 10	Changing Roles of Women	3
Select three (3)	courses from at least two of the following areas:	
Area 1: History	or Government	Units
CLS 29	History of Mexico, Colonial to Contemporary Period	3
Area 2: Arts and		Units
CLS 20	Chicano Art	
CLS 21	Chicano Literature	3
		•• •
Area 3: Social S		Units
CLS 11	Introduction to Chicano-Latino Studies	3
CLS 30	Migration and the Family: Social and	•
	Psychological Perspectives	3
Aros 4: Major D	ronaration	Units
Area 4: Major Pi CLS 13	Politics and the Chicano-Latino Community	
CLS 13	Sociology of the Mexican American Community	
OLO 14	Coolology of the Mexican American Community	Total 18
		Total 10

# COMMUNICATION

COMMUNICATION STUDIES FOR TRANSFER - FORMERLY SPEECH - MAJOR #5432

Associate in Arts

program correction, Spring 2017

# COMPUTER INFORMATION TECHNOLOGY

**ANDROID APPLICATION DEVELOPER - MAJOR #2730** 

program revised, Spring 2020

Designed to assist students who would like to develop mobile applications for Android devices.

# Certificate

# **Student Learning Outcomes:**

1. Given a business programming scenario, create an interactive mobile application as a solution to the scenario. Students will use Android programming software to design, code, debug and deploy an object-oriented program.

Required Courses		
CIT 63	Beginning Java Programming	4
CIT 65	Android Programming Applications	4
		Total 8

# **COMPUTER INFORMATION SYSTEMS - MAJOR #2701**

program revised, Spring 2020

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:**

- Design and develop a software business solution using a programming language. Projects and assignments.
- 2. Create and maintain a server-client computer network to meet the needs of an organization. Projects, exams, and assignments.

Required Cours CIT 15 CIT 45 CIT 48B DS 23	Computer Concepts	3 4
Select One of th	•	Units
CIT 60	Beginning Visual Basic	
CIT 63	Beginning Java Programming	
CIT 66	Beginning C++ Programming	
CIT 70	Beginning Swift Programming	
CIT 93	JavaScript	4
Select Two of th	ne Following:	Units
BA 28	E-Law and Ethics	3
CIT 28	Client/Server Databases	3
CIT 40	Computer Operating Systems	
CIT 50	Fundamentals of Networking	4
CIT 58C	Security+ Fundamentals	3
CIT 58F	Ethical Hacking	
CIT 65	Android Programming Applications	
CIT 69	iOS Programming Applications	4
		Total 23-25

# **CYBER TECHNICIAN SPECIALIST - MAJOR #2751**

program revised, Spring 2020

This option is designed to meet the training needs for qualified entry-level hardware/software and basic security personnel.

#### Certificate

#### **Student Learning Outcomes:**

1. Prepare students for an entry level position in the IT/Cybersecurity field.

Required Courses		Units
CIT 48A	IT+ Fundamentals	3
CIT 48B	A+ and Security Principles	4
	•	Total 7

# CYBERSECURITY - MAJOR #2750

program revised, Spring 2020

The California Community College's Information Technology Cyber Security Certificate Collaborative Program is a fully online, zero textbook cost program designed to prepare students for entry level cyber security positions across industry and government and also prepare students to sit for nationally recognized certification exams from Cisco and CompTIA.

# **Certificate of Achievement**

## **Student Learning Outcomes:**

- 1. Create and implement security policies for an organization.
- 2. Configure computer and networks to protect information from exfiltration.

Required Courses		Units
CIT 45	Data Communications	3
CIT 48A	IT+ Fundamentals	3
CIT 48B	A+ and Security Principles	4
CIT 54A	Network Security	3
CIT 54B	Cybersecurity Operations	3
CIT 58C	Security+ Fundamentals	3
CIT 59	Linux System Administration	3
EST 62	Routing & Switching Essentials	
		Total 25

#### **# SYSTEM SUPPORT SPECIALIST - MAJOR #2723**

program correction, Fall 2019

This option is designed to meet the training needs for qualified entry-level systems support personnel.

#### Certificate

# **Student Learning Outcomes:**

1. Given a software or hardware problem, configure, troubleshoot, and repair the computer.

Fall Semesto	er Computer Operating Systems	Units 4
CIT 45	Data Communications	
Spring Semester		Units
CIT 48B	A+ and Security Principles	3
EST 60	A+ PC Maintenance and Repair	3
	·	Total 13

## SYSTEM SUPPORT SPECIALIST - MAJOR #2723

program revised, Spring 2020

This option is designed to meet the training needs for qualified entry-level systems support personnel.

# Certificate

# **Student Learning Outcomes:**

1. Given a software or hardware problem, configure, troubleshoot, and repair the computer.

Fall Semester CIT 40 CIT 45	Computer Operating Systems  Data Communications	
Spring Semes CIT 48B		Units
EST 60	A+ PC Maintenance and Repair	

# # WEB DEVELOPER - MAJOR #2742

program correction, Fall 2019

This option is designed to prepare students for work in the computer industry as Web Developers. Completing the program with the college graduation requirements leads to an AS degree; without the graduation requirements, student is eligible for a certificate of achievement.

# Associate in Science

## **Student Learning Outcomes:**

1. Given a business scenario create an interactive client-side and/or server-side, data-driven website using appropriate tools to create a solution addressing the scenario.

Required Cou	urses	Units	
CIT 82	Introduction to Web Development	3	
CIT 85	HTML and CSS	3	
CIT 90	Beginning Go Language Programming		
CIT 93	JavaScript		
Select Two of the Following Courses:  Units			
CIT 28	Client/Server Databases	3	
CIT 63	Beginning Java Programming		
CIT 84	Web Development Frameworks		
CIT 94	Node.js	4	
CIT 97	Web Development with The Go		
	Programming Language	4	
CIT 99	Introduction to Machine Learning	4	
	•	Total 21-22	

# CRIMINOLOGY

#### **ADMINISTRATION OF JUSTICE FOR TRANSFER - MAJOR #7750**

program correction, Spring 2016

Administration of justice is the study of the causes, consequences, and control of crime. The program leading to the Associate in Science in the Administration of Justice for Transfer [AS-T] is designed to acquaint students with the principles and practices of criminal justice systems in America. The curriculum allows for the development of depth in one of the subject's subsystems (law enforcement, juvenile, courts, or corrections), and also gain familiarity with the basics of all areas. It is both academic and professional in that it is an interdisciplinary attempt to relate intellectual issues and practitioner perspectives to the challenge of crime in a free society. It provides the information necessary for employment with a related agency and/or transfer to a college or university. Those completing the AS-T in Administration of Justice will be able to transfer to the California State University System, and be prepared to study in Administration of Justice, Law Enforcement, Correctional Administration, Social Science, and Pre-Law. Upon completion students will be prepared to pursue a BA/BS in Criminal Justice. To earn the transfer degree students must complete a minimum of 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 18-20 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. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

# **Associate in Science**

- 1. Reflect critically on developments in criminal justice policy and the relationship of those policies to the wider political and social environment.
- 2. Compare and evaluate diverse and competing arguments in disciplinary (justice system) and interdisciplinary contexts.
- 3. Demonstrate knowledge of the history, structure and processes of law enforcement, the judicial system, the correctional system, and the juvenile justice system.
- 4. Define and utilize key terms, concepts, and theories in the criminal justice system.
- 5. Interpret, assess, and compare competing types of evidence and data.
- 6. Effectively communicate orally and in writing the results of their analysis and conclusions.

Required Course	es	Units
CRIM 1	Introduction to Criminology	3
CRIM 6	Concepts of Criminal Law	3
Select two cours	ses from the following:	Units
CRIM 3	Legal Aspects of Evidence	3
CRIM 4	Principles & Procedures of the Justice System	3
CRIM 5	Community Relations	3
CRIM 8	Criminal Investigation	4
CRIM 9	Crime Scene Forensic Evidence	3
CRIM 11	Juvenile Delinquency	3
CRIM 20	Introduction to Corrections	3

Select two cours	ses from the following:	Units
CRIM 13	The Constitution and Your Individual Rights	3
MATH 11	Elementary Statistics, or	
MATH/PSY 42	Statistics for the Behavioral Sciences	4
PSY 2/2H	General Psychology, or	
	Honors General Psychology	3
SOC 1A/1AH	Introduction to Sociology, or	
	Honors Introduction to Sociology	3
	•	Total 18-20

# **CULTURAL STUDIES**

# # SOCIAL JUSTICE STUDIES, GENERAL FOR TRANSFER - MAJOR #7663

new program, Fall 2019

Social Justice Studies was created as an "Area of Emphasis" Associates Degree for Transfer (ADT). This ADT includes Programs in Cultural or Ethnic Studies and Women's Studies, and is designed to give students a broad background in the histories of various racial and ethnic groups, and the contemporary challenges faced by these groups in our society. Social Justice is the basic principle that all members of a society are entitled to equal rights and opportunities, and Social Justice Studies seeks to examine existing inequities, particularly as they relate to race, ethnicity, gender, and sexuality. The Social Justice Studies ADT is designed to transfer into the CSU system, and can be used as the foundation for a Bachelor's Degree in the following areas: American Indian Studies, African American or Africana Studies, American Studies, Asian American Studies, Chicana and Chicano or Mexican American Studies, Comparative Ethnic Studies, Gender Studies, Women's Studies, Labor Studies, and some Sociology Programs. To earn the Associate in Arts in Social Justice 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 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. Demonstrate academic preparedness for transfer to a four-year college.
- 2. Examine and appraise the intersections of race, class, gender, religion and other cultural indicators in issues of social justice in the United States.
- 3. Compare and contrast the primary goals of social justice movements of the 20th century and evaluate correlations to contemporary social justice movements.

Required Core Courses		
AFRAM 1	Introduction to African American Studies, or	
AMIND 31	American Indian Culture, or	
ASAMER 15	Introduction to Asian-Americans, or	
CLS 11	Introduction to Chicano-Latino Studies	3
AMST 10	American Pluralism: A Search for	
	Common Ground in a Multicultural Society	3
WSTS 10	Changing Roles of Women	3

# Select three (3) courses from at least two of the following areas:

Area 1: History	or Government	Units
AFRAM 4	Classical and Pre Colonial Africa	3
AFRAM 34	History of the American Civil Rights Movement	3
AMST 11	Law and Democracy	3
CLS 29	History of Mexico, Colonial to Contemporary Period	

Area 2: Arts and	l Humanities	Units
AFRAM 3	African-American Art	3
AFRAM 8	African-American Creative Workshop	3
AFRAM 15	African American Music	3
AMIND 35	American Indian Art	3
ASAMER 8	Chinese Culture	3
CLS 17A	Beginning Mexican Folk Dance	3.5
CLS 20	Chicano Art	
CLS 21	Chicano Literature	3
CLS 22	Art of the Ancient Americas	3
CLS 27B	Advanced Mexican Folk Dance	3.5
WSTS 36	Women's Literature	3

Area 3: Social S	Science	Units
AMIND 20	Native Peoples of California	3
AMIND 31	American Indian Culture	
AMIND 34	The American Indian in Contemporary Society	3
ASAMER 1	Indo-Chinese Americans	3
ASAMER 15	Introduction to Asian-Americans	3
CLS 12	Mexican American History	3
WSTS 47	Introduction to Lesbian and Gay Studies	
Area 4: Major P	reparation	Units
AFRAM 2	African American Cultural Adaptation	3
ASAMER 20	Asian American Literature	
ASAMER 25	Asian American Social Issues	3
ASAMER 55	Introduction to Asian Art	3
CLS 13	Politics and the Chicano-Latino Community	3
CLS 14	Sociology of the Mexican American Community	
CLS/WSTS 24	La Chicana and Latina	

# DANCE

# # DANCE - MAJOR #5390

revised program, Spring 2020

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**

- 1. Perform dance in a public setting.
- 2. Describe characteristic elements and form of various dance and choreographic styles.

Required Cours	es	Units
DANCE 10B DANCE 28A	Pre-Intermediate Modern Dance Technique, or Intermediate Modern Dance Technique	1-1.5
DANCE 12B	Beginning Ballet Part 2, or	
DANCE 13A	Intermediate Ballet Technique	1-1.5
DANCE 20A	Beginning Modern Dance Composition	
DANCE 30	Dance Appreciation	3
Select Two of th	ne Following Courses:	Units
DANCE 21	Fall Dance Concert 1	
DANCE 22	Spring Dance Concert 1	2-4
DANCE 31	Fall Dance Concert 2	
DANCE 32	Spring Dance Concert 2	2-4
	Six Units from the Following (courses used to sa	•
the Required Co	re connet he used to estisfy this blockly	llmita
	ore cannot be used to satisfy this block):	Units
DANCE 9	Dance Conditioning	1
DANCE 9 DANCE 13A	Dance ConditioningIntermediate Ballet Technique	1
DANCE 9 DANCE 13A DANCE 13B	Dance Conditioning	1.5 1.5
DANCE 9 DANCE 13A DANCE 13B DANCE 14	Dance Conditioning Intermediate Ballet Technique Pre-Advanced Ballet Technique Beginning Jazz Dance Technique	1 1.5 1.5
DANCE 9 DANCE 13A DANCE 13B DANCE 14 DANCE 15	Dance Conditioning	1.5 1.5 1.5
DANCE 9 DANCE 13A DANCE 13B DANCE 14 DANCE 15 DANCE 16	Dance Conditioning	1.5 1.5 1.5 1
DANCE 9 DANCE 13A DANCE 13B DANCE 14 DANCE 15 DANCE 16 DANCE 17B	Dance Conditioning	1.5 1.5 1.1 1 1
DANCE 9 DANCE 13A DANCE 13B DANCE 14 DANCE 15 DANCE 16 DANCE 17B DANCE 18	Dance Conditioning	1.5 1.5 1.1 1 1 
DANCE 9 DANCE 13A DANCE 13B DANCE 14 DANCE 15 DANCE 16 DANCE 17B DANCE 18 DANCE 20B	Dance Conditioning	
DANCE 9 DANCE 13A DANCE 13B DANCE 14 DANCE 15 DANCE 16 DANCE 17B DANCE 18	Dance Conditioning	
DANCE 9 DANCE 13A DANCE 13B DANCE 14 DANCE 15 DANCE 16 DANCE 17B DANCE 18 DANCE 20B	Dance Conditioning	
DANCE 9 DANCE 13A DANCE 13B DANCE 14 DANCE 15 DANCE 16 DANCE 17B DANCE 18 DANCE 20B DANCE 27A	Dance Conditioning	
DANCE 9 DANCE 13A DANCE 13B DANCE 14 DANCE 15 DANCE 16 DANCE 17B DANCE 18 DANCE 20B DANCE 27A DANCE 28A	Dance Conditioning	
DANCE 9 DANCE 13A DANCE 13B DANCE 14 DANCE 15 DANCE 16 DANCE 17B DANCE 18 DANCE 20B DANCE 27A DANCE 28A TA 27B	Dance Conditioning	

# **DENTAL HYGIENE**

## **DENTAL HYGIENE - MAJOR #4580**

program revised, Spring 2020

The Registered Dental Hygienist (RDH) provides dental health education, promotes and encourages the preventive aspects of dental care, administers local anesthesia, delivers nitrous oxide/oxygen analgesia, exposes and processes dental x-rays, performs oral cancer screenings, removes deposits and stains from teeth, performs gingival soft tissue management (curettage), and generally assumes responsibilities for dental hygiene patient care in the dental office.

Completion of the Dental Hygiene Program leads to an Associate in Science degree. After completing the program and passing the National Board examination, graduates are eligible to apply for and take the California State Board and/or other clinical examinations for licensing Registered Dental Hygienists.

Dental hygiene students will be required, as part of the total dental hygiene program, to participate in service learning activities. These activities could include community dental health projects, hospital clinical practice, and other field excursions of educational value.

# **Application Requirements**

Enrollment is limited in the dental hygiene program. Minimum qualifications for selection must be met. There are no restrictions as to age, race, gender, or marital status. Minimum prerequisite requirements for application to the program are the following:

- 1. Have graduated from high school or have an average score of 45 on the General Educational Development (GED) test.
- 2. Have a minimum cumulative college grade point average (GPA) of 2.70.
- 3. Have completed Biology 20, Human Anatomy, and Biology 22, Human Physiology (or equivalent), or Biology 21A and 21B (or equivalent), with a grade of "C" or better.
- 4. Have completed English 1A, Reading and Composition; Mathematics 103, Intermediate Algebra, or another more advanced math course; Chemistry 3A, Introductory General Chemistry; Chemistry 3B, Organic and Biological Chemistry; Biology 31, Microbiology; Food and Nutrition 40, Nutrition; Communication 1 or 2, Introduction to Public Speaking or Interpersonal Communication; Psychology 2, General Psychology; and Sociology 1A, Introduction to Sociology; (or equivalents to these courses) with grades of "C" or better.
- 5. Have completed an Academic Summary Form for the Dental Hygiene Program.
- 6. Have no physical impairment that would preclude the performance of all dental hygiene duties.
- 7. Be in good physical and mental health.

#### Academic Requirements

All program entry requirement courses listed above must be completed with a grade of "C" or better. In order to be eligible to take the California State Dental Hygiene Board examination, all other courses leading to the associate degree must also be completed with a grade of "C" or better.

Students in the dental hygiene program must earn a "C" grade or better (or a "Credit" grade when applicable) in all dental hygiene courses. Less than a "C" or a "Credit" grade in any dental hygiene 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.

#### **Background Check**

Upon entry into the program, students may be required to obtain a background check.

# Change of Name, Address, and/or Telephone Number

Applicants and dental hygiene students must keep the Dental Hygiene Office informed of any change in name, address, and/or telephone number. Failure of applicants to inform the Dental Hygiene Office of this vital information may result in loss of entry into the program. Dental hygiene students must have working e-mail addresses.

# **Associate in Science**

- 1. Complete the National Board Dental Hygiene Examination with a score of 75th percentile or better.
- 2. Pass clinical licensing examinations.

First Year -	First Semester	Units
DH 1A	Oral Biology	2
DH 3A	Pre-Clinical Dental Hygiene Techniques	4
DH 4	Oral Radiography	4
DH 10	Head and Neck Anatomy	

First Year - Sec	ond Semester	Units
DH 1B	General and Oral Pathology	3
DH 2	Dental Materials	
DH 5A	Clinical Dental Hygiene I	2.5
DH 6A	Medical Emergencies in the Dental Office	1
DH 8A	Patient Management	2
DH 11	Pain Management	4
DH 12	Clinical Seminar Topics I	1
Second Year – F	First Semester	Units
DH 1C	Periodontology	2
DH 5B	Clinical Dental Hygiene II	
DH 6B	Pharmacology	
DH 7A	Community Dental Health I	
DH 13	Clinical Seminar Topics II	
Second Year – S	Second Semester	Units
DH 1D	Applied Specialties	1.5
DH 3B	Dental Specialties	
DH 5C	Clinical Dental Hygiene III	
DH 7B	Community Dental Health II	2
DH 8B	Practice and Financial Management	
DH 9	Nutrition in Dentistry	1
DH 14	Clinical Seminar Topics III	1
		Total 53

# **DEVELOPMENTAL SERVICES**

# # ADAPTIVE ORNAMENTAL HORTICULTURE SKILLS - MAJOR #1060

program correction, Fall 2011

The adaptive ornamental horticulture skills program is designed to provide students with disabilities both educational and vocational opportunities. A certificate will not only validate participation in the program, but it will also enhance the opportunities to secure gainful employment.

# Certificate

# **Student Learning Outcomes:**

1. Discuss potential employment opportunities based on their educational and horticultural skills.

First Year - Firs	t Semester	Units
DEVSER 262	Group Interaction for Students with Disabilities	2
DEVSER 275	Horticulture Skills I	2
First Year - Sec	ond Semester	Units
DEVSER 262	Group Interaction for Students with Disabilities	2
DEVSER 276	Horticulture Skills II	2
Second Year - F	First Semester	Units
DEVSER 282	Greenhouse Workforce Prep	3
Second Year - S	Second Semester	Units
DEVSER 282	Greenhouse Workforce Prep	
		Total 14

# # CAREER READINESS - MAJOR #7010

new program, Spring 2020

The Career Readiness Certificate Program is designed to provide students with the opportunity to enhance their education while focusing on an environment which will encourage job awareness. This certificate will prepare students to enter the workforce through career exploration and planning, interview preparation, and communication and workplace skills development. This certificate will enhance employment awareness of each student.

# Certificate

## **Student Learning Outcomes:**

- Describe potential employment opportunities based on their educational and vocational experiences.
- 2. Demonstrate basic skills and strategies needed to plan for a potential career, develop job search skills.
- 3. Demonstrate time management and organizational skills.

Required Courses		Units
DEVSER 250	Career Awareness	4
DEVSER 252B	Communication Skills and Strategies 2	
DEVSER 260	Job Search, Employment Portfolio,	
	and Interview Development	3
Electives - Sele	ect 1 Course	Units
DEVSER 252A	Communication Skills and Strategies 1	4
DEVSER 262	Group Interaction	
DEVSER 277	Beginning Computer Literacy	
DEVSER 278	Basic Word Processing for Work	
DEVSER 279	Basic Modified Computer Applications	
DEVSER 285	Paragraphs to Essays	
DEVSER 286	Essay Development and College Writing	
	, 1	Total 13.5-15

#### # EFFECTIVE COMMUNICATIONS - MAJOR #5434

new program, Spring 2020

The Communication Skills Certificate Program offers an overview of the methods of communicating. It also trains students to use their communication skills effectively in various situations. This program is designed to enable students to achieve recognition of development in such areas as presentational speaking, problem solving and decision-making, and interpersonal communication. Students will have the knowledge and key skills to communicate effectively using simple, concise and direct language in order to achieve results in their communications with others. This certificate program allows individuals to develop the confidence and clarity in communication to support their career and educational growth.

#### Certificate

#### **Student Learning Outcomes:**

- 1. Demonstrate the ability to handle difficult situations with a flexible, genuine and self-confident approach.
- 2. Demonstrate key skills to communicate effectively using simple, concise, and direct language.
- 3. Demonstrate increased proficiency with the basics of appropriate communication skills.
- 4. Identify appropriate conflict-resolution skills.

Required Cour	ses	Units
DEVSER 252A	Communication Skills and Strategies 1	4
DEVSER 252B		
DEVSER 262	Group Interaction	
Electives - Sel	ect 1 Course	Units
DEVSER 278	Basic Word Processing for Work	3
DEVSER 284	Reading Comprehension 2	4
DEVSER 286	Essay Development and College Writing	2.5
	, ,	Total 13 5-15

# # HIGH TECH ADAPTIVE PROGRAM - MAJOR #7006

revised program, Spring 2020

High Tech Computer Certificate Program is designed to provide students with the educational and vocational opportunities and will also enhance prospects for gainful employment by developing computer skills using Adaptive Technology.

# Certificate

- 1. Describe potential employment opportunities based on their educational and vocational experiences.
- 2. Demonstrate basic Adaptive Computer Concepts.

Required Cours	ses	Units
DEVSER 262	Group Interaction	3
DEVSER 277	Beginning Computer Literacy	4
DEVSER 278	Basic Word Processing for Work	
DEVSER 279	Basic Modified Computer Applications	3
		Total 13

# # ORNAMENTAL HORTICULTURE SKILLS – FORMERLY ADAPTIVE ORNAMENTAL HORTICULTURE SKILLS – MAJOR #1061

revised program, Spring 2020

The Ornamental Horticulture Skills Certificate Program is designed to provide students with disabilities both educational and vocational opportunities. A certificate will not only validate participation in the program, but it will also enhance the opportunities to secure gainful employment.

#### Certificate

## **Student Learning Outcomes:**

1. Discuss potential employment opportunities based on their educational and horticultural skills.

First Year - Firs		Units
	Group Interaction	
DEVSER 275	Horticulture Skills I	2
First Year - Sec	ond Semester	Units
DEVSER 276	Horticulture Skills II	2
Second Year - F	First Semester	Units
	Greenhouse Workforce Prep	
Second Year - S	Second Semester	Units
DEVSER 282	Greenhouse Workforce Prep	3
		Total 13

# SCHOOL TO WORK, CLERICAL - MAJOR #7004

program revised, Spring 2020

The School to Work Clerical Certificate Program is designed to provide students with the opportunity to enhance their education while focusing on an environment which will encourage awareness in the clerical workforce as well as prepare students for mainstream computer classes. This certificate will validate the students' participation in the School to Work objectives of Fresno City College and enhances computer/clerical awareness of each student.

## Certificate

#### **Student Learning Outcomes:**

- 1. Describe potential employment opportunities based on their educational and vocational experiences.
- 2. Demonstrate basic computer literacy skills.

Select 4 Course	es:	Units
DEVSER 262	Group Interaction	3
DEVSER 277	Beginning Computer Literacy	4
DEVSER 278	Basic Word Processing for Work	
DEVSER 279	Basic Modified Computer Applications	3
DEVSER 283	Reading Comprehension 1	4
DEVSER 284	Reading Comprehension 2	4
DEVSER 285	Paragraphs to Essays	
DEVSER 286	Essay Development and College Writing	2.5
DEVSER 291	Strategies for Academic Success	
	•	Total 10-15

# # SCHOOL TO WORK, WORKABILITY - MAJOR #7005

Certificate

deleted program, Spring 2020

# **ELECTRICAL SYSTEMS TECHNOLOGY**

# **ADVANCED PHOTOVOLTAIC TECHNICIAN - MAJOR #8186**

program revised, Spring 2020

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. The student is advised to complete the Electricity Fundamentals 2 certificate prior.

#### **Certificate of Achievement**

#### **Student Learning Outcomes:**

1. Given a customers 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 55A	Digital Concepts	3
EST 57C	Voice and Data Cabling	3
EST 61	Networking Fundamentals	
EST 81	Photovoltaic Systems	3
	,	Total 12

#### BIOMEDICAL EQUIPMENT TECHNICIAN - FORMERLY BIOMEDICAL TECH - MAJOR #6086

program revised, Spring 2020

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. The student is advised to complete the Electricity Fundamentals 2 certificate prior.

# **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.

Required Cour	rses	Units
BIOL 5	Human Biology	4
EST 55A	Digital Concepts	3
EST 57A	Analog Communications	3
EST 57B	Digital Communications	
EST 57C	Voice and Data Cabling	3
EST 60	A+ PC Maintenance and Repair	
EST 61	Networking Fundamentals	
EST 83A	Industrial Robotics- Introduction	
EST 84A	Introduction to Biomedical Electronics	3
		Total 28

# **ELECTRICAL SYSTEMS TECHNOLOGY - MAJOR #8171**

program revised, Spring 2020

Electrical Systems Technology provides an opportunity for students to prepare for employment in the electronics/electrical industry. Specific occupational preparation is provided in the following program. The student is advised to complete the Electricity Fundamentals 2 certificate prior.

# Associate in Science and Certificate of Achievement

- 1. Define and apply various numbering systems (i.e. Binary, hexadecimal and Octal).
- 2. Develop a motor logic control solution using the defined parameters given.
- 3. Demonstrate a comprehension of the basic operation of communication systems for digital signals.
- 4. Design and configure a control application using a PLC and PLC software.
- 5. Specify, install, and calibrate an instrumentation circuit for the solution of a problem.

Required Cours	es	Units
AT 10	Technical Computer Applications	3
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 96D	National Electrical Code-Electrical Safety	

Select a minimum of thirty-eight (38) additional units from		
the following lis	t:	Units
EST 50	Introduction to Electronics	3
EST 55A	Digital Concepts	3
EST 55B	Facility Automation	3
EST 55C	SCADA Systems	2
EST 56A	Wiring Methods	3
EST 56B	Motor Controls	3
EST 56C	Industrial Electronics	3
EST 57A	Analog Communications	3
EST 57B	Digital Communications	3
EST 57C	Voice and Data Cabling	3
EST 58	Programmable Logic Controllers	3
EST 59	Instrumentation Systems	
EST 60	A+ PC Maintenance and Repair	3
EST 80	Introduction to Photovoltaics	3
EST 81	Photovoltaic Systems	3
EST 82A	Introduction to Robotics	
EST 82B	Robotic Applications	3.5
EST 83A	Industrial Robotics- Introduction	
EST 83B	Robotics, Industrial - Advanced Application	3
		Total 55

# FACILITY CONTROLS – FORMERLY FACILITY CONTROL TECHNICIAN & AUTOMATION CONTROL TECHNICIAN – MAJOR #8189

program revised, Spring 2020

Training is designed to prepare the student for employment as a building automation technician. The student is advised to complete the Electricity Fundamentals 2 certificate prior.

# **Certificate of Achievement**

# **Student Learning Outcomes:**

- 1. Develop and implement a strategy utilizing HVAC controls.
- 2. Specify, install, and calibrate an instrumentation circuit for the solution of a problem.
- 3. Design and implement a security strategy utilizing door access controls.

Required Course	es	Units
EST 55A	Digital Concepts	3
EST 55B	Facility Automation	3
EST 57C	Voice and Data Cabling	3
EST 59	Instrumentation Systems	
	-	Total 12

# INDUSTRIAL AUTOMATION 1 – FORMERLY INDUSTRIAL CONTROL TECHNICIAN & CONTROL SYSTEMS – MAJOR #8188

program revised, Spring 2020

Training in this specialized field is designed to prepare the student for employment as a control and instrument technician. The student is advised to complete the Electricity Fundamentals 2 certificate prior.

#### **Certificate of Achievement**

- 1. Create a digital logic circuit using appropriate logic gates.
- 2. Contrast the different parts of a Supervisory Control and Data Acquisition System (SCADA).
- 3. Understand the purpose, functions, and operations of a PLC.
- 4. Specify, install, and calibrate an instrumentation circuit for the solution of a problem.

Required Courses		Units
EST 55C	SCADA Systems	2
EST 56B	Motor Controls	3
EST 57C	Voice and Data Cabling	3
EST 58	Programmable Logic Controllers	3
EST 59	Instrumentation Systems	
	•	Total 14

#### # INDUSTRIAL MAINTENANCE TECHNICIAN - MAJOR #8190

new program, Summer 2019

An industrial maintenance technician performs installation, repair and maintenance of commercial or industrial machinery in buildings, plants or factory setting, to ensure the machines' proper functionality.

#### **Certificate of Achievement**

## **Student Learning Outcomes:**

- 1. Perform basic setups on the drill press, milling machines or engine lathes in a safe manner and to industry practices.
- 2. Demonstrate the ability to inspect fluid and pneumatic system components for proper operation and identify problems and the means to correct.
- 3. Given a SMAW and GMAW power source, students will be able to properly set up and adjust the machine to make a successful weld.

Required Cou	rses	Units
AT 19	Work Experience (Cooperative), Occupational	3
AT 140	Introduction to Machine Shop	3
AT 150	Pneumatic & Hydraulic Systems	3
AT 160	Mechanical Power Drive Systems	
EST 51	Direct Current Fundamentals of Electronics	3
EST 53	Lab Safety Practices	2
EST 56B	Motor Controls	
EST 58	Programmable Logic Controllers	3
WELD 2A	Introduction to Welding Technology	
	<b>5 0</b> ,	Total 29

# LOW VOLTAGE – FORMERLY COMMUNICATION TECHNICIAN & COMMUNICATIONS TECHNOLOGY - MAJOR #8187 program revised, Spring 2020

Training is designed to prepare the student for employment as a communication technician. The student is advised to complete the Electricity Fundamentals 2 certificate prior.

#### **Certificate of Achievement**

#### **Student Learning Outcomes:**

- 1. Design and implement various communication strategies that use radios to allow industrial controllers to communicate and share data.
- 2. Construct and analyze electronic circuits relating to digital to analog converters, analog to digital converters and time division multiplexing.
- Design and implement a network topology for a solution to a proposed communication problem.

Required Co	ourses	Units
EST 57A	Analog Communications	3
EST 57B	Digital Communications	3
EST 57C	Voice and Data Cabling	3
EST 61	Networking Fundamentals	
	•	Total 12

# FIRE TECHNOLOGY

#### **BASIC FIRE ACADEMY - MAJOR #883B**

program revised, Spring 2020

The Basic Fire Academy program offers curriculum to prepare students with the knowledge and skills necessary to become a State of California Certified Firefighter 1. Employment opportunities are found in various branches of government and the private sector. The academy is offered in two different formats; an intensive 40 hours per week program or an extended 24 hours per week night program. PROGRAM REQUIREMENTS To qualify for the program, applicants must: Be 18 years of age or have a high school diploma or G.E.D. Applicant with prior college work must be on good academic and progress standing on all college work attempted. Have successfully completed minimum of Public Safety First Aid and CPR (CA Health and Safety Code 1797.182) Possess a valid California driver's license. Provide proof of a clear physical examination including an electrocardiogram printout (EKG). Contact the Fire Academy Coordinator.

# **Certificate of Achievement**

- 1. Demonstrate specific skills, knowledge and abilities in routine and emergency firefighting operations.
- 2. Manipulate, inspect, and maintain firefighting and rescue equipment.
- 3. Display the personal and professional attitude and discipline necessary for employment in the firefighting profession.

Required Cours	ses	Units
FIRET 130A	Basic Fire Academy - Part 1	14.5
FIRET 130B	Basic Fire Academy - Part 2	14.5
	·	Total 29

#### FIRE TECHNOLOGY - MAJOR #883A

program revised, Spring 2020

This program is designed to provide the student with updated skills and knowledge necessary to complete and successfully apply for fire service careers. The curriculum serves as an in-service program as well as a pre-employment program for students seeking employment or advancement in the profession of fire fighting and fire technology.

#### **Associate in Science**

Required Courses

#### **Student Learning Outcomes:**

Given a typical type of fire department, describe the organizational structure and all of the staff functions within it.

Units

2. Given a specific function of the fire service, describe the purpose of a paid and volunteer firefighter.

Required Cours	163	Ullita
FIRET 1	Fire Protection Organization	3
FIRET 2	Fire Prevention Technology	3
FIRET 3	Fire Protection Equipment and Systems	3
FIRET 4	Building Construction for Fire Protection	3
FIRET 5	Fire Behavior and Combustion	3
FIRET 14	Principles of Fire & Emergency Services Safety & Survival	13
Course Options		Units
FIRET 8	Fire Hydraulics	
FIRET 9	Fire Fighting Practices	
FIRET 22A	Firefighter II Part A	2
FIRET 22B	Firefighter II Part B	3
FIRET 130A	Basic Fire Academy - Part 1	6
FIRET 130B	Basic Fire Academy - Part 2	6
FIRET 131	Emergency Medical Technician I	9.5
FIRET 135	Emergency Medical Technician-Paramedic-Field Internshi	p9
	Total 23	-36.5

FIRET 130A and 130B each carries a value of up to 14.5 units; however, only 6 units can be applied to the associate in science degree and certificate of achievement.

FIRET 135 is the final course of three required to successfully complete the paramedic program.

## # FIRE TECHNOLOGY - MAJOR #883A

program correction, Fall 2018

This program is designed to provide the student with updated skills and knowledge necessary to complete and successfully apply for fire service careers. The curriculum serves as an in-service program as well as a pre-employment program for students seeking employment or advancement in the profession of fire fighting and fire technology.

#### **Certificate of Achievement**

- 1. Given a typical type of fire department, describe the organizational structure and all of the staff functions within it.
- 2. Given a specific function of the fire service, describe the purpose of a paid and volunteer firefighter.

Required Cours	es	Units
AT 10	Technical Computer Applications	3
AT 130	Industrial Mathematics, or	
MATH 103	Foundations of Algebra	3-5
FIRET 1	Fire Protection Organization	3
FIRET 2	Fire Prevention Technology	3
FIRET 3	Fire Protection Equipment and Systems	3
FIRET 4	Building Construction for Fire Protection	3
FIRET 5	Fire Behavior and Combustion	3
FIRET 14	Principles of Fire & Emergency Services Safety & Surviva	al 3
PHYSC 11	Introductory Physical Science	3

<b>Course Options</b>	: Select 12 Units	Units
FIRET 8	Fire Hydraulics	3
FIRET 9	Fire Fighting Practices	3
FIRET 130A	Basic Fire Academy - Part 1	6
FIRET 131	Emergency Medical Technician I	
FIRET 135	Emergency Medical Technician-Paramedic-Field Interns	
	Tot	al 30 <u>-</u> 41

FIRET 130A carries a value of up to 13 units; however, only 6 units can be applied to the associate in science degree and certificate of achievement.

FIRET 135 is the final course of three required to successfully complete the paramedic program.

#### FIREFIGHTER II - MAJOR #8835

program revised, Spring 2020

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

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 Cour	ses	Units
FIRET 22A	Firefighter II Part A	2
FIRET 22B	Firefighter II Part B	3
	-	Total 5

# FOOD AND NUTRITION

# # NUTRITION AND DIETETICS FOR TRANSFER - MAJOR #5683

program correction, Fall 2019

The Associate in Science in Nutrition and Dietetics for Transfer is designed for students who plan to transfer to a CSU campus to complete a bachelor's degree in nutrition and dietetics. To earn the Associates in Science in Nutrition and Dietetics for Transfer degree, students must complete 60 units that are eligible for transfer to the California State University, including both of the following: the Intersegmental General Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirements and a minimum of 18 semester units in a major or an area of emphasis, as determined by the community college district. Obtainment of a minimum grade point average of 2.0. ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. For more information on CSU admission and transfer requirements consult with a counselor. Upon completion of the Associates in Science in Nutrition and Dietetics for Transfer the students will be able to demonstrate knowledge of the relationship of nutrients and lifestyle factors and the associated risk of chronic disease. Students will demonstrate knowledge of physiological processes such as digestion, absorption, transport and metabolism of nutrients. Students will recognize and separate scientifically supported information from misinformation. Students will identify ways in which social factors influence food related choices, practices, and beliefs.

# Associate in Science

- 1. Demonstrate knowledge of the relationship of nutrients and lifestyle factors and the associated risk of chronic disease.
- 2. Demonstrate knowledge of physiological processes such as digestion, absorption, transport and metabolism of nutrients.
- 3. Recognize and separate scientifically supported information from misinformation.
- Identify ways in which social factors influence food related choices, practices and beliefs.

Required Courses		Units
BIOL 31	Microbiology	5
CHEM 1A	General Chemistry	
CHEM 1B	General Chemistry and Qualitative Analysis	
FN 40	Nutrition	3
PSY 2	General Psychology	3

List A: Select at	least one course from the list below:	Units
BIOL 20	Human Anatomy	4
BIOL 21A BIOL 21B	Human Anatomy & Physiology I, and Human Anatomy & Physiology II	
BIOL 22	Human Physiology	
CHEM 28A CHEM 29A	Organic Chemistry I, and Organic Chemistry Laboratory I	
DS 23 MATH 11	Business Statistics, or Elementary Statistics, or	
MATH/PSY 42	•	3-4
List B: Select or	ne course: Principles of Food Preparation	Units 3
	· ·······	Total 27-33

# **HEALTH INFORMATION TECHNOLOGY**

# # HEALTH INFORMATION TECHNOLOGY: REVENUE MANAGEMENT – FORMERLY HEALTH INFORMAITON TECHNOLOGY AND MEDICAL RECORD TECHNOLOGY – MAJOR #4622

revised program, Spring 2020

The Health Information Technology (HIT) Program prepares students for a career working in health information management in a variety of healthcare settings. HIT professionals perform the essential functions of acquiring, analyzing, reporting, and protecting digital and traditional medical information. Through the use of technology and expertise in data integrity, confidentiality, and security, their work contributes to quality patient care. The curriculum provides a specialized emphasis in revenue management for a career in coding, auditing, and clinical documentation improvement, while also providing foundational knowledge in general health information management for job responsibilities that may include data collection, documentation analysis, quality improvement, release of information, or supervision. The HIT Program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM). Successful completion of the Health Information Technology Program qualifies the graduate for an associate in science degree and eligibility to take the Registered Health Information Technician (RHIT) exam administered by the American Health Information Management Association (AHIMA).

- 1. The associate degree requires the completion of the program requirements with a 2.0 or higher GPA.
- 2. Biology 20 and 22, Biology 21A and 21B, or 24 may be substituted for Biology 5.
- 3. In addition to the courses listed above, all requirements for the Associate Degree in Science must be met. Refer to the Fresno City College Catalog section on certificate and degree and meet with a counselor for advisement.
- 4. Academic credit earned in accredited institutions of higher education or AHIMA approved schools of Health Information Technology for comparable courses will be accepted for transfer. Equivalency will be determined on the basis of catalog description, course outline, course comparison, and hour distribution. Credit by examination, when acceptable, may be required when equivalency cannot be determined.

#### **Associate in Science**

- 1. Apply the knowledge and skills for health information management according to the entry-level competencies of the American Health Information Management Association HIM Curriculum.
- 2. Pass the Registered Health Information Technician examination.

First Semester - Fall		Units
BIOL 5	Human Biology, or	
BIOL 55	Introduction to the Biology of Humans	3-4
CIT 15	Computer Concepts	
HIT 1	Introduction to Health Information Management	3
HIT 10	Medical Terminology	
MATH 11	Elementary Statistics	4
Second Semester - Spring		Units
HIT 2	Legal Aspects of Health Information	3
HIT 4	Disease Process	3
HIT 5	ICD Coding: Diagnoses	3
HIT 12	Health Information in Alternative Settings	
MA 2	Pharmacology	3

Third Semeste	er - Fall	Units
HIT 3	Quality Improvement	2
HIT 6	ICD Coding: Procedures	3
HIT 9	Hospital and Health Statistics	2
HIT 14	HIM Technology and Systems	
Fourth Semes	eter - Spring	Units
HIT 7	Directed Practice	3
HIT 8	Health Information Management and Supervision .	3
HIT 11	CPT Coding	
HIT 16	Healthcare Reimbursement	
		Total 51-52

#### # MEDICAL CODING - MAJOR #4627

revised program, Spring 2020

The medical coding certificate program prepares students for a position as a coder in a hospital, physician office, clinic, long-term care facility, and other healthcare settings. Coders review patient health information, analyze and extract data, and ensure appropriate codes are assigned for internal and external data reporting, billing, research, and regulatory compliance.

Notes: Biology 20 and 22, or Biology 21A and 21B, or Biology 24 may be substituted for Biology 5.

#### **Certificate of Achievement**

# **Student Learning Outcomes:**

- 1. Evaluate the content of patient health records and assign diagnostic and procedure codes following regulatory guidelines.
- 2. Use computer technology and applications as a coding professional would in the regular course of business for HIM functions such as the electronic health record, encoding, abstracting, billing, and revenue management.

First Semester		Units
BIOL 5 BIOL 55	Human Biology, <i>or</i> Introduction to the Biology of Humans	
HIT 1	Introduction to Health Information Management	
HIT 10	Medical Terminology	
Second Semest	er	Units
CIT 15	Computer Concepts	3
HIT 4	Disease Process	3
HIT 5	ICD Coding: Diagnoses	3
<b>Third Semester</b>		Units
Third Semester HIT 6	ICD Coding: Procedures	
		3
HIT 6	ICD Coding: Procedures HIM Technology and Systems Pharmacology	3
HIT 6 HIT 14	HIM Technology and Systems Pharmacology	3
HIT 6 HIT 14 MA 2	HIM Technology and SystemsPharmacology	33 Units
HIT 6 HIT 14 MA 2 Fourth Semeste	HIM Technology and Systems Pharmacology  r  CPT Coding	3 33 Units
HIT 6 HIT 14 MA 2 Fourth Semeste HIT 11	HIM Technology and SystemsPharmacology	3 33 Units3

# **HEATING, VENTILATION, AND AIR CONDITIONING**

HVAC TECHNOLOGY I – FORMERLY AIR CONDITIONING, COMMERCIAL AIR CONDITIONING, HEATING, AND DUCT SYSTEMS – MAJOR #8041

revised program, Spring 2020

Students who successfully complete the HVAC Technology I program are equipped with skills for entry-level employment as HVAC (Heating, Ventilation, and Air Conditioning) maintenance, diagnostic, and installation technicians. The curriculum incorporates cognitive and hands-on assignments that develop a fundamental understanding of the installation, operation, and troubleshooting of HVAC equipment and air distribution systems.

# **Certificate of Achievement**

- 1. Analyze air, refrigerant, fuel, and electrical measurements in the diagnosis and repair of heating and cooling equipment.
- 2. 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	
HVAC 53	HVAC Comfort Troubleshooting	
HVAC 54	HVAC System Processes	
	•	Total 28

# HVAC TECHNOLOGY II – FORMERLY HVAC TECHNOLOGY III and AIR CONDITIONING – MAJOR #8042 revised program. Spring 2020

Students who successfully complete the HVAC Technology III program are equipped with skills for employment as HVAC (Heating, Ventilation, and Air Conditioning) maintenance, diagnostic, and installation technicians. The curriculum incorporates cognitive and hands-on assignments that develop a fundamental understanding of the installation, operation, and troubleshooting of HVAC equipment and air distribution systems. Additional emphasis on communication skills and general education prepare students for leadership roles once several years of work experience have been achieved.

#### Associate in Science

# **Student Learning Outcomes:**

- 1. Analyze and strategically document air, refrigerant, fuel, and electrical measurements in the diagnosis and repair of heating and cooling equipment.
- 2. Demonstrate HVAC skills through the achievement of applicable industry certification.
- 3. Prepare for a leadership role in the HVAC industry upon achievement of work experience.

Required Co	urses	Units
HVAC 50	HVAC Introduction	2
HVAC 51	HVAC Comfort Systems	6.5
HVAC 52	HVAC System Components	
HVAC 53	HVAC Comfort Troubleshooting	6.5
HVAC 54	HVAC System Processes	
	•	Total 28

#### **HVAC TECHNOLOGY II - FORMERLY AIR CONDITIONING - MAJOR #8042**

## **Certificate of Achievement**

program deleted, Spring 2020

# **HVAC WIRELESS CONTROL I - MAJOR #8043**

revised program, Spring 2020

Digital controls are perhaps the most important component of a modern HVAC system. They refine occupant comfort while communicating with other networked electro-mechanical building systems for optimum efficiency. The successful HVAC Wireless Control certificate holder has mastered basic direct digital control principles, and has practiced their knowledge in the study, programming and commissioning of wireless communicating control systems.

## **Certificate of Achievement**

# **Student Learning Outcomes:**

- 1. Identify the appropriate application for binary and/or analog, inputs and outputs.
- 2. Program and commission a wireless thermostatic control.
- 3. Configure and manage a network of wireless communicating thermostats.

Required Co	urses	Units
AT 10	Technical Computer Applications	3
HVAC 54	HVAC System Processes	6.5
		Total 9.5

# **HONORS PROGRAM**

# # HONORS PROGRAM COMMENDATION - MAJOR #5332

program correction, Fall 2018

A Leon S. Peters Commendation Certificate in Honors will be awarded to Honors students who successfully complete a minimum of 9 units of Honors courses, including 1 colloquium unit, with an overall GPA of 3.2 or better.

# Certificate

#### **Student Learning Outcome:**

Because this is part of a comprehensive general education program, students who complete the Honors Certificate of Commendation program will gain outcomes from among the following:

- 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.

<b>Elective Course</b>	s: Select a minimum of 8 units	Units
ANTHRO 2H	Honors Cultural Anthropology	3
ART 5H	Honors Art History Ancient to Medieval, or	
ART 6H	Honors Art History Renaissance to Modern	3
BIOL 11AH	Honors Biology for Science Majors I	5
COMM 8H	Honors Group Communication	3
ECON 40H	Honors Introduction to Microeconomics, or	
ECON 50H	Honors Introduction to Macroeconomics	
ENGL 1AH	Honors Reading and Composition	4
ENGL 3H	Honors Critical Reading & Writing, or	
PHIL 2H	Honors Critical Reasoning and Analytic Writing	
HIST 12H	Honors History of the United States since 1877	
MATH 11H	Honors Elementary Statistics	
PHIL 1AH	Honors Theories of Knowledge and Reality	3
PHIL 1CH	Honors Ethics	
POLSCI 2H	Honors American Government	
PSY 2H	Honors General Psychology	
SOC 1AH	Honors Introduction to Sociology	3
Colloquia: Selec	ct a minimum of 1 unit	Units
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
		Total 9

# **HUMAN SERVICES**

# # HUMAN SERVICES: PRE-SOCIAL WORK OPTION - MAJOR #7633

program revision, Spring 2020

This degree is designed to prepare students for entry-level employment in a social service setting or to transfer as a junior to a baccalaureate degree program in Social Work. This degree is for the person who has a strong desire to help people who traditionally have been underrepresented within the larger society and require interventions and assistance in increasing control of their personal destinies. These introductory courses will give the student a good fundamental working knowledge of the social services system. The program offers course work leading to a certificate of achievement and an associate in science degree in Human Services: Pre-Social Work. Students must take the required courses listed in the Core (see below), and select 12 units from the list of options.

# **Associate in Science**

- 1. Demonstrate a fundamental working knowledge of the social services system.
- 2. Be prepared for entry-level employment in a social service setting.
- 3. Understand who are the underrepresented within our society and what might be appropriate interventions to assist them
- 4. Apply the multiple perspectives of a broad liberal arts foundation to their analysis of social problems.

Required Core C	Courses Technical Computer Applications, <i>or</i>	Units
BT 1	Computer Document Processing I, or	
CIT 12	Computer Literacy, or	
CIT 15	Computer Concepts	
HS/SOC 10	Introduction to Aging Studies	3
HS 19A	Work Experience (Cooperative), Occupational	3
HS 20	Introduction to Social Welfare	
HS 24	Fundamentals of Interviewing and Counseling	
HS 30	Group and Community Social Services	3
<b>Course Options</b>	: Select 12 Units	Units
AFRAM 1	Introduction to African American Studies	
AFRAM 2	African American Cultural Adaptation	3
AMIND 31	American Indian Culture	
AMIND 34	The American Indian in Contemporary Society	3
AMST 10	American Pluralism: A Search for Common	
	Ground in a Multicultural Society	3
ANTHRO 2/2H	Cultural Anthropology, or	_
4 O 4 1 4 E D 6 E	Honors Cultural Anthropology	3
ASAMER 25	Asian American Social Issues	3
ASL 1 CHDEV 5	Beginning American Sign Language Parent Education	4
CHDEV 30	Child, Family and Community, <i>or</i>	
SOC 31	The Child in Society: A Social Problems Approach	3
CHDEV/PSY 38	Lifespan Development	3
CHDEV/PSY 39	Child Growth and Development	
CLS 11	Introduction to Chicano-Latino Studies	
CLS 13	Politics and the Chicano-Latino Community	
COMM 1	Introduction to Public Speaking, or	
COMM 4	Persuasion, or	
COMM 8	Group Communication	3
COMM 25	Argumentation, <i>or</i>	
PHIL 6	Symbolic Logic	3
ECON 25	Introduction to Economics, or	
ECON 40/40H	Introduction to Microeconomics, or	
ECON FO/FOLL	Honors Introduction to Microeconomics, or	
ECON 50/50H	Introduction to Macroeconomics, or Honors Introduction to Macroeconomics	2
FN 35	Nutrition and Health. or	
FN/WSTS 43	Women's Nutrition	2-3
HMONG 1	Beginning Hmong	
HS/WSTS 25	Assertiveness Training	
HS 44	Drug Use: Physical and Psychological Effects	
PHIL 1A	Theories of Knowledge and Reality, or	
PHIL 1C	Ethics	3
SOC 1A/1AH	Introduction to Sociology, or	
	Honors Introduction to Sociology	
SOC/WSTS 5	Sociology of Rape	3
SOC/WSTS 7	Domestic Violence: Abuse Within the Family	3
SOC 32	Introduction to Marriage and Family	3
SPAN 1	Beginning Spanish	5
WSTS 10	Changing Roles of Women	
		Total 30

# # HUMAN SERVICES: PRE-SOCIAL WORK OPTION - MAJOR #7633

program correction, Fall 2019

This certificate of achievement is designed to prepare students for entry-level employment in a social service setting or with additional general education courses, to transfer as a junior to a baccalaureate degree program in Social Work. This program is for the person who has a strong desire to help people who traditionally have been underrepresented within the larger society and require interventions and assistance in increasing control of their personal destinies. These introductory courses will give the student a good fundamental working knowledge of the social services system. The certificate of achievement offers course work leading to a certificate of achievement in Human Services: Pre- Social Work Option. Students must take the required courses listed in the Core (see below), and select 12 units from the list of options.

# **Certificate of Achievement**

- 1. Demonstrate a fundamental working knowledge of the social services system.
- 2. Be prepared for entry-level employment in a social service setting.
- 3. Understand who are the underrepresented within our society and what might be appropriate interventions to assist them.
- 4. Apply the multiple perspectives of a broad liberal arts foundation to their analysis of social problems.

Required Core C	Courses Units
AT 10	Technical Computer Applications, or
BT 1	Computer Document Processing I, or
CIT 12	Computer Literacy, <i>or</i>
CIT 15	Computer Concepts
HS/SOC 10	Introduction to Aging Studies
HS 19A	Work Experience (Cooperative), Occupational
HS 20 HS 24	Introduction to Social Welfare
HS 30	Group and Community Social Services
113 30	Group and Community Social Services
Course Options	: Select 12 Units Units
AFRAM 1	Introduction to African American Studies
AFRAM 2	African American Cultural Adaptation3
AMIND 31	American Indian Culture3
AMIND 34	The American Indian in Contemporary Society3
AMST 10	American Pluralism: A Search for Common
	Ground in a Multicultural Society3
ANTHRO 2/2H	Cultural Anthropology, or
	Honors Cultural Anthropology
ASAMER 25	Asian American Social Issues
ASL 1 CHDEV 5	Beginning American Sign Language
CHDEV 30	Child, Family and Community, or
SOC 31	The Child in Society: A Social Problems Approach
CHDEV/PSY 38	Lifespan Development
CHDEV/PSY 39	Child Growth and Development
CLS 11	Introduction to Chicano-Latino Studies
CLS 13	Politics and the Chicano-Latino Community3
COMM 1	Introduction to Public Speaking, or
	Persuasion, or
COMM 8	Group Communication3
COMM 25	Argumentation, or
PHIL 6	Symbolic Logic
ECON 25	Introduction to Economics, or
ECON 40/40H	Introduction to Microeconomics, or
ECON 50/50H	Honors Introduction to Microeconomics, or Introduction to Macroeconomics, or
LOON 30/3011	Honors Introduction to Macroeconomics
FN 35	Nutrition and Health. or
FN/WSTS 43	Women's Nutrition2-3
HMONG 1	Beginning Hmong5
HS/WSTS 25	Assertiveness Training2
HS 44	Drug Use: Physical and Psychological Effects3
PHIL 1A/1AH	Theories of Knowledge and Reality, <i>or</i>
	Honors Theories of Knowledge and Reality, or
PHIL 1C/1CH	Ethics, or
000 4 4 /4 4 1 1	Honors Ethics
SOC 1A/1AH	Introduction to Sociology, or
SOC/WSTS 5	Honors Introduction to Sociology
SOC/WSTS 5	Sociology of Rape
SOC 32	Introduction to Marriage and Family
SPAN 1	Beginning Spanish5
WSTS 10	Changing Roles of Women
-	Total 30-31

#### # HUMAN SERVICES: PRE-SOCIAL WORK OPTION - MAJOR #7633

program revision, Spring 2020

This certificate of achievement is designed to prepare students for entry-level employment in a social service setting or with additional general education courses, to transfer as a junior to a baccalaureate degree program in Social Work. This program is for the person who has a strong desire to help people who traditionally have been underrepresented within the larger society and require interventions and assistance in increasing control of their personal destinies. These introductory courses will give the student a good fundamental working knowledge of the social services system. The certificate of achievement offers course work leading to a certificate of achievement in Human Services: Pre- Social Work Option. Students must take the required courses listed in the Core (see below), and select 12 units from the list of options.

#### **Certificate of Achievement**

- Demonstrate a fundamental working knowledge of the social services system.
- 2. Be prepared for entry-level employment in a social service setting.
- 3. Understand who are the underrepresented within our society and what might be appropriate interventions to assist them.
- 4. Apply the multiple perspectives of a broad liberal arts foundation to their analysis of social problems.

Required Core C		Units
AT 10	Technical Computer Applications, or	
BT 1	Computer Document Processing I, or	
CIT 12	Computer Literacy, or	
CIT 15	Computer Concepts	
HS/SOC 10	Introduction to Aging Studies	
HS 19A	Work Experience (Cooperative), Occupational	3
HS 20	Introduction to Social Welfare	
HS 24	Fundamentals of Interviewing and Counseling	
HS 30	Group and Community Social Services	3
Course Options	: Select 12 Units	Units
AFRAM 1	Introduction to African American Studies	
AFRAM 2	African American Cultural Adaptation	3
AMIND 31	American Indian Culture	3
AMIND 34	The American Indian in Contemporary Society	3
AMST 10	American Pluralism: A Search for Common	
	Ground in a Multicultural Society	3
ANTHRO 2/2H	Cultural Anthropology, or	
	Honors Cultural Anthropology	3
ASAMER 25	Asian American Social Issues	3
ASL 1	Beginning American Sign Language	
CHDEV 5	Parent Education	
CHDEV 30	Child, Family and Community, or	
SOC 31	The Child in Society: A Social Problems Approach	3
CHDEV/PSY 38	Lifespan Development	3
CHDEV/PSY 39	Child Growth and Development	
CLS 11	Introduction to Chicano-Latino Studies	
CLS 13	Politics and the Chicano-Latino Community	
COMM 1	Introduction to Public Speaking, or	
COMM 4	Persuasion, <i>or</i>	
COMM 8	Group Communication	3
COMM 25	Argumentation, <i>or</i>	
PHIL 6	Symbolic Logic	3
ECON 25	Introduction to Economics, <i>or</i>	
ECON 40/40H	Introduction to Microeconomics, or	
	Honors Introduction to Microeconomics, or	
ECON 50/50H	Introduction to Macroeconomics, <i>or</i>	
	Honors Introduction to Macroeconomics	3
FN 35	Nutrition and Health, or	
FN/WSTS 43	Women's Nutrition	2-3
HMONG 1	Beginning Hmong	
HS/WSTS 25	Assertiveness Training	
HS 44	Drug Use: Physical and Psychological Effects	
	J , , , , , , , , , , , , , , , , , , ,	

PHIL 1A/1AH	Theories of Knowledge and Reality, or	
	Honors Theories of Knowledge and Reality, or	
PHIL 1C/1CH	Ethics, or	
	Honors Ethics	3
SOC 1A/1AH	Introduction to Sociology, or	
	Honors Introduction to Sociology	3
SOC/WSTS 5	Sociology of Rape	3
SOC/WSTS 7	Domestic Violence: Abuse Within the Family	
SOC 32	Introduction to Marriage and Family	3
SPAN 1	Beginning Spanish	5
WSTS 10	Changing Roles of Women	
		Total 30

#### # SOCIAL WORK AND HUMAN SERVICES FOR TRANSFER - MAJOR #7635

new program, Fall 2019

An Associate in Arts in Social Work and Human Services for Transfer degree, is designed for students who plan to complete a Bachelor's degree in a similar major at a CSU campus. The degree will acquaint students with the fundamentals of the human services system and the profession of Social Work, including introduction to the theories, principles, and values on which human services are offered and social work is practiced in the United States. To earn the Associate of Arts in Social Work/Human Services 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 necessary to complete the transfer degree. Students should consult with a knowledgeable academic counselor for more information on transfer requirements and university admission.

#### **Associate in Arts**

- 1. Demonstrate a fundamental working knowledge of the social services system and social work as a profession.
- 2. Be prepared for entry level employment in a social services setting.
- 3. Apply the multiple perspectives of a broad liberal arts foundation to understanding and responding to human needs and social problems.

Required Core C	Courses	Units
BIOL 20	Human Anatomy, <i>or</i>	
BIOL 22	Human Physiology <i>, or</i>	
BIOL 21A	Human Anatomy & Physiology I, and	
BIOL 21B	Human Anatomy & Physiology II	4-9
ECON 40/40H	Introduction to Microeconomics, or	
	Honors Introduction to Microeconomics, or	
ECON 50/50H	Introduction to Macroeconomics, or	
	Honors Introduction to Macroeconomics	
HS 19A	Work Experience (Cooperative), Occupational	
HS 20	Introduction to Social Welfare	3
PSY 2/2H	General Psychology, or	
	Honors General Psychology	3
MATH 11	Elementary Statistics, or	
MATH 42	Statistics for the Behavioral Sciences	4
SOC 1A/1AH	Introduction to Sociology, or	
	Honors Introduction to Sociology	3
List A: Select tw	vo (2) courses.	Units
ANTHRO 2/2H	Cultural Anthropology, or	
	Honors Cultural Anthropology	3
CHDEV 30	Child, Family and Community	3
CHDEV/PSY 38	Lifespan Development	
CHDEV/PSY 39	Child Growth and Development	3
CRIM 1	Introduction to Criminology	3
ENGL 3/3H	Critical Reading & Writing, or	
	Honors Critical Reading & Writing	3
PSY 16	Abnormal Psychology	3
SOC 1B	Critical Thinking about Social Problems	
SOC 2	American Minority Groups	3
		Total 29-34

#### **KINESIOLOGY**

#### **KINESIOLOGY - MAJOR #4555**

revised program, Spring 2020

Kinesiology studies the function and performance of the human body though the sciences of anatomy, physiology, biomechanics, and psychology. With a diverse curriculum, students can choose from courses such as anatomy and physiology, health and wellness, nutrition, sports psychology, athletic training, and coaching. Students will be presented with both theoretical and practical applications of the science of kinesiology, as it pertains to exercise, sport, and physical activity. Coursework in this field is intended to improve students' knowledge about health, fitness, and lifetime wellness as they relate to personal and community well-being. A degree in kinesiology has become a valuable asset in pursuing relevant and rewarding professional careers.

#### **Associate in Science**

- 1. After completion of this program, the student will have the basic knowledge of the general foundation of kinesiology.
- 2. This course of study provides the student a background to pursue a career in the field of kinesiology.

Required Cour		nits
HLTH 1	Contemporary Health Issues	
HLTH 2	First Aid and Safety	
PE 62	Introduction To Kinesiology	3
Minimum of 6		nits
BIOL 5	Human Biology	4
BIOL 20	Human Anatomy <i>, or</i>	
BIOL 21A	Human Anatomy & Physiology I	4
BIOL 22	Human Physiology <i>, or</i>	
BIOL 21B	Human Anatomy & Physiology II	5
FN 35	Nutrition and Health	
FN 41	Sports Nutrition	
PE 20	Athletic Training	
PE 23	Lifeguard Training	
PE 24	Sports Officiating	
PE 26	Sports Psychology	
PE 28	Foundations of Coaching	3
Eitness/Mellne	ess Activities: Minimum of one course (1 unit)	.:40
DANCE 9	Dance Conditioning	nits 1
DANCE 10A	Beginning Modern Dance Technique	
PE 6	Fitness and Health	
PE 8	Basic Self Defense	
PE 9	Circuit Training	
PE 15A	Weight Training (Women)	
PE 15B	Weight Training (Men)	1
PE 15C	Weight Training (Coed)	
PE 17	Hatha Yoga	
PE 27	High-Intensity Cardio Interval Training	1
PE 29C	Off-Season Conditioning for Badminton	1
PE 30C	Off-Season Conditioning for Baseball	
PE 31C	Off-Season Conditioning for Basketball	
PE 33C	Off-Season Conditioning for Football	
PE 34C	Off-Season Conditioning for Golf	
PE 36C	Off-Season Conditioning for Soccer	
PE 37C	Off-Season Conditioning for Softball	
PE 38C	Off-Season Conditioning for Tennis	
PE 39C	Off-Season Conditioning for Track and Field	1
PE 40C	Off-Season Conditioning for Volleyball	
PE 41C	Off-Season Conditioning for Men's Wrestling	
PE 42C	Off-Season Conditioning for Water Polo	
PE 43C	Off-Season Conditioning for Swimming & Diving	1
PE 45	Performance Training and Conditioning Techniques for Intercollegiate Athletics	4
PE 70	Fitness Aerobics	
PE 70 PE 72	Spinning for Fitness	
1 - 12	Opining 101 / 101033	'

Individual/D	oual Sports: Minimum one course (1-3 units)	Units
PE 3	Archery	1
PE 4	Badminton	
PE 7	Golf	
PE 12	Swimming	
PE 13	Tennis	
PE 13B	Intermediate Tennis	
PE 29B	Competitive Badminton	3
PE 32B	Competitive Cross Country	3
	Competitive Golf	3
PE 38B	Competitive Tennis	3
PE 39B	Competitive Track and Field	3
PE 41B	Competitive Men's Wrestling	
PE 43B	Competitive Swimming & Diving	3
	s: Minimum one course (1-3 units)	Units
PE 5	Basketball	
PE 14	Volleyball	
PE 30B	Competitive Baseball	
PE 31B	Competitive Basketball	
PE 33B	Competitive Football	
PE 35B	Cheer and Stunt	
PE 36B	Competitive Soccer	
PE 37B	Competitive Softball	
PE 40B	Competitive Volleyball	
PE 42B	Competitive Water Polo	3
PE 71	Soccer	1
		Total 18-25

#### **LAW**

#### LAW, PUBLIC POLICY, AND SOCIETY FOR TRANSFER - MAJOR #8770

new program, Spring 2020

The coursework required to earn an Associate in Arts in Law, Public Policy, and Society for Transfer has been identified as good preparation for law school upon completion of a bachelor's degree. This interdisciplinary area of emphasis emphasizes the development of communication skills, introduces students to the legal field, and prepares students for further study in a variety of majors. Students who opt to pursue this course of study are encouraged to engage in further exploration of one or more specific majors as they select electives for degree completion. To earn the Associate in Arts in Law, Public Policy and Society 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 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 Art

- 1. Demonstrate independent and critical thinking regarding important topics in law.
- 2. Conduct research and effectively write about historical, social, political and economic issues related to law.

Required Cours	ses	Units
AMST 11	Law and Democracy	3
BA 18	Business and the Legal Environment	4
COMM 4	Persuasion, or	
ENGL 3/3H	Critical Reading & Writing, or	
	Honors Critical Reading & Writing, or	
PHIL 2/2H	Critical Reasoning and Analytic Writing, or	
	Honors Critical Reasoning and Analytic Writing	3
COMM 25	Argumentation	3
CRIM 6	Concepts of Criminal Law	3
ENGL 1A/1AH	Reading and Composition, or	
	Honors Reading and Composition	4
HIST 11	History of the United States to 1877, or	
HIST 12/12H	History of the United States since 1877, or	
	Honors History of the United States since 1877	3

MATH 11/11H	Elementary Statistics, or	
	Honors Elementary Statistics, or	
MATH 42	Statistics for the Behavioral Sciences, or	
DS 23	Business Statistics	3-4
PHIL 1C	Ethics	3
POLSCI 2/2H	American Government, or	
	Honors American Government	3
		Total 32-33

#### LIBERAL ARTS

#### # LIBERAL ARTS WITH AN EMPHASIS IN HISTORY/POLITICAL SCIENCE - MAJOR #5141

program correction, Spring 2018

This program is designed to acquaint students with the methodologies of history and political science and to increase their awareness of the foundations of social, cultural, and political aspects of modern society.

#### **Associate in Arts**

#### **Student Learning Outcome:**

Upon completion of the AA with Emphasis in History/Political Science, students will:

- 1. be familiar with and be able to analyze the foundations of modern institutions.
- 2. be familiar with and be able to analyze the political process.
- 3. be familiar with the cultural diversity of society and be able to gauge its significance in politics and history.

Select 18 units v	vith 9 units from each discipline:	Units
HIST 1/1H	Western Civilization to 1648, or	
	Honors Western Civilization to 1648	3
HIST 2/2H	Western Civilization Since 1648, or	
	Honors Western Civilization Since 1648	3
HIST 3	History of Ancient Rome	3
HIST 11	History of the United States to 1877	3
HIST 12/12H	History of the United States since 1877, or	
	Honors History of the United States since 1877	
HIST 15	History of the British Isles	
HIST 17	History of the Muslim World to 1405	3
HIST 18	History of Ancient Greece	3
HIST 20	World History I, to 1600	3
HIST 21	United States Civil War	
HIST/WSTS 22	History of American Women	
HIST 23	World History II, since 1500	3
HIST 25	History of Religion in the United States	3
HIST/CLS 29	History of Mexico, Colonial to Contemporary Period	
HIST 30	California History	
HIST/AFRAM 34	History of the American Civil Rights Movement	
POLSCI 1	Modern Politics	3
POLSCI 2/2H	American Government, or	
	Honors American Government	
POLSCI 3	Introduction to Political Theory and Thought	3
POLSCI 5	Comparative Government	
POLSCI 13	Legal and Judicial Reasoning	
POLSCI 24	International Relations	
POLSCI 25	Model United Nations	
		Total 18

#### # LIBERAL ARTS WITH AN EMPHASIS IN SPANISH - MAJOR #5183

Associate in Arts deleted program, Spring 2020

### **MARKETING**

#### # FASHION MERCHANDISING - MAJOR #2152

program correction, Fall 2016

This certificate prepares students for employment in the field of Fashion Merchandising.

#### **Certificate of Achievement**

#### **Student Learning Outcome:**

 Integrate the elements of fashion design into the marketing and entrepreneurial concepts of retailing, merchandising, promotion, and personal sales.

Required Core	Courses	Units
ART 7	Beginning Drawing	3
BA 51	Business Planning and New Venture Launch	1.5
MKTG 10	Principles of Marketing	3
MKTG 11	Selling and Sales Management	3
MKTG 12	Advertising and Promotion	3
MKTG 14	Retailing	3
MKTG 17	Visual Merchandising	3
MKTG 21	Digital Marketing	3
MKTG 22	Introduction to Fashion Merchandising	
	·	Total 25.5

### **MEDICAL ASSISTING**

#### # MEDICAL ASSISTANT-CLINICIAN - MAJOR #2120

revised program, Spring 2020

This curriculum is designed for the student who desires employment and advancement in the medical facility assisting the physician with the diagnosis and treatment of the patient. Medical Assisting is an entry level career in the medical field. ADMISSION POLICY: Enrollment is limited in the Medical Assistant–Clinician Program. There are no restrictions as to age, race, sex or marital status. In order to qualify for admission to the program, the applicant must have met all of the following conditions:1. Graduated from high school or complete the General Educational Development (GED) test with an average score of 45.2. Completed Math 260D or test score that would qualify the student to place out of or above Math 260D.3. Completed an Academic Summary Form for the Medical Assistant–Clinician Program and be prepared to furnish transcripts when requested.4. Have no physical impairment that would preclude the performance of all Medical Assistant-Clinician duties. After selection as a qualified student to the Medical Assistant–Clinician Program, the student must submit evidence of physical examination with no limitations by a licensed physician. 5. Students are enrolled into the program in cohorts per semester. 6. Background checks may be required dependent on clinical placement in MA 19 work experience. A negative result may impact ability to complete program.

#### **Associate in Science**

#### **Student Learning Outcome:**

- 1. Identify common medical conditions and diseases.
- 2. Perform clinical skills commonly associated in the physician's office.

Required Co	ore Courses	Units
FN 40	Nutrition	3
HIT 10	Medical Terminology	3
MA 1	Legal and Ethical Concepts	2
MA 2	Pharmacology	3
MA 4	Office Laboratory Procedures	
MA 5	Diagnostic & Therapeutic Procedures	
MA 6A	Clinical Training	3
MA 6B	Advanced Training	3
MA 19	Work Experience (Cooperative), Occupational	
	. , , , , , , , , , , , , , , , , , , ,	Total 26

<sup>\*</sup>BT 23, HLTH 2, and HS 24 are recommended electives as part of the Associate degree general education requirements.

#### MUSIC

#### # GUITAR MAJORS - MAJOR #5830

program correction, Fall 2018

This program satisfies the requirements for the associate in arts degree with a major in music and the lower division course requirements at most California state universities. Music majors must select one of the following areas of specialization: instrumental, vocal, guitar, piano, or commercial music. Instrumental, vocal, guitar, and piano majors must take Music 1A, 1B, 2A, 2B, 7A, 7B, 7C, 7D, 13, and 18. These majors must also take the appropriate Intermediate/Advanced class and participate in a Large Ensemble every semester they are enrolled in the Music Major.

#### **Associate in Arts**

#### Student Learning Outcome:

- 1. Perform guitar music of at least three different time periods.
- 2. Hear, analyze, read, and write music.
- 3. Distinguish historical musical styles while using appropriate conducting patterns.

Required Core (	Courses	Units
MUS 1A	Music Theory I	3
MUS 1B	Music Theory II	
MUS 2A	Music Theory III	
MUS 2B	Music Theory IV	3
MUS 7A	Ear Training I	
MUS 7B	Ear Training: Level II	
MUS 7C	Ear Training: Level III	
MUS 7D	Ear Training: Level IV	
MUS 13	History of Music	3
MUS 18	Basic Conducting and Score Reading	2
	stermediate/Advanced class requirement:	Units
MUS 29	Intermediate/Advanced Guitar	1-2
For the Large Fu	nsemble requirement, all guitar majors	
	to forces the fellowing.	Units
MUS 30	College Choir	1-2
MUS 34	Fresno Chorale	1-2
MUS 40	Concert Band	
MUS 41	Jazz Ensemble	1-2
MUS 46	Symphony Orchestra	1-2
MUS 47A	Jazz Combo: New Orleans, Swing and Bop	2
MUS 47B	Jazz Combo: Cool and Mainstream	2
MUS 47C	Jazz Combo: Modern and Fusion	2
MUS 47D	Jazz Combo: World Music	
MUS 48	Latin Jazz Ensemble	
MUS 53	Latin Jazz Workshop	
MSU 54	Afro-Latin Ensemble	
MUS 55	Afro-Caribbean Ensemble	
MUS 60	Symphonic Choir	
MUS 68	Symphonic Band	1-2
MUS 70	Contemporary Jazz Ensemble	
MUS 71	Lab Jazz Ensemble	1-2
MUS 72	Jazz Composer's Orchestra	2
MUS 76	College Philharmonic Orchestra	
MUS 90	Jazz Composers Workshop	
MUS 91	Jazz Composers Ensemble	
MUS 92	Vocal Jazz Ensemble	

### **PHOTOGRAPHY**

#### # DIGITAL PHOTOGRAPHY - MAJOR #5223

program correction, Spring 2018

Students taking these classes will learn the various methods and processes of digital photography emphasizing professional quality on all levels. From digital capture to high end output printing, students will learn control of a variety of digital systems.

Total 37

#### **Certificate of Achievement**

#### **Student Learning Outcome:**

1. Organize effective color management of images from input to output on high end digital printing devices.

Required Cor	e Courses	Units
GRC 52	Adobe Lightroom	3
PHOTO 6	Digital Imaging Fundamentals	3
PHOTO 12	Beginning Photoshop	
PHOTO 23	Advanced Photoshop	
PHOTO 57	Applied Color and Alternative Photographic Media	
		Total 15

#### RADIOLOGIC TECHNOLOGY

#### **RADIOLOGIC TECHNOLOGY - MAJOR #4570**

revised program. Spring 2020

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.

First Year - Firs	st 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

First Year -	Second Semester	Units
RAD 2A	Radiation Biology	6
RAD 2B	Advanced Radiographic Positioning Laboratory	
RAD 2C	Clinical Observation Laboratory	3
RAD 2D	Quality Assurance in Radiologic Technology	1
First Year –	Summer Semester	Units
RAD 3	Basic Clinical Radiologic Technology	8
Second Year	nr – First Semester	Units
RAD 4A	Pathology in Radiologic Technology	2
RAD 4B	Advanced Clinical Radiologic Technology	12
RAD 4C	Advanced Radiographic Positioning Laboratory – C	ranium 1
Second Year	ar – Second Semester	Units
RAD 5A	Special Procedures in Radiologic Technology	2
RAD 5B	Specialized Clinical Radiologic Technology	12
RAD 5C	Fluoroscopy	2
Second Yea	ar – Second Summer	Units
RAD 6	Concentrated Clinical Radiologic Technology	4
		Total 67

#### **SPANISH**

#### # SPANISH - MAJOR #5510

Associate in Arts deleted program, Spring 2020

#### # SPANISH FOR TRANSFER - MAJOR #5550

Associate in Arts

program correction, Fall 2018

The Associate in Arts in Spanish for Transfer is designed to prepare students for further study in Spanish at the university level. A degree in Spanish is a great way to prepare students for entry into a variety of career options requiring intermediate or better levels of fluency. The Associate in Arts in Spanish major also acquaints students with the cultures of Spanish speaking countries. The Associate in Spanish for Transfer is specifically designed for students who plan to complete a bachelor's degree in Spanish at a CSU campus. To earn the Associate in Spanish for Transfer, students must complete 60 required semester units of CSU-transferable coursework, CSU-GE Breath or IGETC requirements and 21-24 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. The 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 admissions and transfer requirements.

- 1. Students entering the Spanish program at Spanish 2 or higher are required to complete the specified unit requirements of the degree. Students must consult with the Foreign Language Department Chair for approval of course substitutions.
- 2. Some of the above courses may have prerequisite. See the catalog or schedule of classes.
- 3. The Associate Degree requires completion of the major (21-24 units) with a "C" or better in each course plus the completion of the General Education (either CSU-GE Breadth or IGETC) for a total of 60 semester units with a 2.0 or better GPA.
- 4. Two of the following courses may be challenged according to Foreign Language Department policy: Spanish 1, 2.

#### WELDING TECHNOLOGY

#### **# METAL FABRICATION OPTION - MAJOR #8371**

revised program, Spring 2020

Instruction in the design and fabrication of metal projects by welding and related practices. Skills will be taught in design, manufacturing processes, production techniques, and material cost estimation.

#### **Associate in Science**

- 1. Given an idea or description, design and plan the construction of one or more advanced metal fabricated projects.
- 2. From the design and specifications, determine estimated steel weights and cost calculations.
- Demonstrate the proper safety precautions, setup and use of tools and equipment common to metal fabrication.
- 4. In the construction of their project, students will apply various types of welds and other joining processes with quality workmanship to assemble the metal components of their advanced projects.
- 5. During the construction of a project, demonstrate the efficient use of time and materials to produce advanced projects.

Required Cours		Units
AT 10	Technical Computer Applications	3
AT 21	Occupational Safety and Health	
AT 40 AT 130	Preparing for Employment Opportunities	
CADD 16	3D Solid Modeling I	
DRAFT 12	Drafting Practices	
WELD 3A	Welding Design and Fabrication	5
WELD 3B	Intermediate Welding Design and Fabrication	
Required Weldin	ng Sequence Options	
WELD 2A	Introduction to Welding Technology, and	
WELD 2B	Advanced Multi-Process Welding, or	
WELD 6A	Shielded Metal Arc Welding Theory and Application, an	nd
WELD 6B	Semi-Automatic Wire Feed Welding, and	0 E 11
WELD 6C	Gas Tungsten Arc Welding Theory and Application1	0.5-11
Electives (Selec		Units
AT 140	Introduction to Machine Shop	
CADD 24 CAM 10	2D CAD II CNC Mill Programming & Operation I	
ENGR 10	Introduction to Engineering	
ENGR 10	Manufacturing Processes	
WELD 56	Blueprint Reading for Welders	
	Total 3	
RECOMMENDE	D SEQUENCE	
First Year - Firs		Units
AT 10	Technical Computer Applications	
AT 130	Industrial Mathematics	3
WELD 2A WELD 6A	Introduction to Welding Technology, or Shielded Metal Arc Welding Theory and Application	2 5 6
First Year – Sec AT 21	Occupational Safety and Health	Units
AT 40	Preparing for Employment Opportunities	
CADD 16	3D Solid Modeling I	
WELD 2B	Advanced Multi-Process Welding, or	
WELD 6B	Semi-Automatic Wire Feed Welding	3.5-5
Second Year - F		Units
DRAFT 12	Drafting Practices	
WELD 3A	Welding Design and Fabrication	
WELD 6C	Gas Tungsten Arc Welding Theory and Application	3.5
	econd Semester	Units
WELD 3B	Intermediate Welding Design and Fabrication	
Elective Course		∠-4

#### **# METAL FABRICATION OPTION - MAJOR #8371**

revised program, Spring 2020

Instruction in the design and fabrication of metal projects by welding and related practices. Skills will be taught in design, manufacturing processes, production techniques, and material cost estimation.

#### **Certificate of Achievement**

- 1. Given an idea or description, design and plan the construction of one or more advanced metal fabricated projects.
- 2. From the design and specifications, determine estimated steel weights and cost calculations.
- 3. Demonstrate the proper safety precautions, setup and use of tools and equipment common to metal fabrication.
- 4. In the construction of their project, students will apply various types of welds and other joining processes with quality workmanship to assemble the metal components of their advanced projects.
- 5. During the construction of a project, demonstrate the efficient use of time and materials to produce advanced projects.

Required Cours	es	Units
AT 10	Technical Computer Applications	
AT 21	Occupational Safety and Health	
AT 40	Preparing for Employment Opportunities	
AT 130	Industrial Mathematics	
CADD 16	3D Solid Modeling I	
DRAFT 12	Drafting Practices	3
WELD 3A WELD 3B	Welding Design and Fabrication Intermediate Welding Design and Fabrication	
WELD 3B	intermediate Welding Design and Pablication	
Required Weldin	ng Sequence Options	
WELD 2A	Introduction to Welding Technology, and	
WELD 2B	Advanced Multi-Process Welding, or	
WELD 6A	Shielded Metal Arc Welding Theory and Application	, and
WELD 6B	Semi-Automatic Wire Feed Welding, and	40 5 44
WELD 6C	Gas Tungsten Arc Welding Theory and Application.	10.5-11
Electives (Selec	t 1 course)	Units
CADD 24	2D CAD II	
CAM 10	CNC Mill Programming & Operation I	
ENGR 10	Introduction to Engineering	
ENGR 11	Manufacturing Processes	3
WELD 56	Blueprint Reading for Welders	
	lot	al 39.5-42
RECOMMENDE	D SEQUENCE	
First Year – Firs		Units
AT 10	Technical Computer Applications	
AT 130	Industrial Mathematics	3
WELD 2A	Introduction to Welding Technology, or	0.5.0
WELD 6A	Shielded Metal Arc Welding Theory and Application	3.5-6
First Year - Sec		Units
AT 21	Occupational Safety and Health	
AT 40	Preparing for Employment Opportunities	
CADD 16 WELD 2B	3D Solid Modeling IAdvanced Multi-Process Welding, or	3
WELD 2B WELD 6B	Semi-Automatic Wire Feed Welding	355
	-	
Second Year – F		Units
DRAFT 12	Drafting Practices	
WELD 3A WELD 6C	Welding Design and FabricationGas Tungsten Arc Welding Theory and Application	oع ج
	econd Semester	Units
WELD 3B	Intermediate Welding Design and Fabrication	
Elective Course		2-4

# # PIPE AND STRUCTURAL STEEL CERTIFICATION - FORMERLY PIPE AND STRUCTURAL STEEL CERTIFICATION OPTION - MAJOR #8375

revised program, Spring 2020

Welding technology provides an opportunity for students to prepare for employment in welding and metal occupations. Specific preparation is provided in welding and metal fabrication or pipe and steel certification procedures. Pre-employment training for structural steel and pipe welding technicians. An emphasis is placed on developing certification code-level proficiency in the use of shielded metal arc and flux cored arc welding procedures used in the construction of components on bridges, building, and pressure vessel systems.

# Associate in Science and Certificate of Achievement

- 1. Students will demonstrate correct usage of all weld symbols on the American Welding Society welding symbols chart.
- 2. Students will weld in all welding positions.
- 3. Students will correctly use ASME, AWS and API codes.
- 4. Students will perform and weld different pipe configurations according to specification.

	es Unit	S
AT 10	Technical Computer Applications	3
AT 21	Occupational Safety and Health	
AT 40	Preparing for Employment Opportunities	3
AT 130	Industrial Mathematics	3
DRAFT 12	Drafting Practices	
WELD 4A	Heavy Plate, Structural Steel and Welding Certification	
WELD 4B	Pipe, Tube Welding and Certification	5
Required Weldi WELD 2A WELD 2B WELD 6A WELD 6B WELD 6C	ng Sequence Options Introduction to Welding Technology, and Advanced Multi-Process Welding, or Shielded Metal Arc Welding Theory and Application, and Semi-Automatic Wire Feed Welding, and Gas Tungsten Arc Welding Theory and Application10.5-1	1
Electives (Selec	et 2 courses)	•
CADD 14	2D CAD I	_
CADD 24	2D CAD II	
ENGR 10	Introduction to Engineering	
ENGR 11	Manufacturing Processes	
WELD 56	Blueprint Reading for Welders	
00	Total 38.5-4	
RECOMMENDE First Year – Firs AT 10 AT 130 DRAFT 12 WELD 2A WELD 6A	Technical Computer Applications	3 3 3
First Year – First AT 10 AT 130 DRAFT 12 WELD 2A WELD 6A	t Semester Technical Computer Applications	3 3 3 6
First Year - First AT 10 AT 130 DRAFT 12 WELD 2A WELD 6A First Year - Sec	t Semester Technical Computer Applications	3 3 3 6 <b>s</b>
First Year - First AT 10 AT 130 DRAFT 12 WELD 2A WELD 6A First Year - Sec AT 21	t Semester Technical Computer Applications	3 3 3 6 <b>s</b>
First Year – First AT 10 AT 130 DRAFT 12 WELD 2A WELD 6A First Year – Sec AT 21 AT 40	t Semester Technical Computer Applications	3 3 3 6 <b>s</b>
First Year - First AT 10 AT 130 DRAFT 12 WELD 2A WELD 6A First Year - Sec AT 21 AT 40 WELD 2B	Technical Computer Applications	3 3 3 6 <b>s</b> 2
First Year – First AT 10 AT 130 DRAFT 12 WELD 2A WELD 6A First Year – Sec AT 21 AT 40 WELD 2B WELD 6B	t Semester Technical Computer Applications	3 3 3 3 6 <b>s</b> 2 3
First Year - First AT 10 AT 130 DRAFT 12 WELD 2A WELD 6A First Year - Sec AT 21 AT 40 WELD 2B	t Semester Technical Computer Applications	3 3 3 3 6 <b>s</b> 2 3 5 <b>s</b> 5 5
First Year – First AT 10 AT 130 DRAFT 12 WELD 2A WELD 6A  First Year – Sec AT 21 AT 40 WELD 2B WELD 6B  Second Year – I WELD 4A WELD 6C Elective Course	Technical Computer Applications	3 3 3 3 6 <b>s</b> 2 3 5 <b>s</b> 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
First Year – First AT 10 AT 130 DRAFT 12 WELD 2A WELD 6A  First Year – Sec AT 21 AT 40 WELD 2B WELD 6B  Second Year – I WELD 4A WELD 6C Elective Course	Technical Computer Applications	3 3 3 3 6 <b>s</b> 2 3 5 <b>s</b> 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
First Year – First AT 10 AT 130 DRAFT 12 WELD 2A WELD 6A  First Year – Sec AT 21 AT 40 WELD 2B WELD 6B  Second Year – I WELD 4A WELD 6C Elective Course  Second Year – Yea	Technical Computer Applications	33336 <b>s</b> 23 5 <b>s</b> 553 <b>s</b> 5

#### # WELDING MULTI-PROCESS - MAJOR #8373

revised program, Spring 2020

This certificate provides pre-employment training for an entry level job in the welding industry. Instruction in the areas of shielded metal, gas metal, gas tungsten and flux cored arc welding along with oxyacetylene cutting and plasma cutting will be presented. Skills will include welding in the flat, horizontal, vertical and overhead positions with the various processes as well as welding with aluminum and stainless steel with the Gas Metal and Gas Tungsten arc welding processes. Students will also use common power and hand tools to compliment related to the welding industry.

#### **Certificate of Achievement**

- 1. Identify defects and discontinuities in their horizontal, vertical, and overhead welds according to AWS (American Welding Society) standards.
- 2. Given a power source, properly set up and adjust the SMAW, GMAW, GTAW, FCAW and air carbon arc gouging machines to complete their lab assignment to AWS standards.
- 3. Given a drawing with weld symbols and specifications, prepare metal and perform the correct weld.

Required Cours	ses	Units
AT 130	Industrial Mathematics	3
DRAFT 12	Drafting Practices	3

Required Weld WELD 2A WELD 2B WELD 6A WELD 6B WELD 6C	ing Sequence Options Introduction to Welding Technology, and Advanced Multi-Process Welding, or Shielded Metal Arc Welding Theory and Application, a Semi-Automatic Wire Feed Welding, and Gas Tungsten Arc Welding Theory and Application Total	
RECOMMENDE	ED SEQUENCE	
First Year - Fir	st Semester	Units
AT 130	Industrial Mathematics	3
WELD 2A	O 077	
WELD 6A	Shielded Metal Arc Welding Theory and Application	3.5-6
First Year - Se	cond Semester	Units
DRAFT 12	Drafting Practices	3
WELD 2B	Advanced Multi-Process Welding, or	
WELD 6B	Semi-Automatic Wire Feed Welding	3.5-5
	· ·	
Second Year -	First Semester (For WELD 6 series)	Units
WELD 6C	Gas Tungsten Arc Welding Theory and Application	

# **COURSE DESCRIPTIONS**

Changes to Pages 247-447

# **Course Classification System**

Change	
Change: new Admin of Justice 233T – Training Conference – Active Shooter Update	effective Spring 2020
Admin of Justice 233V – Officer Skills Orientation Update	effective Spring 2020
Admin of Justice 246L – Critical Incident Articulation Update	effective Spring 2020
Admin of Justice 291B – Police Field Training Techniques Update	effective Spring 2020
Developmental Services 252A – Communication Skills and Strategies 1	effective Spring 2020
Developmental Services 252B – Communication Skills and Strategies	effective Spring 2020
Developmental Services 283 – Reading Comprehension 1	effective Spring 2020
Developmental Services 284 – Reading Comprehension 2	effective Spring 2020
Developmental Services 285 – Paragraphs to Essays	effective Spring 2020
Developmental Services 286 – Essay Development and College Writing	effective Spring 2020
Change: delete	
Business & Technology 271 – Business Grammar Fundamentals	effective Spring 2020
Developmental Services 251 – Workability Portfolio and Interview Development	effective Spring 2020
Developmental Services 252 – Workability Strategies and Communication Skills	effective Spring 2020
English 277 – Reading Skills	effective Spring 2020
English 278 – Reading Comprehension	effective Spring 2020
English 281 – Grammar and Sentence Writing	effective Spring 2020
English 282 – Paragraph Writing Fire Technology 222A – Firefighter II Part A	effective Spring 2020
Fire Technology 222A – Firefighter II Part A Fire Technology 222B – Firefighter II Part B	effective Spring 2020 effective Spring 2020
File Technology 222b - Filelighter if Fait b	ellective Spring 2020
Noncredit	
Change: new	
Change: new  Business & Technology 331 – 21st Century Workforce Skills	effective Spring 2020
Business & Technology 331 – 21st Century Workforce Skills	effective Spring 2020 effective Spring 2020
Business & Technology 331 – 21 <sup>st</sup> Century Workforce Skills English for Multi-Lingual Students 364RA – Intermediate Reading and Vocabulary A	effective Spring 2020
Business & Technology 331 – 21 <sup>st</sup> Century Workforce Skills English for Multi-Lingual Students 364RA – Intermediate Reading and Vocabulary A English for Multi-Lingual Students 364RB – Intermediate Reading and Vocabulary B	effective Spring 2020 effective Spring 2020
Business & Technology 331 – 21st Century Workforce Skills English for Multi-Lingual Students 364RA – Intermediate Reading and Vocabulary A English for Multi-Lingual Students 364RB – Intermediate Reading and Vocabulary B English for Multi-Lingual Students 364RC – Intermediate Reading and Vocabulary C	effective Spring 2020 effective Spring 2020 effective Spring 2020
Business & Technology 331 – 21 <sup>st</sup> Century Workforce Skills English for Multi-Lingual Students 364RA – Intermediate Reading and Vocabulary A English for Multi-Lingual Students 364RB – Intermediate Reading and Vocabulary B	effective Spring 2020 effective Spring 2020 effective Spring 2020
Business & Technology 331 – 21st Century Workforce Skills English for Multi-Lingual Students 364RA – Intermediate Reading and Vocabulary A English for Multi-Lingual Students 364RB – Intermediate Reading and Vocabulary B English for Multi-Lingual Students 364RC – Intermediate Reading and Vocabulary C	effective Spring 2020 effective Spring 2020 effective Spring 2020 t Reduction effective Spring 2020
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Business & Technology 331 – 21st Century Workforce Skills English for Multi-Lingual Students 364RA – Intermediate Reading and Vocabulary A English for Multi-Lingual Students 364RB – Intermediate Reading and Vocabulary B English for Multi-Lingual Students 364RC – Intermediate Reading and Vocabulary C English for Multi-Lingual Students 371A – Low-Intermediate Pronunciation Improvement and Accent	effective Spring 2020 effective Spring 2020 effective Spring 2020 t Reduction effective Spring 2020 t Reduction effective Spring 2020 tfective Spring 2020
Business & Technology 331 – 21st Century Workforce Skills English for Multi-Lingual Students 364RA – Intermediate Reading and Vocabulary A English for Multi-Lingual Students 364RB – Intermediate Reading and Vocabulary B English for Multi-Lingual Students 364RC – Intermediate Reading and Vocabulary C English for Multi-Lingual Students 371A – Low-Intermediate Pronunciation Improvement and Accent English for Multi-Lingual Students 371B – High-Intermediate Pronunciation Improvement and Accent English for Multi-Lingual Students 371C – Advanced Pronunciation Improvement and Accent Reduce	effective Spring 2020 effective Spring 2020 effective Spring 2020 t Reduction effective Spring 2020 tt Reduction effective Spring 2020 effective Spring 2020 effective Spring 2020 effective Spring 2020
Business & Technology 331 – 21st Century Workforce Skills English for Multi-Lingual Students 364RA – Intermediate Reading and Vocabulary A English for Multi-Lingual Students 364RB – Intermediate Reading and Vocabulary B English for Multi-Lingual Students 364RC – Intermediate Reading and Vocabulary C English for Multi-Lingual Students 371A – Low-Intermediate Pronunciation Improvement and Accent English for Multi-Lingual Students 371B – High-Intermediate Pronunciation Improvement and Accent English for Multi-Lingual Students 371C – Advanced Pronunciation Improvement and Accent Reduce English for Multi-Lingual Students 372A – Low-Intermediate Academic Grammar	effective Spring 2020 effective Spring 2020 effective Spring 2020 t Reduction effective Spring 2020 tt Reduction effective Spring 2020 effective Spring 2020 effective Spring 2020 effective Spring 2020
Business & Technology 331 – 21st Century Workforce Skills English for Multi-Lingual Students 364RA – Intermediate Reading and Vocabulary A English for Multi-Lingual Students 364RB – Intermediate Reading and Vocabulary B English for Multi-Lingual Students 364RC – Intermediate Reading and Vocabulary C English for Multi-Lingual Students 371A – Low-Intermediate Pronunciation Improvement and Accent English for Multi-Lingual Students 371B – High-Intermediate Pronunciation Improvement and Accent English for Multi-Lingual Students 371C – Advanced Pronunciation Improvement and Accent Reduce English for Multi-Lingual Students 372A – Low-Intermediate Academic Grammar English for Multi-Lingual Students 372B – High-Intermediate Academic Grammar	effective Spring 2020 effective Spring 2020 effective Spring 2020 t Reduction effective Spring 2020 tt Reduction effective Spring 2020
Business & Technology 331 – 21st Century Workforce Skills English for Multi-Lingual Students 364RA – Intermediate Reading and Vocabulary A English for Multi-Lingual Students 364RB – Intermediate Reading and Vocabulary B English for Multi-Lingual Students 364RC – Intermediate Reading and Vocabulary C English for Multi-Lingual Students 371A – Low-Intermediate Pronunciation Improvement and Accent English for Multi-Lingual Students 371B – High-Intermediate Pronunciation Improvement and Accent English for Multi-Lingual Students 371C – Advanced Pronunciation Improvement and Accent Reduce English for Multi-Lingual Students 372A – Low-Intermediate Academic Grammar English for Multi-Lingual Students 372B – High-Intermediate Academic Grammar English for Multi-Lingual Students 372C – Advanced Academic Grammar	effective Spring 2020 effective Spring 2020 effective Spring 2020 t Reduction effective Spring 2020 tt Reduction effective Spring 2020
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Business & Technology 331 – 21st Century Workforce Skills English for Multi-Lingual Students 364RA – Intermediate Reading and Vocabulary A English for Multi-Lingual Students 364RB – Intermediate Reading and Vocabulary B English for Multi-Lingual Students 364RC – Intermediate Reading and Vocabulary C English for Multi-Lingual Students 371A – Low-Intermediate Pronunciation Improvement and Accent English for Multi-Lingual Students 371B – High-Intermediate Pronunciation Improvement and Accent English for Multi-Lingual Students 371C – Advanced Pronunciation Improvement and Accent Reduce English for Multi-Lingual Students 372A – Low-Intermediate Academic Grammar English for Multi-Lingual Students 372B – High-Intermediate Academic Grammar English for Multi-Lingual Students 372C – Advanced Academic Grammar English for Multi-Lingual Students 373A – Low-Intermediate Listening and Speaking English for Multi-Lingual Students 373B – High-Intermediate Listening and Speaking	effective Spring 2020 effective Spring 2020 effective Spring 2020 t Reduction effective Spring 2020 tt Reduction effective Spring 2020 etfective Spring 2020 effective Spring 2020
Business & Technology 331 – 21st Century Workforce Skills English for Multi-Lingual Students 364RA – Intermediate Reading and Vocabulary A English for Multi-Lingual Students 364RB – Intermediate Reading and Vocabulary B English for Multi-Lingual Students 364RC – Intermediate Reading and Vocabulary C English for Multi-Lingual Students 371A – Low-Intermediate Pronunciation Improvement and Accent English for Multi-Lingual Students 371B – High-Intermediate Pronunciation Improvement and Accent English for Multi-Lingual Students 371C – Advanced Pronunciation Improvement and Accent Reduce English for Multi-Lingual Students 372A – Low-Intermediate Academic Grammar English for Multi-Lingual Students 372B – High-Intermediate Academic Grammar English for Multi-Lingual Students 372C – Advanced Academic Grammar English for Multi-Lingual Students 373A – Low-Intermediate Listening and Speaking English for Multi-Lingual Students 373B – High-Intermediate Listening and Speaking English for Multi-Lingual Students 373C – Advanced Listening and Speaking	effective Spring 2020 effective Spring 2020 effective Spring 2020 t Reduction effective Spring 2020 tt Reduction effective Spring 2020
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Business & Technology 331 – 21st Century Workforce Skills English for Multi-Lingual Students 364RA – Intermediate Reading and Vocabulary A English for Multi-Lingual Students 364RB – Intermediate Reading and Vocabulary B English for Multi-Lingual Students 364RC – Intermediate Reading and Vocabulary C English for Multi-Lingual Students 371A – Low-Intermediate Pronunciation Improvement and Accent English for Multi-Lingual Students 371B – High-Intermediate Pronunciation Improvement and Accent English for Multi-Lingual Students 371C – Advanced Pronunciation Improvement and Accent Reduce English for Multi-Lingual Students 372A – Low-Intermediate Academic Grammar English for Multi-Lingual Students 372B – High-Intermediate Academic Grammar English for Multi-Lingual Students 372C – Advanced Academic Grammar English for Multi-Lingual Students 373A – Low-Intermediate Listening and Speaking English for Multi-Lingual Students 373B – High-Intermediate Listening and Speaking English for Multi-Lingual Students 373C – Advanced Listening and Speaking English for Multi-Lingual Students 373C – Advanced Listening and Speaking English for Multi-Lingual Students 373C – Advanced Listening and Speaking English for Multi-Lingual Students 373C – Advanced Listening and Speaking English for Multi-Lingual Students 373C – Advanced Listening and Speaking English for Multi-Lingual Students 373C – Advanced Listening and Speaking English for Multi-Lingual Students 373C – Advanced Listening and Speaking English for Multi-Lingual Students 373C – Advanced Listening and Speaking English for Multi-Lingual Students 373C – Advanced Listening and Speaking English for Multi-Lingual Students 373C – Advanced Listening and Speaking	effective Spring 2020 effective Spring 2020 effective Spring 2020 t Reduction effective Spring 2020 tt Reduction effective Spring 2020

# Courses

# **Administration of Justice (AJ)**

effective Spring 2020 New course

# 233T Training Conference - Active Shooter 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.

Techniques and tactics for law enforcement officers to engage active shooters in various situations in order to reduce injuries or deaths in active shooting incidents.

New course effective Spring 2020

233V Officer Skills Orientation 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 case law, policies, firearms, chemical weapons, and less-than-lethal weapons, common to officers entering the patrol environment.

New course effective Spring 2020

246L Critical Incident Articulation Update, 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 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.

Provide public safety officers with a comprehensive understanding of case law and statutory law as it relates to use of force incidents. The students will be exposed to scenario based, force on force, training with outcomes ranging anywhere from verbal de-escalation to the application of lethal force. The students will have and understanding of the roles of all entities involved in the critical incident investigation process.

effective Spring 2020 New course 291B Police Field Training Techniques Update, 0.1 unit, 0.06 lecture hour, 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/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.

Intended for current Field Training Officers to update them on new and current law enforcement trainee training methods, concerns, and policies.

# Aerospace Studies (AEROST)

Change: title, description Heritage and Values of the United States Air Force, 1 unit, 1 lecture hour effective Spring 2020

Corequisite: Aerospace Studies 3. Advisory: Eligibility for English 1A recommended.

A survey course designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, and organization of the Air Force. (A, CSU, UC)

Change: title, description

effective Spring 2020

# 1B Heritage and Values of the United States Air Force, 1 unit, 1 lecture hour

Corequisite: Aerospace Studies 3. Advisory: Eligibility for English 1A recommended.

A survey course designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, and organization of the Air Force. (A, CSU, UC)

Change: title, description

effective Spring 2020

# 2A Team and Leadership Fundamentals, 1 unit, 1 lecture hour

Corequisite: Aerospace Studies 3. Advisory: Eligibility for English 1A recommended.

"Team and Leadership Fundamentals" focuses on laying the foundation for teams and leadership. The topics include skills that will allow cadets to improve their leadership on a personal level and within a team. The courses will prepare cadets for their field training experience where they will be able to put the concepts learned into practice. The purpose is to instill a leadership mindset and to motivate sophomore students to transition from AFROTC cadet to AFROTC officer candidate. (A, CSU, UC)

Change: title, description

effective Spring 2020

# 2B Team and Leadership Fundamentals, 1 unit, 1 lecture hour

Corequisite: Aerospace Studies 3. Advisory: Eligibility for English 1A recommended.

"Team and Leadership Fundamentals" focuses on laying the foundation for teams and leadership. The topics include skills that will allow cadets to improve their leadership on a personal level and within a team. The courses will prepare cadets for their field training experience where they will be able to put the concepts learned into practice. The purpose is to instill a leadership mindset and to motivate sophomore students to transition from AFROTC cadet to AFROTC officer candidate. (A, CSU, UC)

Change: hours

effective Spring 2020

#3 Leadership Laboratory, 1 unit, 3 lab hours, (Pass/No Pass)

Course deleted

New course

effective Spring 2020

# 5 Drill and Ceremony Fundamentals, 0.5 unit, 0.5 lecture hour, 0.5 lab hour

### Apprenticeship (APP)

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effective Spring 2020

100 Forklift Orientation Initial, 2 units, 2 lecture hours, 0.5 lab hour, (Pass/No Pass)

Prerequisite: Registered Apprentice with LiUNA! Northern California District Council of Laborers.

An introduction to gain the understanding of current regulations, common type of Rough Terrain Variable Reach Lift trucks and understand why you conduct pre-shift inspections. Learn techniques for safe operation of Rough Terrain Variable Reach lift truck by hands-on operation and maneuvering accordance with OSHA Standard 29 CFR 1910.178(I). (A)

New course effective Spring 2020

101 Fundamentals of Construction, 3.5 units, 3 lecture hours, 1.5 lab hours, (Pass/No Pass)

Prerequisite: Registered Apprentice with LiUNA! Northern California District Council of Laborers.

An introduction to provide the trainees with basic overview of the general practices of construction work, including safety, tools, techniques, terms, safe work habits and knowledge of the industry. In accordance with the CAL-OSHA CCR Title 8 and OSHA CFR 1926 Construction Standards that are applicable to courses being covered. (A)

New course effective Spring 2020

102 Hazardous Waste Removal Initial, 2 units, 2 lecture hours, 0.5 lab hour, (Pass/No Pass)

Prerequisite: Registered Apprentice with LiUNA! Northern California District Council of Laborers.

An introduction to instruct trainees in the types of hazards and situations that can be encountered on the job site. trainees will learn protective measures, proper use of equipment and learn safety and health issues, in accordance with 29 CFR 1910.120, 132, 143, 146, and 1200. (A)

New course effective Spring 2020

103 Safety Certification, 2 units, 2 lecture hours, 0.5 lab hour, (Pass/No Pass)

Prerequisite: Registered Apprentice with LiUNA! Northern California District Council of Laborers.

Introduction to safety requirements set forth by the Occupational Safety and Health Administration (OSHA),

Construction Industry Standards and General Standards, as they relate to the Construction Industry. Students may earn OSHA 10, OSHA 30, Cal-OSHA 10, and/or Cal-OSHA 30. (A)

New course effective Spring 2020

104 Aerial Work Platform Initial, 0.5 unit, 0.25 lecture hour, 0.75 lab hour, (Pass/No Pass)

Prerequisite: Registered Apprentice with LiUNA! Northern California District Council of Laborers.

An introduction to provide the trainees with the knowledge of current regulations, common type of aerial work platforms and understand the need to conduct pre-shift inspections. Learn techniques for safe operation and maneuvering. Teach trainees to work safely on and around self-propelled aerial work platforms, such as scissor-lifts and boom lifts. (A)

New course effective Spring 2020

05 Rigging and Signaling, 2 units, 2 lecture hours, 0.5 lab hour, (Pass/No Pass)

Prerequisite: Registered Apprentice with LiUNA! Northern California District Council of Laborers.

Provide the trainees with an understanding of the safe approach to Rigging and Signaling. Describe and demonstrate the state procedures of Rigging and Signaling in accordance with OSHA CFR 1926.251 and 1926.5 Construction. (A)

New course effective Spring 2020

106 Skid Steer Loader Orientation Initial, 2 units, 2 lecture hours, 0.5 lab hour, (Pass/No Pass)

Prerequisite: Registered Apprentice with LiUNA! Northern California District Council of Laborers.

An introduction to provide student trainees with a good understanding of how to operate mobile equipment, learn current safety procedures and proper maintenance of a skid steer loader (Bobcat). (A)

New course effective Spring 2020

107 Concrete Techniques, 3.5 units, 3 lecture hours, 1.5 lab hours, (Pass/No Pass)

Prerequisite: Registered Apprentice with LiUNA! Northern California District Council of Laborers.

Familiarize students with concrete safety, its history, properties and components. It includes a hands-on portion in accordance with Cal-OSHA CCR Title 7 1712-1722 and OSHA CFR 1926.703. (A)

New course effective Spring 2020

108 Asphalt Paving Techniques, 3.5 units, 3 lecture hours, 1.5 lab hours, (Pass/No Pass)

Prerequisite: Registered Apprentice with LiUNA! Northern California District Council of Laborers.

An introduction to familiarize the trainees with the skills they need to work with Asphalt safely and learn the proper use of tools and equipment needed when working with Asphalt. (A)

### **Business Administration (BA)**

Change: advisory, description

effective Spring 2020

# 5 Workplace Communication, 3 units, 3 lecture hours, (See also Business & Technology 5 Advisory: None.

Professional workplace communication including written, oral, and presentation fundamentals with emphasis on organization, correctness, completeness, conciseness, and tone. Cross-listed with BA-5. (A, CSU)

# **Business & Technology (BT)**

Change: units, hours, advisory

effective Spring 2020

# 1 Computer Document Processing I, 3 units, 2 lecture hours, 3 lab hours, (Formerly BSS 1A and Business Information Processing 1)

Advisory: None.

Change: advisory

effective Spring 2020

# 2 Computer Document Processing II, 3 units, 2 lecture hours, 3 lab hours, (Formerly Business Information Processing 2)

Prerequisite: Business & Technology 1. Advisory: None.

Change: advisory, description

effective Spring 2020

# 5 Workplace Communication, 3 units, 3 lecture hours, (See also Business Administration 5), (Formerly BSS 5 and Business General Office 5)

Advisory: None.

Professional workplace communication including written, oral, and presentation fundamentals with emphasis on organization, correctness, completeness, conciseness, and tone. Cross-listed with BA-5. (A, CSU)

Change: advisory

effective Spring 2020

# 6 Records Management, 3 units, 3 lecture hours, 1 lab hour, (Formerly Business Information Processing 10 and Business & Technology 10)

Advisory: Business & Technology 106.

Change: advisory effective Spring 2020

# 9 Computer Applications I, 4 units, 3 lecture hours, 3 lab hours, (Formerly Business Information Processing 9)
Advisory: Business & Technology 1.

Change: advisory effective Spring 2020

# 10 Computer Applications II, 4 units, 3 lecture hours, 3 lab hours

Prerequisite: Business & Technology 9. Advisory: None.

Change: advisory effective Spring 2020

# 11 Today's Office, 3 units, 3 lecture hours, 1 lab hour, (Formerly Business General Office 18)
Advisory: Business & Technology 1 and 106.

Course deleted effective Spring 2020

# 13 Applied Business Correspondence, 2 units, 2 lecture hours, (Formerly Business Information Processing 62)

Change: advisory effective Spring 2020

# 23 Job Search and Workplace Skills, 3 units, 3 lecture hours Advisory: None.

Change: advisory, description

effective Spring 2020

# 24 Beginning Excel, 1 unit, 1 lecture hour, (See also Computer Information Technology 31), (Formerly Business Information Processing 24)

Advisory: None.

Creating a worksheet, formatting the worksheet, using formulas and functions, enhancing the display of workbooks, and creating graphs. Cross-listed with CIT-31. (A, CSU)

Change: advisory effective Spring 2020

# 28 Microsoft Word I, 1.5 units, 1.5 lecture hours, (Formerly Business Information Processing 28) Advisory: Business & Technology 106.

Change: prerequisite, advisory

effective Spring 2020

# 29 Microsoft Word II, 1.5 units, 1.5 lecture hours 1 lab hour, (Formerly Business Information Processing 29)
Prerequisite: Business & Technology 28. Advisory: None.

Change: course number, advisory

effective Spring 2020

# 31 21st Century Workforce Skills, 1.5 units, 1.5 lecture hours, (Formerly Business & Technology 32) Advisory: None.

Change: advisory effective Spring 2020

# 33 Social Media and Emerging Technologies in the Workplace, 3 units, 2 lecture hours, 3 lab hours Advisory: Business & Technology 106.

Change: advisory effective Spring 2020

# 106 Computer Keyboarding, 1.5 units, 1 lecture hour, 1.5 lab hours, (Formerly Business Information Processing 6 and Business & Technology 6)

Advisory: None.

Change: advisory effective Spring 2020

# 112 Business English, 3 units, 3 lecture hours, (Formerly Business Information Processing 59 and Business & Technology 12)

Advisory: None.

Change: advisory effective Spring 2020

# 115 Refresher Math, 3 units, 3 lecture hours, (Formerly Business General Office 53 and Business & Technology 15)

Advisory: None.

Course deleted effective Spring 2020

# 116 Spelling and Vocabulary Building, 2 units, 2 lecture hours, (Formerly BSS 61, Business General Office 61 and Business & Technology 16)

Change: advisory effective Spring 2020

# 120 Resume/Interview, 1 unit, 1 lecture hour, (Formerly Business General Office 59 and 59A and Business & Technology 20)

Advisory: None.

Course deleted effective Spring 2020

# 121 Working Relationships, 1.5 units, 1.5 lecture hours, (Formerly Business General Office 59B and Business & Technology 21)

Change: advisory effective Spring 2020

# 126 Automated Business Records, 1 unit, 1 lecture hour, 1 lab hour, (Formerly Business & Technology 206)
Advisory: None.

Change: advisory effective Spring 2020

# 127 Microsoft Outlook and E-Mail, 1 unit, 1 lecture hour, 1 lab hour

Advisory: None.

Change: advisory effective Spring 2020

# 130 Beginning PowerPoint, 1 unit, 1 lecture hour, 1 lab hour

Advisory: None.

Change: advisory effective Spring 2020

# 131 Applied Accounting, 3.5 units, 3 lecture hours, 2 lab hours, (Formerly Business General Office 51 and Business & Technology 31)

Advisory: None.

Change: advisory effective Spring 2020

# 132 Customer Service in the One-Person Office, 3 units, 2 lecture hours, 3 lab hours

Advisory: None.

Course deleted effective Spring 2020

# 134 Exploration of Careers in Business, 1 units, 1 lecture hour, 1 lab hour

Change: advisory effective Spring 2020

# 135 Capstone - One-Person Office, 3 units, 2 lecture hours, 3 lab hours

Advisory: Business & Technology 106.

Change: advisory effective Spring 2020

# 143 Medical Office Vocabulary, 1 unit, 1 lecture hour

Advisory: None.

Change: advisory effective Spring 2020

# 144 Medical Administrative Assistant, 2.5 units, 2 lecture hours, 2 lab hours, (Formerly BSS 58, Business General Office 58, and Business & Technology 44)

Advisory: None.

Change: advisory effective Spring 2020

# 147 Medical Management Software, 2 units, 1 lecture hour, 3 lab hours, (Formerly Business Information Processing 63 and Business & Technology 47)

Advisory: None.

Change: advisory, description

effective Spring 2020

# 148 Medical Insurance & Billing Concepts, 2.5 units, 2 lecture hours, 2 lab hours, (Formerly BSS 64, Business General Office 64, and Business & Technology 48)

Advisory: None.

Interpret health insurance plans, complete various medical forms used in a medical office, and utilize ICD-10 and CPT codes. (A)

Course deleted effective Spring 2020

# 271 Business Grammar Fundamentals, 2 units, 2 lecture hours, (Formerly Business Information Processing 71 and Business & Technology 71)

New course effective Spring 2020

# 331 21st Century Workforce Skills, 1.5 lecture hours

Prerequisite: None.

Project-based course designed to help students develop the 'soft' skills needed to succeed in today's changing workplace. Course topics will include the changing global economy, the rise of entrepreneurial-ism, how to be a competitive job seeker, and the top ten soft skills which include adaptability, analysis/solution mindset, collaboration, communication, digital fluency, entrepreneurial mindset, empathy, resilience, self-awareness, and social/diversity awareness. Supplementary items may include career/personality assessments that require a fee.

Change: hours effective Spring 2020

# 375A Introduction to Keyboarding, 4 lab hours, (Retakes = 5), (Open Entry/Open Exit)

Change: hours, description effective Spring 2020

# 375B Introduction to Filing, 1.56 lab hours, (Retakes = 5), (Open Entry/Open Exit)

Prerequisite: None.

An introduction to filing methods and principles. Utilize the 12 rules of filing which include alphabetic, geographic, numeric, government, and subject filing.

Change: hours effective Spring 2020

# 375C Basic Office Communications, 1.78 lecture hours, 2.67 lab hours, (Retakes = 5), (Open Entry/Open Exit)

Change: hours effective Spring 2020

# 375D Math Review and Ten-Key Calculator, 3.3 lab hours, (Retakes = 5), (Open Entry/Open Exit)

Change: hours, retake policy effective Spring 2020

# 377 Getting Started with Computers and Workplace Technology, 0.84 lecture hours, 0.83 lab hours, (Retakes = 5), (Pass/No Pass)

### **Chemistry (CHEM)**

Change: prerequisite effective Spring 2020

# 1A General Chemistry, 5 units, 3 lecture hours, 6 lab hours

**Prerequisite:** Mathematics 3A and Chemistry 3A or Chemistry 101P or high school chemistry with laboratory component. **Advisory:** Eligibility for English 1A recommended.

Change: prerequisite effective Spring 2020

# 3A Introductory General Chemistry, 4 units, 3 lecture hour, 3 lab hours, (Replaces CHEM 2A-2B)
Prerequisite: Mathematics 3A or 103. Advisory: Eligibility for English 1A recommended.

# **Communication (COMM)**

Change: description effective Spring 2020

26 Intercollegiate Forensics Laboratory, 1-3 units, 1 lecture hour, 1-6 lab hours, (Retakes = 3), (Formerly Speech 26)

Advisory: Eligibility for English 1A recommended.

Competitive and practical experience in debate and public speaking. In addition to the class or activity hour each week on campus, students must attend intercollegiate tournaments for a specified number of days.

# **Computer Information Technology (CIT)**

Change: advisory, description

effective Spring 2020

# 31 Beginning Excel, 1 unit, 1 lecture hour, (See also Business & Technology 24), (Formerly Information Systems 24 and 74)

Advisory: None.

Creating a worksheet, formatting the worksheet, using formulas and functions, enhancing the display of workbooks, and creating graphs. Cross-listed with BT-24. (A, CSU)

Change: units, hours, advisory

effective Spring 2020

48B A+ and Security Principles, 4 units, 4 lecture hours, 1 lab hour, (Formerly Information Systems 238, Computer Information Technology 238, and Computer Information Technology 48)

Advisory: Computer Information Technology 15.

effective Spring 2020

effective Spring 2020

New course effective Spring 2020

59 Linux System Administration, 3 units, 2 lecture hours, 3 lab hours

**Advisory:** Computer Information Technology 48A and 48B.

Provides a technical overview of the Linux operating system, including hands-on experience with commands, files, and tools. Topics include basic Linux commands, files and directories, text editing, electronic mail, pipes and filters, X Windows, shell environments, and scripting. Required for students wishing to pursue the Linux track preparing for industry certification. (A, CSU)

### Criminology (CRIM)

New course effective Spring 2020

Probation and Parole, 3 units, 3 lecture hours # 28

Advisory: Eligibility for English 1A recommended.

Examine the history, development, and current practices of probation and parole, analyze the current trends and issues of community-based corrections and alternatives for offenders. (A, CSU)

### Dance (DANCE)

Change: advisory effective Spring 2020

#8 Hip Hop Technique, 1 unit, 3 lab hours Advisory: None.

Change: advisory effective Spring 2020

Dance Conditioning, 1 unit, 3 lab hours #9 Advisory: None.

Change: advisory effective Spring 2020

Beginning Modern Dance Technique, 1 unit, 3 lab hours, (Formerly Physical Education 4 and Dance 10) Advisory: None.

Change: advisory effective Spring 2020

Pre-Intermediate Modern Dance Technique, 1 unit, 3 lab hours

Prerequisite: Dance 10A or appropriate dance experience as determined by the instructor. Advisory: None.

Change: advisory effective Spring 2020

Beginning Ballet Part 1, 1 unit, 3 lab hours, (Formerly Dance 12 and Physical Education 26) Advisory: None.

Change: prerequisite, advisory, description

Beginning Ballet Part 2, 1 unit, 3 lab hours

Prerequisite: Dance 12A. Advisory: None.

Pre-intermediate-level technique of classical Ballet using barre exercises and center work, learning more Ballet technique and terminology for the pre-intermediate students. (A, CSU, UC)

Change: prerequisite, advisory

effective Spring 2020

Intermediate Ballet Technique, 1.5 units, 1 lecture hour, 2 lab hours

Prerequisite: Dance 12B or appropriate dance experience as determined by instructor. Advisory: None.

Change: prerequisite, advisory Pre-Advanced Ballet Technique, 1.5 units, 1 lecture hour, 2 lab hours

Prerequisite: Dance 13A or appropriate dance experience as determined by instructor. Advisory: None.

Change: advisory effective Spring 2020

Beginning Jazz Dance Technique, 1 unit, 3 lab hours, (Formerly Physical Education 270) # 14 Advisory: None.

Change: advisory effective Spring 2020

Intermediate Jazz Dance Technique, 1 unit, 3 lab hours # 15

Prerequisite: Dance 14 or demonstration of comparable skill level to be determined by testing or video portfolio of past jazz dance performance work. Advisory: None.

Change: advisory effective Spring 2020

# 16 Beginning Tap Dance, 0.5 unit, 2 lab hours

Advisory: None.

Change: advisory effective Spring 2020

# 1-.18 Intermediate Tap Dance, 0.5 unit, 2 lab hours

**Prerequisite:** Dance 16 or appropriate previous tap dance experience as determined by the instructor. **Advisory:** None.

Change: advisory effective Spring 2020

# 20A Beginning Modern Dance Composition, 3 units, 2 lecture hours, 3 lab hours, (Formerly Physical Education 20A)

Advisory: Dance 10A.

Change: prerequisite, advisory

effective Spring 2020

# 20B Intermediate Modern Dance Composition, 3 units, 2 lecture hours, 3 lab hours, (Formerly Physical Education 20B)

Prerequisite: Dance 20A. Advisory: None.

Change: title, prerequisite, advisory

effective Spring 2020

# 21 Fall Dance Concert 1, 2-4 units, 1 lecture hour, 3-9 lab hours, (Formerly Physical Education 21)

**Prerequisite:** For Choreographers: Demonstration of comparable skill level to be determined by Artistic Director through testing and/or video portfolio of past Modern Dance, Jazz, or Ballet performance work. For Performers: previous Modern dance, Jazz, or Ballet experience or concurrent enrollment in Ballet, Jazz, or Modern dance. **Advisory:** None.

Change: title, prerequisite, advisory

effective Spring 2020

# 22 Spring Dance Concert 1, 2-4 units, 1 lecture hour, 3-9 lab hours, (Formerly Physical Education 22)

**Prerequisite:** For Choreographers: Demonstration of comparable skill level to be determined by Artistic Director through testing and/or video portfolio of past Modern Dance, Jazz, or Ballet performance work. For Performers: Current intermediate competency in Ballet, Jazz, or Modern Dance or concurrent enrollment in Ballet, Jazz or Modern Dance. **Advisory:** None.

Change: corequisite, advisory, description

effective Spring 2020

# 26 American College Dance Festival, 1.5 units, 2 lecture hours, 5 lab hours, (9 weeks), (Retakes = 3) Coreguisite: Dance 21, 22, 31, or 32. Advisory: None.

Preparation of dance participants for attendance at the American College Dance Festival. Participation in master classes and participation/attendance at adjudication concerts. Participation/coordination of FCC National Dance Day Event. (A, CSU)

Change: course number, advisory

effective Spring 2020

# 28A Intermediate Modern Dance Technique, 1.5 units, 1 lecture hour, 2 lab hours, (Formerly Dance 28)
Prerequisite: Dance 10B. Advisory: None.

Change: units, hours

effective Spring 2020

# 28B Pre-Advanced Modern Dance Technique, 1.5 units, 1 lecture hour, 2 lab hours

Change: description

effective Spring 2020

#30 Dance Appreciation, 3 units, 3 lecture hours

Advisory: Eligibility for English 1A recommended.

Survey of dance as a historical form of cultural and theatrical expression. Emphasis on the growth of ballet, modern and jazz dance from their origins to the current trends in the United States. Dance 30 does not meet the Physical Education requirement. (A, CSU-GE, UC, I)

Change: title, advisory

effective Spring 2020

# 31 Fall Dance Concert 2, 2-4 units, 1 lecture hour, 3-9 lab hours

Prerequisite: Dance 21. Advisory: None.

Change: title, advisory, description

effective Spring 2020

# 32 Spring Dance Concert 2, 2-4 units, 1 lecture hour, 3-9 lab hours

Prerequisite: Dance 22. Advisory: None.

Intermediate/advanced-level dance technique and conditioning, improvisation, choreography, rehearsal, and performance for formal theatrical presentation. Includes opportunities for support activities for the production. (A, CSU, UC)

### **Decision Science (DS)**

New course effective Spring 2020

# 44 Introduction to Predictive Modeling, 3 units, 3 lecture hours, 1 lab hour

Prerequisite: Decision Science 21 and 23.

Predictive analytics project lifecycles, data preparation, feature design, and model deployment. (A, CSU)

### **Dental Hygiene (DH)**

Change: units, hours effective Spring 2020

1B General and Oral Pathology, 3 units, 3 lecture hours

Change: title, units, hours, description

effective Spring 2020

1D Applied Specialties, 1.5 units, 1.5 lecture hours

**Prerequisite:** Dental Hygiene 1C, 5B, 6B, 7A, and 13. **Corequisite:** Dental Hygiene 3B, 5C, 7B, 8B, 9, and 14. The history and relationship of dental specialties within the broad scope of dentistry. Current concepts and future possibilities relevant to the practice of dental specialties; and dental hygienists' ethical and clinical responsibility in the treatment of periodontal disorders. Relationship of the dental specialty practice of periodontics within the broad scope of dentistry. (A, CSU)

Change: description, grade option

effective Spring 2020

# 5A Clinical Dental Hygiene I, 2.5 units, 8 lab hours

**Prerequisite:** Dental Hygiene 1A, 3A, 4, and 10. **Corequisite:** Dental Hygiene 1B, 2, 6A, 8A, 11, and 12. Beginning experience in the dental hygiene process of care for treatment of pediatric, adolescent and adult patients; various clinical procedures including scaling and polishing techniques; oral inspection, dental and periodontal charting, principles of powered instrumentation, radiographic techniques, biofilm control instructions, and application of preventive agents. (A, CSU)

Change: grade option, description

effective Spring 2020

5C Clinical Dental Hygiene III, 5 units, 16 lab hours

**Prerequisite:** Dental Hygiene 1C, 5B, 6B, 7A, and 13. **Corequisite:** Dental Hygiene 1D, 3B, 7B, 8B, 9, and 14. Advanced experience in patient treatment procedures; includes principles and procedures of Dental Hygiene 5A and Dental Hygiene 5B plus the techniques of site specific chemotherapeutic agents. (A, CSU)

Change: units, hours, description

effective Spring 2020

6B Pharmacology, 2 units, 2 lecture hours

**Prerequisite:** Dental Hygiene 1B, 2, 5A, 6A, 8A, 11, and 12. **Corequisite:** Dental Hygiene 1C, 5B, 7A, and 13. Sources, dosages, therapeutic action, and side effects of drugs used in dentistry; classification, administration, and effects of drugs; pharmacology, and pharmacokinetics of drugs. (A, CSU)

Change: units, hours, corequisite, description

effective Spring 2020

7B Community Dental Health II, 2 units, 2 lecture hours

**Prerequisite:** Dental Hygiene 1C, 5B, 6B, 7A, and 13. **Corequisite:** Dental Hygiene 1D, 3B, 5C, 8B, 9, and 14. Community dental health; implementation of target group dental health project; tobacco cessation program; health care delivery systems; presentation of dental care methods; community outreach community, fluoridation and bio-statistics. (A, CSU)

Change: title, units, hours, description

effective Spring 2020

Pain Management, 4 units, 2 lecture hours, 6 lab hours

Prerequisite: Dental Hygiene 1A, 3A, 4, and 10. Corequisite: Dental Hygiene 1B, 2, 5A, 6A, 8A, and 12.

Concepts of pain and pain control; anatomy of the trigeminal nerve, physiology of nerve conduction, and the blockage of nerve impulses. Pharmacology and physiology of topical and local anesthetic agents and nitrous oxide/oxygen gas. Preparation of the armamentarium for local anesthetic injections and techniques of regional anesthesia in dentistry. Clinical application and performance of topical, supraperiosteal and block techniques to anesthetize the oral cavity. Preparation of the armamentarium and techniques for the administration of nitrous oxide-oxygen analgesia in dentistry. Therapeutic action, side effects, overdose and management procedures of anesthetic drugs, analgesic gases and sedation drugs in dentistry. (A, CSU)

### **Developmental Services (DEVSER)**

Change: title, units, hours, prerequisite, advisory, description

effective Spring 2020

# 250 Career Awareness, 4 units, 4 lecture hours, (Pass/No Pass)

**Advisory:** Counselor placement.

Emphasizes the development of tools, ideas, and strategies designed to be the blueprints for obtaining and retaining a job. Attitude and personality traits will merge with goal setting and life management skills enabling students to better link personal issues to long-term career success. Designed for students with disabilities.

Course deleted effective Spring 2020

# 251 Workability Portfolio and Interview Development, 3 units, 2 lecture hours, 3 lab hours

New course effective Spring 2020

# 252A Communication Skills and Strategies 1, 4 units, 4 lecture hours, (Pass/No Pass)

Advisory: Counselor placement.

Emphasizes developing foundational communication skills and social skills at home, school, and in the community, using a variety of basic skills. Expanding basic communication skills including the various ways people communicate, appropriate versus inappropriate communication, the different messages we send, styles of communication, and using communication for general conflict resolution. Designed for students with disabilities.

Change: course number, title, units, hours, prerequisite, advisory, description

effective Spring 2020

# 252B Communication Skills and Strategies 2, 4 units, 4 lecture hours, (Pass/No Pass), (Formerly Developmental Services 252)

Advisory: Counselor placement.

Emphasizes developing strategies in the workplace and personal life related to personal disability, work ethics, communication and socialization important for employment. Expanding communication skills as a vehicle for solving problems. Designed for students with disabilities.

Change: title, hours, prerequisite, advisory, description

effective Spring 2020

# 260 Job Search, Employment Portfolio, and Interview Development, 3 units, 3 lecture hours, 1 lab hour, (Pass/No Pass), (Formerly Developmental Services 60)

Advisory: Counselor placement.

Emphasizes the development of job search strategies including online applications, social networking sites, internet job search sites, creating and utilizing a professional network. Students will complete portfolios which will include the following: Resumes, cover letters, letters of recommendation, and references. Students will develop and demonstrate interview skills. Students will develop and maintain a job search log during their job search process. Designed for students with disabilities.

Change: title, units, hours, prerequisite, advisory, description

effective Spring 2020

# 262 Group Interaction, 3 units, 3 lecture hours, (Pass/No Pass), (Formerly Developmental Services 62)
Advisory: Counselor placement.

Development and improvement of self-understanding through group interactions. Designed for students with disabilities.

Change: prerequisite, advisory, description

effective Spring 2020

# 264 Transition to College for Students with Disabilities, 1 unit, 1 lecture hour, (Pass/No Pass)

Advisory: Counselor placement.

Assist students with disabilities in preparing for initial semester in a community college. Navigation of State Center Community College District campuses, resources, academic policies, procedures and services. Course content will cover issues related to accommodations and resources available to students with disabilities to enable them to be successful in a college setting, including disability evaluation and assessment, alternative media, course selection, and scheduling. Designed for students with disabilities.

Change: prerequisite, advisory, description

effective Spring 2020

# 272 Consumer Skills, 2 units, 6 lab hours, (Pass/No Pass), (Formerly Developmental Services 72)
Advisory: Counselor placement.

Emphasis on home and money management, health, hygiene and safety, food and nutrition. Designed for students with disabilities.

Change: title, prerequisite, advisory, description

effective Spring 2020

# 273 Independent Living Skills for Students in DSP&S, 2 units, 6 lab hours, (Pass/No Pass), (Formerly Developmental Services 73)

Advisory: Counselor placement.

Basic independent living skills; including appropriate social interaction, self-advocacy, self-care, community involvement, personal choice and managing life events. Designed for students with disabilities.

Change: prerequisite, advisory, description

effective Spring 2020

Horticulture Skills I, 2 units, 6 lab hours, (Pass/No Pass), (Formerly Developmental Services 75) # 275 **Advisory:** Counselor placement.

Basic techniques of foliage plant care and growing vegetables and ornamentals, with emphasis on transferable employment skills. Designed for students with disabilities.

Change: prerequisite, advisory, description

effective Spring 2020

Horticulture Skills II, 2 units, 6 lab hours, (Pass/No Pass), (Formerly Developmental Services 76) Advisory: Developmental Services 275. Counselor placement.

Intermediate techniques of foliage plant care and growing vegetables with emphasis on transferable employment skills. Designed for students with disabilities.

Change: title, units, hours, prerequisite, advisory, description

effective Spring 2020

Beginning Computer Literacy, 4 units, 4 lecture hours, (Pass/No Pass), (Formerly Developmental Services 77) Advisory: Counselor placement.

Introduction to computers and commonly used microcomputer applications. Emphasis on computer use and adaptation. In depth coverage of computers and their impact in society. Designed for students with disabilities.

Change: title, units, hours, prerequisite, advisory, description

effective Spring 2020

Basic Word Processing for Work, 3 units, 3 lecture hours, 1 lab hour, (Pass/No Pass), (Formerly **Developmental Services 78)** 

Advisory: Counselor placement.

Basic word processing terminology and understanding of Microsoft Word. Designed for students with disabilities.

Change: title, units, hours, prerequisite, advisory, description

effective Spring 2020

Basic Modified Computer Applications, 3 units, 3 lecture hours, 1 lab hour, (Pass/No Pass), (Formerly **Developmental Services 79)** 

Advisory: Counselor placement.

Expansion and enhancement of word processing, data management, spreadsheet, and other highly marketable microcomputer applications. Designed for students with disabilities.

Change: prerequisite, description

effective Spring 2020

Greenhouse Workforce Prep, 3 units, 9 lab hours, (Pass/No Pass), (Formerly Developmental Services 82) # 282 Advisory: Developmental Services 275 and 276.

Introduction to vocational training in an actual working greenhouse. Assists students in preparing for success in future employment. Topics include ornamental and vegetable plant growing and care, occupational behavior and interpersonal skill development. Designed for students with disabilities.

Change: discipline, course number, title, grade option, units, hours, prerequisite, advisory, description

effective Spring 2020

# 283 Reading Comprehension 1, 4 units, 4 lecture hours, (Pass/No Pass), (Formerly English 77 and English 277) Advisory: Counselor placement. Prior to entering this course, students should be comfortable reading beginning college level material. Not recommended for students learning English as a second language.

Development of reading readiness skills through learning main ideas and important details; builds on already existing reading skills. Designed for students with disabilities. Prepares students for DEVSER 284.

Change: discipline, course number, title, units, hours, prerequisite, advisory, description effective Spring 2020 Reading Comprehension 2, 4 units, 4 lecture hours, (Pass/No Pass), (Formerly English 78 and English 278)

Advisory: Counselor placement. Not recommended for students learning English as a second language.

Further development of reading skills and strategies while developing literal and critical comprehension. Designed for

students with disabilities.

Change: discipline, course number, title, prerequisite, advisory, description

effective Spring 2020

Paragraphs to Essays, 2.5 units, 2 lecture hours, 2 lab hours, (Pass/No Pass), (Formerly English 81 and # 285 English 281)

Advisory: Counselor placement. Prior to entering this course, it is recommended that students be able to compose an organized paragraph. Not recommended for students learning English as a second language.

Development of a basic understanding of paragraph and essay structures. Identification of possible essay topics and develop an ability to find and correct grammatical errors. Designed for students with disabilities. Prepares students for DEVSER 286.

Change: discipline, course number, title, prerequisite, advisory, description

effective Spring 2020

# 286 Essay Development and College Writing, 2.5 units, 2 lecture hours, 2 lab hours, (Pass/No Pass), (Formerly English 82 and English 282)

**Advisory:** Counselor placement. Prior to entering this course, it is recommended that students be able to compose a short, organized paragraph. Not recommended for students learning English as a second language.

Further development of college writing skills through composition, revision, and beginning research strategies. Designed for students with disabilities.

Change: prerequisite, advisory, description

effective Spring 2020

# 291 Strategies for Academic Success, 2 units, 2 lecture hours, (Pass/No Pass)

Advisory: Counselor placement.

Identification of learning strengths and weaknesses, educational, personal, career goals, study principles, methods and strategies to achieve them. Designed for students with disabilities.

Change: title, prerequisite, advisory, description

effective Spring 2020

292 Learning Skills and Strategies, 2 units, 2 lecture hours, (Pass/No Pass)

Advisory: Counselor placement.

Development of college survival skills. Emphasis on time management, note-taking, test taking, library skills, improvement of communication skills, and career exploration. Designed for students with disabilities.

Change: title, retakes, prerequisite, advisory, description

effective Spring 2020

# 359 Learning Assessment, 8 lab hours, (Pass/No Pass), (Open Entry/Open Exit), (Retakes = 4), (Formerly Developmental Services 59)

**Advisory:** Counselor placement.

Learning Assessment is designed to identify learning strengths and deficits, and to provide information to DSP&S for verification of a disability and accommodations needed. Designed for students with disabilities.

### **English for Multi-Lingual Students (EMLS)**

Course deleted effective Fall 2019

265R High Intermediate Academic Reading and Vocabulary, 4 units, 4 lecture hours, (Pass/No Pass), (Formerly English as a Second Language 65R and 265R)

Course deleted effective Fall 2019

265W High Intermediate Academic Writing and Grammar, 4 units, 4 lecture hours, (Pass/No Pass), (Formerly English 54C and English as a Second Language 65, 65W, and 265W)

Change: prerequisite effective Spring 2020

284RW Intermediate Academic Reading and Writing, 5 units, 5 lecture hours, (Pass/No Pass)

Prerequisite: English for Multi-Lingual Students 263RW or 363RW, or 263R and 263W.

Change: prerequisite effective Spring 2020

285RW High-Intermediate Academic Reading and Writing, 5 units, 5 lecture hours, (Pass/No Pass)

Prerequisite: English for Multi-Lingual Students 284RW or 384RW, or 264R and 264W.

New course effective Spring 2020

# 364RAIntermediate Reading and Vocabulary A, 1 lecture hour, (Pass/No Pass), (Retakes = 3)

Prerequisite: None.

This intermediate level course is designed to develop the students' reading skills and strategies that aid in the literal interpretation of a given text, increase academic vocabulary, and develop metacognition in preparation for EMLS 364RB and other mainstream classes.

New course effective Spring 2020

# 364RBIntermediate Reading and Vocabulary B, 1 lecture hour, (Pass/No Pass), (Retakes = 3) Prerequisite: None.

This intermediate level course is design to develop the students' reading skills and strategies that aid in analyzing a given text, increase academic vocabulary develop, and develop metacognition in preparation for EMLS 364RC and other mainstream classes.

New course effective Spring 2020

# 364RCIntermediate Reading and Vocabulary C, 1 lecture hour, (Pass/No Pass), (Retakes = 3) Prerequisite: None.

This intermediate level course is design to develop the students' reading skills and strategies that aid in evaluating a given text, increase academic vocabulary, and develop metacognition in preparation for EMLS 365R and other mainstream classes.

New course effective Spring 2020

# 371A Low-Intermediate Pronunciation Improvement and Accent Reduction, 1 lecture hour, (Pass/No Pass), (Retakes = 3)

Prerequisite: None.

This non-credit course is for EMLS students at the Low Intermediate level to improve oral communication (listening/speaking) skills including phonetic accuracy and fluency. Improving oral communication skills results in greater speaker confidence and intelligibility.

New course effective Spring 2020

# 371B High-Intermediate Pronunciation Improvement and Accent Reduction, 1 lecture hour, (Pass/No Pass), (Retakes = 3)

Prerequisite: None.

This non-credit course is for EMLS students at the high-intermediate level to improve oral communication (listening/speaking) skills including phonetic accuracy and fluency. Improving oral communication skills results in greater speaker confidence and intelligibility.

New course effective Spring 2020

# 371C Advanced Pronunciation Improvement and Accent Reduction, 1 lecture hour, (Pass/No Pass), (Retakes = 3)

Prerequisite: None.

This non-credit course is for EMLS students at the advanced level to improve oral communication (listening/speaking) skills including phonetic accuracy and fluency. Improving oral communication skills results in greater speaker confidence and intelligibility.

New course effective Spring 2020

# 372A Low-Intermediate Academic Grammar, 1 lecture hour, (Pass/No Pass), (Retakes = 3) Prerequisite: None.

This non-credit grammar skills course is designed for speakers of other languages who want to comprehend and use grammar structures in written and oral academic English. This low-intermediate course may be taken concurrently with other EMLS courses.

New course effective Spring 2020

# 372B High-Intermediate Academic Grammar, 1 lecture hour, (Pass/No Pass), (Retakes = 3)
Prerequisite: None.

This non-credit grammar skills course is designed for speakers of other languages who want to comprehend and use grammar structures in written and oral academic English. This high-intermediate course may be taken concurrently with other EMLS courses.

New course effective Spring 2020

# 372C Advanced Academic Grammar, 1 lecture hour, (Pass/No Pass), (Retakes = 3) Prerequisite: None.

This non-credit grammar skills course is designed for speakers of other languages who want to comprehend and use grammar structures in written and oral academic English. This advanced course may be taken concurrently with other EMLS courses.

New course effective Spring 2020

# 373A Low-Intermediate Listening and Speaking, 1 lecture hour, (Pass/No Pass), (Retakes = 3) Prerequisite: None.

A non-credit listening and speaking course designed for multi-lingual speakers who wish to develop their oral language skills at the low-intermediate level. This course can be taken concurrently with other English for Multi-Lingual Students courses.

New course effective Spring 2020

# 373B High-Intermediate Listening and Speaking, 1 lecture hour, (Pass/No Pass), (Retakes = 3) Prerequisite: None.

A non-credit listening and speaking course designed for multi-lingual speakers who wish to develop their oral language skills at the high-intermediate level. This course can be taken concurrently with other English for Multi-Lingual Students courses.

New course effective Spring 2020

# 373C Advanced Listening and Speaking, 1 lecture hour, (Pass/No Pass), (Retakes = 3) Prerequisite: None.

A non-credit listening and speaking course designed for multi-lingual speakers who wish to develop their oral language skills at the advanced level. This course can be taken concurrently with other English for Multi-Lingual Students courses.

### Fire Technology (FIRET)

Change: course number effective Spring 2020

22A Firefighter II Part A, 2 units, 1.87 lecture hours, 0.47 lab hour, (Formerly Fire Technology 222A)

Change: course number effective Spring 2020

22B Firefighter II Part B, 3 units, 2.7 lecture hours, 1.79 lab hour, (Formerly Fire Technology 222B)

Change: units, hours effective Spring 2020

130A Basic Fire Academy - Part 1, 14.5 units, 8 lecture hours, 20 lab hours

Change: units, hours effective Spring 2020

130B Basic Fire Academy - Part 2, 14.5 units, 8.42 lecture hours, 19.5 lab hours

# **Geology (GEOL)**

Course deleted effective Spring 2020

# 7 Natural History of Dinosaurs, 3 units, 3 lecture hours

Course deleted effective Spring 2020

# 8 Geology of Moons and Planets, 3 units, 3 lecture hours

Change: advisory effective Spring 2020

# 12 Environmental Science, 3 units, 3 lecture hours, (Formerly Environmental Science 7)
Advisory: Knowledge of basic algebra. Eligibility for English 1A recommended.

### **Graphic Communications (GRC)**

New course effective Summer 2020

55 Social Media Design, 2 units, 2 lecture hours, 1 lab hour

Prerequisite: None.

Graphic design principles and processes directly related to current social media platforms and interactions. (A, CSU)

# **Health Information Technology (HIT)**

Change: description effective Spring 2020

# 1 Introduction to Health Information Management, 3 units, 3 lecture hours, (Formerly Medical Records Technology 1)

**Advisory:** Eligibility for English 1A recommended.

Introduction to health care delivery systems, hospital organization, the medical record, the processes of health information management including access, retention, data collection, quantitative and qualitative analysis, and health information systems; accreditation, licensure, and regulatory requirements; the role of the health information management professional. (A, CSU)

Change: prerequisite effective Spring 2020

# 4 Disease Process, 3 units, 3 lecture hours

**Prerequisite:** Biology 5 or 55 and Health Information Technology 10. **Advisory:** Eligibility for English 1A recommended.

Change: title, prerequisite, description

effective Spring 2020

# 5 ICD Coding: Diagnoses, 3 units, 3 lecture hours

Prerequisite: Health Information Technology 1 and 10. Corequisite: Health Information Technology 4. Advisory: Eligibility for English 1A recommended.

Medical coding of diagnoses using the International Classification of Diseases (ICD); overview of nomenclatures and classification systems; coding rules, principles, guidelines, and conventions; state and federal regulations impacting coding; documentation to support coding. Introduction to coding software applications. (A, CSU)

Change: title, prerequisite, corequisite, description

effective Spring 2020

# 6 ICD Coding: Procedures, 3 units, 3 lecture hours

**Prerequisite:** Health Information Technology 1 and 10. **Corequisite:** Health Information Technology 4. **Advisory:** Eligibility for English 1A recommended.

Medical coding of procedures using the International Classification of Diseases - Procedure Coding System; coding rules, principles, guidelines, and conventions; regulations impacting coding; documentation to support coding. Use of coding software applications. (A, CSU)

Change: units, hours, grade option, prerequisite, corequisite, description

effective Spring 2020

#7 Directed Practice, 3 units, 1 lecture hour, 6 lab hours

**Prerequisite:** Health Information Technology 2, 3, 5, 6, and 14. **Corequisite:** Health Information Technology 8 and 16. **Advisory:** Eligibility for English 1A recommended.

Practical application of advanced principles and practices of health information technology; directed practice combines a supervised field experience performing HIT competencies in an affiliated healthcare organization with virtual laboratory skills practice. (A, CSU)

Change: description effective Spring 2020

#8 Health Information Management and Supervision, 3 units, 3 lecture hours

Prerequisite: Health Information Technology 1. Advisory: Eligibility for English 1A recommended.

Effective management of technical and human factors in health information management: leadership, work design and process improvement, human resources, training and development, strategic and organizational management, financial management, project management, cultural diversity, and ethics. (A, CSU)

Change: advisory effective Spring 2020

# 9 Hospital and Health Statistics, 2 units, 2 lecture hours

**Prerequisite:** Computer Information Technology 15 and Health Information Technology 1. **Advisory:** Eligibility for English 1A recommended. Math 11 or equivalent recommended.

Change: prerequisite, description

effective Spring 2020

#15 Medical Coding Directed Practice, 1 units, 3 lecture hours, (Pass/No Pass)

**Prerequisite:** Health Information Technology 5 and 6. **Corequisite:** Health Information Technology 11. **Advisory:** Eligibility for English 1A recommended.

Supervised practice of diagnostic and procedure coding; demonstration of knowledge in regulatory compliance, revenue cycle, and reimbursement methodologies. Practice with AHIMA Virtual Lab encoding and revenue cycle applications. (A, CSU)

# Heating, Ventilation, and Air Conditioning (HVAC)

Course deleted effective Spring 2020

56 HVAC System Installation, 2 units, 1 lecture hour, 3 lab hours, (Formerly Air Conditioning 53 and 56)

Course deleted effective Spring 2020

57 HVAC Digital Control Principles, 2 units, 2 lecture hours, 1 lab hour, (Formerly Air Conditioning 57)

Course deleted effective Spring 2020

150 Wireless HVAC Controls, 2 units, 2 lecture hours, 1 lab hour

# **Learning Assistance (LA)**

New course effective Spring 2020

# 360 High School Equivalency Preparation, 3 lab hours, (Retakes = 99), (Pass/No Pass), (Open Entry/Open Exit)
Prerequisite: None.

The High School Equivalency (HSE) Preparation course equips individuals with the skills and knowledge base necessary to pass the HSE exam. Students review the five examination content areas (language arts-reading and writing, mathematics, social sciences, and science) with particular emphasis on writing and math. Instructors will assess individual skill levels to help the student focus on tutoring weaknesses into strengths.

### **Manufacturing Mechanic (MFGMCTC)**

Change: hours effective Spring 2020

352C Job Preparation, 0.25 lecture hour, 0.75 lab hour, (Pass/No Pass)

Change: hours effective Spring 2020

352D Technical Report Writing, 0.25 lecture hour, 0.75 lab hour, (Pass/No Pass)

### **Mathematics (MATH)**

Change: prerequisite effective Spring 2020

# 5A Mathematical Analysis I, 5 units, 5 lecture hours Prerequisite: Mathematics 4B or 3A and 4A.

### **Medical Assisting (MA)**

Change: advisory effective Spring 2020

# 2 Pharmacology, 3 units, 3 lecture hours

Advisory: Biology 5 or 55. Eligibility for English 1A recommended. Knowledge of basic arithmetic.

Change: advisory effective Spring 2020

# 4 Office Laboratory Procedures, 3 units, 2.5 lecture hours, 2 lab hours

Advisory: Biology 5 or 55. Eligibility for English 1A recommended. Knowledge of basic arithmetic.

Change: advisory effective Spring 2020

# 5 Diagnostic & Therapeutic Procedures, 3 units, 2.5 lecture hours, 2 lab hours

**Prerequisite:** Medical Assisting 4. **Advisory:** Biology 5 or 55. Eligibility for English 1A recommended. Knowledge of basic arithmetic.

Change: advisory effective Spring 2020

# 6A Clinical Training, 3 units, 3 lecture hours, 1 lab hour, (Formerly Medical Assisting 60A)
Advisory: Biology 5 or 55. Eligibility for English 1A recommended.

Change: advisory effective Spring 2020

# 6B Advanced Training, 3 units, 3 lecture hours, 1 lab hour, (Formerly Medical Assisting 60B)

Prerequisite: Medical Assisting 6A. Advisory: Biology 5 or 55. Eligibility for English 1A recommended.

# Military Science (MILSC)

Change: title, advisory, description

#1 Introduction to the U.S. Army and Critical Thinking, 1 unit, 1 lecture hour

Advisory: Eligibility for English 1A recommended.

An introduction to the Army and critical thinking. Introduces Cadets to the Army and the Profession of Arms. Examines the Army Profession and what it means to be a professional in the U.S. Army. Develops basic knowledge and comprehension of the Army Leadership Requirements Model and a complete understanding of the Reserve Officers' Training Corps (ROTC), its purpose, and the advantages for the student. Cadets also learn how resiliency and fitness support their development as Army Leaders. (A, CSU, UC)

Change: title, advisory, description
# 2 Foundations of Agile and Adaptive Leadership, 1 unit, 1 lecture hour

effective Spring 2020

effective Spring 2020

Advisory: Eligibility for English 1A recommended.

Introduces Cadets to the personal challenges and competencies that are critical for effective leadership. Personal development of life skills such as critical thinking, time management, goal setting, and communication. Cadets learn the basics of the communications process and the importance for leaders to develop the essential skills to effectively communicate in the Army. (A, CSU, UC)

Change: title, advisory, description

effective Spring 2020

# 11 Leadership and Decision-Making, 2 units, 2 lecture hours

Advisory: Eligibility for English 1A recommended.

Leadership and decision-making. Application of Troop Leading Procedures (TLP) and Innovative Solutions to Problems in concert with the Principles of Mission Command. The Army Profession is also stressed through leadership forums and a leadership self-assessment. (A, CSU, UC)

Change: title, advisory, description

effective Spring 2020

# 12 Army Doctrine and Team Development, 2 units, 2 lecture hours

Advisory: Eligibility for English 1A recommended.

Army Doctrine and team development. Beginning understanding and demonstration of competencies related to Army doctrine. Army Values, Teamwork, and Warrior Ethos and their relationship to the Law of Land Warfare and the philosophy of military service are also stressed. The ability to lead and follow is also covered through Team Building exercises in small units up to squad level. (A, CSU, UC)

Change: advisory effective Spring 2020

50 Freshman Leadership Laboratory I, 1 units, 3 lab hours, (Formerly Military Science 50A)

Advisory: Eligibility for English 1A recommended.

Change: advisory effective Spring 2020

# 55 Freshman Leadership Lab II, 1 units, 3 lab hours Advisory: Eligibility for English 1A recommended.

Change: advisory effective Spring 2020

# 60 Sophomore Leadership Lab I, 1 units, 3 lab hours, (Formerly Military Science 50B)

Advisory: Eligibility for English 1A recommended.

Change: advisory effective Spring 2020

# 65 Sophomore Leadership Lab II, 1 units, 3 lab hours Advisory: Eligibility for English 1A recommended.

Music (MUS)

Change: advisory, description

effective Spring 2020

8 Audio Engineering, 3 units, 2 lecture hours, 3 lab hours

Advisory: None.

A basic view of the digital recording studio as a sound storage, manipulation, reproduction and post-production facility. Designed for students in music, commercial music and electronic media. (A, CSU, UC)

# **Natural Science (NATSCI)**

Change: description effective Spring 2020

# 1A Integrated Science: Physics and Chemistry, 4 units, 3 lecture hours, 3 lab hours Prerequisite: Mathematics 103. Advisory: Eligibility for English 1A recommended.

Basic concepts of physics and chemistry and their relation to the everyday environment. Includes laboratory and demonstrations with special application to K-6 teachers. Specifically designed to satisfy the requirements of students who intend on transferring to the CSU Liberal Studies Major. (C-ID PHYS 140 and CHEM 140) (A, CSU-GE, UC)

**Physical Education (PE)** 

Change: title effective Spring 2020

41B Competitive Men's Wrestling, 3 units, 9.5 lab hours, (Retakes = 2)

Change: title, description effective Spring 2020

41C Off-Season Conditioning for Men's Wrestling, 1 unit, 3 lab hours, (Retakes = 2)

Advisory: Eligibility for English 1A recommended.

Off-season conditioning activities for Men's wrestling. (A, CSU-GE, UC)

New course effective Spring 2020

46B Competitive Women's Wrestling, 3 units, 9.5 lab hours, (Retakes = 2)

Prerequisite: None.

Designed primarily for students possessing the desire, ability and skills necessary to compete on the intercollegiate level. Prospective participants should confer with the head coach of each sport before enrollment. A minimum of 9.5 hours participation per week during the season of the sport normally is required. (A, CSU)

### **Physical Science (PHYSC)**

Course deleted effective Spring 2020

# 42 Applications of Physical Science, 1-3 units, 1-3 lecture hours, (Pass/No Pass)

# **Physics (PHYS)**

Change: description effective Spring 2020

# 4A Physics for Scientists and Engineers, 4 units, 3 lecture hours, 3 lab hours

Corequisite: Mathematics 5B. Advisory: Eligibility for English 1A recommended.

Classical mechanics: kinematics, Newton's Laws, energy, momentum, gravitation, and fluids. Designed primarily for physics, engineering, and related majors. (C-ID PHYS 205 and PHYS 200S = PHYS 4A + 4B + 4C) (A, CSU-GE, UC, I)

Change: description effective Spring 2020

# 4B Physics for Scientists and Engineers, 4 units, 3 lecture hours, 3 lab hours

Prerequisite: Physics 4A. Corequisite: Mathematics 5B. Advisory: Mathematics 6.

Electricity and magnetism: electrostatics, electric potential, DC circuits, magnetic fields, induction, and AC circuits. Designed primarily for physics, engineering, and related majors. (C-ID PHYS 210 and PHYS 200S = PHYS 4A + 4B + 4C) (A, CSU-GE, UC, I)

Change: description effective Spring 2020

# 4C Physics for Scientists and Engineers, 4 units, 3 lecture hours, 3 lab hours

Prerequisite: Physics 4A. Corequisite: Mathematics 5B. Advisory: Mathematics 6.

Oscillations, waves, thermodynamics, optics, relativity, quantum mechanics, and nuclear physics. Designed primarily for physics, engineering, and related majors. (C-ID PHYS 215 and PHYS 200S = PHYS 4A + 4B + 4C) (A, CSU-GE, UC, I)

# **Political Science (POLSCI)**

New course effective Spring 2020

# 6 California Politics and Government, 1 unit, 1 lecture hour

Advisory: Eligibility for English 1A recommended.

Analysis of the executive, judicial, legislative and local government structures and processes of California Government. (A, CSU)

# Radiation Technology (RAD)

Change: course number effective Spring 2020

Concentrated Clinical Radiologic Technology, 4 units, 13 lab hours, (Formerly Radiation Technology 106)

# Welding Technology (WELD)

Change: advisory effective Spring 2020

# 1 Exploring Welding/Metals, 3 units, 2 lecture hours, 3 lab hours, (Formerly Industrial Education 5)
Advisory: Applied Technology 130. Eligibility for English 1A recommended.

Change: advisory effective Spring 2020

# 2A Introduction to Welding Technology, 6 units, 4 lecture hours, 6 lab hours

Advisory: Applied Technology 130. Eligibility for English 1A recommended.

Change: prerequisite, corequisite

effective Spring 2020

# 3A Welding Design and Fabrication, 5 units, 3 lecture hours, 7 lab hours

Prerequisite: Welding 2B. Corequisite: Computer Aided Drafting & Design 16. Advisory: Drafting 12.

Change: prerequisite, advisory, description

effective Spring 2020

# 4A Heavy Plate, Structural Steel and Welding Certification, 5 units, 3 lecture hours, 7 lab hours

**Prerequisite:** Welding 2B. **Advisory:** Applied Technology 130 and Drafting 12. Eligibility for English 1A recommended

An emphasis on obtaining certification in vertical and overhead welding positions (3G and 4G) in structural welding with Shielded Metal Arc Welding (SMAW), Flux Cored arc Welding (FCAW) and Gas Metal Arc Welding (GMAW) processes leading to the American Welding Society (AWS) Structural Welding Code Certification test. (A, CSU)

Change: advisory, description

effective Spring 2020

# 4B Pipe, Tube Welding and Certification, 5 units, 3 lecture hours, 7 lab hours

**Prerequisite:** Welding 4A. **Advisory:** Applied Technology 130 and Drafting 12. Eligibility for English 1A recommended.

Shielded Metal Arc, Gas Tungsten Arc, and Flux Cored Arc welding processes on different piping systems. Fit up and assemble joint configurations used in pressure vessel, power systems, cross country and refinery applications. Certification procedures in accordance with API, AWS, and ASME codes. (A, CSU)

New Course effective Spring 2020

# 5A Automated Welding, 3 units, 2 lecture hours, 4 lab hours

Prerequisite: None.

The first of a two-part series introducing fundamental theory and hands-on application of robotic welding automation. Emphasizes safety awareness, programming techniques, and basic gas metal arc welding. Application will consist of using six-axis robotic welding equipment. (A, CSU)

New Course effective Spring 2020

# 5B Advanced Automated Welding and Cutting, 3 units, 2 lecture hours, 4 lab hours Prerequisite: Welding Technology 5A.

The second of a two-part series introducing fundamental theory and hands-on application of robotic welding automation and cutting. Emphasizes safety awareness, programming techniques, and basic gas metal arc welding and plasma cutting applications using six-axis robotic welding and a 5 axis CNC plasma cutting system. (A, CSU)

New Course effective Spring 2020

# 6A Shielded Metal Arc Welding Theory and Application, 3.5 units, 2 lecture hours, 4.75 lab hours Advisory: Applied Technology 10.

Theory and application of the shielded metal arc welding process. Welding will be done in the flat, horizontal, vertical and overhead positions on mild steel. This will prepare students to take the American Welding Society (AWS) D1.1 qualification test. An introduction to the principles of shielded metal arc welding (SMAW), setup/use of SMAW equipment, and safe use of tools and equipment. Provides instruction in welding carbon steel weld joints in various positions. (A, CSU)

New Course effective Spring 2020

# 6B Semi-Automatic Wire Feed Welding, 3.5 units, 2 lecture hours, 4.75 lab hours Advisory: Applied Technology 10.

Theory and application of semi-automatic wire feed process to include Gas Metal Arc Welding and Flux Core Arc Welding. Welding will be done in the flat, horizontal, vertical, and overhead position using mild steel, and stainless steel. (A, CSU)

New Course effective Spring 2020

# 6C Gas Tungsten Arc Welding Theory and Application, 3.5 units, 2 lecture hours, 4.75 lab hours Advisory: Applied Technology 10.

Theory and application of the Gas Tungsten Arc Welding (GTAW) process. Welding will be done in the flat, horizontal, vertical, and overhead position using mild steel, and stainless steel and aluminum. (A, CSU)

Change: advisory effective Spring 2020

# 56 Blueprint Reading for Welders, 2 units, 2 lecture hours

Advisory: Applied Technology 130. Eligibility for English 1A recommended.