

Ethnic Studies

Program Description

This major is an interdisciplinary program which provides an opportunity for students to pursue organized studies of minority groups in American Society and to foster and expand general understanding of these groups. The courses allow for a wide latitude of study to meet a variety of interests with courses which fulfill competence in and an understanding of the unique contributions of American ethnic groups; interpretation of American ethnic culture as manifested in its history, its literature, and its social, economic, political, and philosophical development. (The course descriptions may be found under the appropriate disciplines.)

Associate in Arts Degree

The Associate in Arts Degree can be obtained by completing a total of 60 units, including the required courses in one of the majors listed below, the general education requirements, and electives. All courses in the major must be completed with a grade of C or better or a P if the course is taken on a pass-no pass basis.

Program Outcomes

Students who complete an Associate Degree will be able to:

1. Increase understanding of diverse ethnic groups in American society
2. Understanding the impact of culture and the significance of history, and literature.
3. Develop competence as it pertains to various ethnic groups including an understanding of their social, economic, political and philosophical development.
4. Competence in understanding the unique contributions of ethnic groups in American Society

Required Courses Units

African-American Studies

ENGL 033 Survey of African American Literature in the United States	3
<i>or</i>	
ENGL 034 African American Novel and Drama in the United States	3
SOCS 028 Introduction to African Studies	3
HIST 028 African American History to 1877	3
<i>or</i>	
HIST 029 African American History Since 1865	3
SOCS 022 Ethnic, Racial and Minority Group Relations in Harmony and Conflict	3
SOC 023 Sociology of African Americans	3
<i>or</i>	
SOCS 023 The African-American Family	3
Any course listed in any Ethnic Studies major	3
Total Units	18

Latino Studies Units

ENGL 035 Latina/o Literature	3
SOCS 022 Ethnic, Racial and Minority Group Relations in Harmony and Conflict	3
SOCS 025 Mexican-American Experience	3
SPAN 001 First Semester Spanish	5
<i>or</i>	
SPAN 002 Second Semester Spanish	5
<i>or</i>	
SPAN 003 Third Semester Spanish	5
<i>or</i>	
SPAN 004 Fourth Semester Spanish	5
<i>or</i>	
HIST 030 History of Mexico	3
<i>or</i>	
HIST 031 Mexican American/Chicano History	3
Any courses listed in the Ethnic Studies Program	6
Total Units	18 – 20

Asian-American Studies Units

ENGL 037 Survey of Asian American Literature	3
HIST 032 History of the Philippines	3
SOCS 022 Ethnic, Racial and Minority Group Relations in Harmony and Conflict	3
SOCS 026 Filipino-American Experience	3
Any courses listed in any Ethnic Studies Major	6
Total Units	18

Native-American Studies Units

ENGL 032 Introduction to Native American Literature	3
SOCS 022 Ethnic, Racial and Minority Group Relations in Harmony and Conflict	3
SOCS 027 Native American Experience	3
Any courses listed in any Ethnic Studies Major	6
Total Units	18

Ethnic Studies

Ethnic Studies Combination	Units
AMST 001 An Interdisciplinary Study of American Culture	3
<i>or</i>	
AMST 002 An Interdisciplinary Study of American Culture	3
SOCS 022 Ethnic, Racial and Minority Group Relations in Harmony and Conflict	3
SPAN 001 First Semester Spanish	5
SPAN 002 Second Semester Spanish	5
SPAN 003 Third Semester Spanish	5
<i>or</i>	
SPAN 004 Fourth Semester Spanish	5
Electives selected from the following list	12
Total Units	23

Select 12 units from the following (all 3-unit courses):	Units
ENGL 032 Introduction to Native American Literature	3
ENGL 033 Survey of African American Literature in the United States	3
ENGL 034 African American Novel and Drama in the United States	3
ENGL 035 Latina/o Literature	3
ENGL 036 Multi-Ethnic Literature in America	3
HIST 028 African American History to 1877	3
<i>or</i>	
HIST 029 African American History Since 1865	3
HIST 030 History of Mexico	3
HIST 031 Mexican American/Chicano History	3
HIST 032 History of the Philippines	3
MUSC 007 Jazz and Popular Music in America: Ragtime to rock	3
PSYC 024 Psychology of African Americans	3
SOC 023 Sociology of African Americans	3
SOCS 025 Mexican-American Experience	3
SOCS 026 Filipino-American Experience	3
SOCS 027 Native American Experience	3

Recommended Electives for all Ethnic Studies Programs
AMST 001 An Interdisciplinary Study of American Culture
AMST 002 An Interdisciplinary Study of American Culture
ANTH 002 Cultural Anthropology
COUN 055 Valuing Diversity
ENGL 032 Introduction to Native American Literature
ENGL 037 Survey of Asian American Literature
HIST 030 History of Mexico
JAPN 101 Conversational Japanese
JAPN 102 Conversational Japanese
PHIL 031 Introduction to World Religions of the East
PHIL 032 Introduction to World Religions of the West
PLSC 005 Constitutional Rights in a Multicultural Society
SOCS 028 Introduction to African Studies
SOC 002 Social Issues and Problems
SPAN 025 Introduction to Latin-American Culture: An Exploration of Identity. Through Essay, Film, and Short Story
TAG 101 Conversational Tagalog
TAG 102 Conversational Tagalog
THEA 013 Diversity in American Theatre: A Contemporary Focus

Fashion Design

FDES 062

3.0 Units

Clothing Construction

Course Advisories: SCC minimum English and math standards.

The study of custom clothing construction techniques including pattern adjustment, fabric selection and equipment usage. Evaluation is based on clothing constructed, sample skills, and written exams. *Two hours lecture, three hours lab.*

FDES 063

3.0 Units

Costume History

Course Advisories: SCC minimum English and math standards.

The study of world costume from the earliest time to the present. Evaluation is based on written examinations, written summaries, and classroom participation. *Three hours lecture.*

FDES 065

1.0 Unit

Alterations and Fit in Ready-To-Wear

Course Advisories: SCC minimum English and math standards.

The study of alterations and fit in ready-to-wear clothing. Restyling, marking, costing and construction techniques will be applied to men, women and children's clothing. Evaluation will be based on written examinations, garment alterations, and classroom participation. *One-half hour lecture, one and one-half hour lab.*

Film and Television

Program Description

This program is designed to provide fundamental theory and practical experiences required for a career in film and/or television.

Associate in Arts Degree

The Associate in Arts Degree can be obtained upon completion of a total of 60 units, including the 18-unit major, the general education requirements, and electives. All courses in the major must be completed with a grade of C or better or a P if the course is taken on a pass-no pass basis.

Program Outcomes

Students who complete an Associate Degree will be able to:

1. Conceive, structure, organize, produce, direct, film and edit to successful completion a short digital film and TV program.
2. Conceive structure, organize and write film and TV treatments and scripts.
3. Critically evaluate film.
4. View and evaluate films, providing written and verbal critiques.
5. Demonstrate knowledge of film theory and history and TV/radio broadcasting mediums.

Required Courses	Units
CINA 010 The Art of Cinema	3
CINA 015 Film Production	3
TV 050 Survey of Broadcasting	3
TV 055 Beginning Television Production	3
TV 056 Advanced Television Production	3
<i>or</i>	
CINA 016 Film Production	3
TV 060 Television and Film Writing	3
Total Units	18

Recommended Electives:

ART 010 Art Appreciation
 CINA 011 American Cultures in Film
 JOUR 011 Introduction to Mass Communication
 MUSC 008 Music Appreciation
 PHOT 030 Beginning Photography
 SPCH 015 Oral Interpretation of Literature
 THEA 001 Principles and Theory of Acting
 THEA 002 Principles and Theory of Acting
 THEA 010 History of Theatre 1
 THEA 050 Performance for the Camera
 TV 061 Advanced Film Writing
 TV 099 Telecommunications Honors

Cinematography

CINA 010 **3.0 Units**
Art of the Cinema
Course Advisory: SCC minimum English standard. An introduction to film history, aesthetic principles and production techniques of motion pictures. Important cinematic styles and trends are examined and representative films of major American and foreign film directors are viewed. Written exams, film screenings and film criticism are required. *Three hours lecture.*

CINA 011 **3.0 Units**
Amer Cultures Film
Course Advisory: ENGL 001. A film studies approach to understanding ethnicity, culture, race, discrimination, gender, class and pluralism in America. Includes screenings of films by and/or about Asian Americans, African-Americans, European Americans, Hispanic Americans, Native Americans, and selected readings, written critical analysis and discussion. *Three hours lecture.*

CINA 015 **4.0 Units**
Film Production
Prerequisite: CINA 010 (may be taken concurrently). An introduction to digital film production equipment, techniques and principles. Includes applications of producing, directing, writing, cinematography, editing and sound recording. Students are required to demonstrate knowledge of the above in student-produced digital films, exercises and written work. *Three hours lecture.*

CINA 016 **4.0 Units**
Film Production
Prerequisite: CINA 015. The application of filmmaking principles and techniques in the production of student produced animated, documentary, educational and/or dramatic films. Emphasis is on developing skill and creativity as a producer/director and refining basic technical competence. A final film project is required. Repeatable 2 times. *Three hour lecture, three hours weekly by arrangement.*

Film and Television

Film and Television

TV 050 3.0 Units Survey Broadcasting

Course Advisory: SCC minimum English standard. Introduction to radio and television as mediums of mass communication. The history, development and structure of radio and television are studied, and their impact on society and culture. Students are required to demonstrate knowledge of course content through written tests and projects. *Three hours lecture.*

TV 055 3.0 Units Beginning Television Production

Prerequisite: TV 050 or concurrent enrollment. Offers introductory training in the fundamentals of TV studio production, including producing, directing, scriptwriting, performing, production crewing, set graphics and designing. TV production projects are required. *Three hours lecture.*

TV 056 3.0 Units Advanced Television Production

Prerequisite: TV 055 or previous television production experience. Course Advisory: SCC minimum English standard. Presents the fundamentals of on-location and studio production applied to news, public affairs, and dramatic programs. Students are required to produce, direct, write, and crew on TV programs. Repeatable 1 time. *Three hours lecture and 1 hour lab.*

TV 060 3.0 Units Television & Film Writing

Course Advisory: ENGL 001. Presents the fundamental principles, techniques and formats of writing for film and TV, including analysis and study of professionally written scripts. Scriptwriting assignments for news, public affairs, editorials, public service announcements, commercials, documentaries, and dramas are required. *Three hours lecture.*

TV 061 3.0 Units Advanced Film Writing

Prerequisite: TV 060 or presentation of a treatment or well structured story line acceptable to the instructor. Script writing for the motion picture, including dramatic structure, scene and sequence structure, and character development. Each student will complete an original script for a full length motion picture. Repeatable 1 time. *Three hours lecture.*

TV 099 1.0 to 3.0 Units Telecommunication Honors

Prerequisites: Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 5 units in the discipline with a grade of 'B' or better; an ability to work independently; permission of the division Dean based on instructor availability. Allows the advanced student to work independent of the structured classroom environment in areas of special concern during hours set by arrangement with instructor. Students are required to complete their independent study goals as arranged through contract with their instructor at the beginning of the semester. May be repeated to a maximum of 6 units, including initial enrollment. *Three to nine hours weekly by arrangement.*

TV Special Topics

These courses, numbered 048, 098, or 148 depending upon their transferability, are courses of contemporary interest centered on changing knowledge and important issues in the field. Announcements of Special Topics courses appear in the Schedule of Classes.

Fine Arts

Program Description

An interdisciplinary program designed to provide a broad exposure to the fine arts. The program includes courses in Theatre Arts, Telecommunications, Music and Art. (The individual course descriptions may be found under the appropriate disciplines.)

Associate in Arts Degree

The Associate in Arts Degree can be obtained by completing a total of 60 units, including the 18-unit major listed below, the general education requirements and electives. All courses in the major must be completed with a grade of C or better or a P if the course is taken on a pass-no pass basis.

Program Outcomes

This information is not available at the time of printing. Please check online for current information as it is available.

Required Courses	Units
ART 010 Art Appreciation	3
MUSC 007 Jazz and Popular Music in America: Ragtime to rock	3
<i>or</i>	
MUSC 008 Music Appreciation	3
THEA 001 Principles and Theory of Acting	3
<i>or</i>	
THEA 010 History of Theatre 1	3
TV 050 Survey of Broadcasting	3
<i>or</i>	
CINA 010 The Art of Cinema	3
Select three units from selection one below	3
Select three units from selection two below	3
Total Units	18

Recommended Electives

SPCH 001 Introduction to Public Speaking
SPCH 015 Oral Interpretation of Literature
PHOT 148
THEA 003 Stagecraft
THEA 005 Applied Drama
THEA 007 Directing
TV 055 Beginning Television Production

Selection One: Select three units

from the following:	Units
MUSC 005 Music Fundamentals	3
MUSC 010 Concert Band	2
MUSC 014 Jazz Ensemble	2
MUSC 020 Choir	2
MUSC 025 Chamber Choir	2
MUSC 026 Vocal Jazz Ensemble	2
MUSC 027 Elementary Piano Part I	1.5
MUSC 028 Elementary Piano Part II	1.5
MUSC 029 Intermediate Piano Part I	1.5
MUSC 030 Intermediate Piano Part II	1.5

Selection Two: Select three units from

the following:	Units
ART 004 Life Drawing	2 - 3.5
ART 006 Design Principles in 2-Dimensions	3.5
ART 015 Intermediate Drawing	2 - 3.5
ART 023 Introduction to Ceramics: Hand Building	2 - 3.5
ART 026 Introduction to Ceramics: Wheel Throwing Techniques	2 - 3.5
ART 031 Sculpture	2 - 3.5

Fire Technology

Program Description

This program was established under direction of Solano County fire protection agencies and offers both an intensive training course culminating in a Certificate of Achievement and a well-rounded educational program leading to the Associate in Science Degree. Instructors in this program are experienced members of the fire service field. In addition, a Fire Technology Academy for recently recruited fire service personnel and pre-service students is conducted periodically. The curriculum consists of courses selected from the regular fire technology course offerings.

Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement can be obtained upon completion of the 30-unit major with a grade of “C” or better in each course. The Associate in Science Degree can be obtained upon completion of a total of 60 units, including the major, the general education requirements, and electives. All courses in the major must be completed with a grade of C or better or a P if the course is taken on a pass-no pass basis.

Program Outcomes

Students who complete the Certificate of Achievement/Associate Degree will be able to:

1. Identify minimum qualifications and entry-level skills for fire fighter hiring.
2. Demonstrate knowledge of fire service history, culture and diversity.
3. Demonstrate the ability to analyze, appraise and evaluate fire and emergency incidents and identify components of emergency management and fire fighter safety.
4. Identify and comprehend laws, regulations, codes and standards that influence fire department operations, and identify regulatory and advisory organizations that create and mandate them, especially in the areas of fire prevention, building codes and ordinances, and firefighter health and safety.
5. Analyze the causes of fire; determine extinguishing agents and methods; differentiate the stages of the fire and fire development; and compare methods of heat transfer.
6. Calculate flow requirements for fire apparatus; diagram a pump and plumbing schematic for fire apparatus; and apply mathematic formulae to hydraulics problems.
7. Identify and describe common types of building construction and conditions associated with structural collapse and fire fighter safety.
8. Differentiate between fire detection and fire suppression systems; design and diagram a wet and dry fire protection system; and identify alarm system components and their operations.

Required Courses Units

FIRE 050 * Principles of Emergency Services	3
FIRE 051 Fire Behavior & Combustion	3
FIRE 053 Fire Prevention	3
FIRE 054 Fire Protection Systems	3
FIRE 055 Fundamentals of Fire Service Operations	3
FIRE 056 Building Construction For The Fire Service	3

Select 12 units from the electives below

Total Units 30

Select 12 units from the following electives: Units

ECTN 102 Electrical Safety	1 - 3
FIRE 060 Wildland Pyrophyte Taxonomy.	3
FIRE 083 Fire Candidate Physical Fitness	2 - 2.5
FIRE 102 * Fire Service Safety Practices.	3
FIRE 112 Hazardous Materials I	3
FIRE 113A Wildland Firefighter Academy	18
FIRE 114 Fire Apparatus Maintenance	3
FIRE 117 Confined Space Awareness	2
FIRE 118 Confined Space Rescue	2
FIRE 119 Trench Rescue	2
FIRE 134 Prevention IA	2.5
FIRE 135 Prevention IB Inspection/ Fire Prot. Systems & Spec Haz	2.5

FIRE 140 Fire Technology Academy	24
FIRE 145 Fire Investigation I	2
FIRE 146 Fire Investigation II	2
FIRE 148Q Confined Space Awareness	2
FIRE 148S Fire Management 2C	2
FIRE 148T Rescue Systems I	2
FIRE 148U Strike Team Leader (S-334)	2
FIRE 148W Hazardous Materials Technician 1A	2
FIRE 148X Hazardous Materials Technician 1B	2
FIRE 148Y Hazardous Materials Technician 1C	2
FIRE 148Z Hazardous Materials Technician 1D	2
FIRE 150 Fire Command 1A	2
FIRE 151 Fire Command 1B	2
FIRE 155 Basic ICS (I-200)	1
FIRE 161 Fire Management I.	2
FIRE 170 Fire Service Instructor 1A	2
FIRE 171 Fire Service Instructor 1B	2
FIRE 190 Emergency Response to Terrorism	3
FIRE 250 Logistics Section Chief-I450	3
FIRE 251 Supply Unit Leader SEMS/ICS	3
OCED 090 Occupational Work Experience	1 - 8

*** Fire service personnel may take Fire Technology electives in lieu of these courses providing they are a current EMT and CPR card holder.**

Information on State Fire Marshal Certification

The following Solano College courses satisfy the *course* requirements for the indicated State Fire Marshal Certification:

Investigator I –FIRE 145 & 146
Fire Instructor I –FIRE 170 & 171
Prevention Officer II –FIRE 174, 196, 176

Public Education Officer I –FIRE 134 & 135
Prevention Officer I –FIRE 134, 135, & 136
Chief Officer –FIRE 165, 166, 167, 168, 185, 186, 187, 188, 189

Fire Technology

Hazardous Substance and Waste Handling Technician Certificate of Achievement Only

A Certificate of Achievement in Hazardous Substance and Waste Handling can be obtained by completing the courses listed below. Training meets OSHA requirements for workers handling hazardous substances. An Associate of Science Degree is not available with this option.

Program Outcomes

This information is not available at the time of printing. Please check online for current information as it is available.

Required Courses	Units
FIRE 050 Principles of Emergency Services	3
FIRE 102 Fire Service Safety Practices	3
FIRE 112 Hazardous Materials I	3
FIRE 115 Hazardous Waste Operations	2
FIRE 116 Hazardous Substance Management	3
FIRE 123 Fire Service Principles and Procedures I	1
IMGT 172 Industrial Safety	3
OR	
IMGT 173 Occupational Safety & Health	0
Total Units	18

Recommended Electives

OCED 091 General Work Experience
FIRE 114 Fire Apparatus Maintenance

Hazmat Worker Job-Direct Certificate

The required courses must be completed with a grade "C" or better.

Required Courses	Units
FIRE 115 Hazardous Waste Operations	2
FIRE 128 Emergency Medical First Responder for the Fire Service	3
Total Units	5

Pre-Fire Technician Job-Direct Certificate

The required courses must be completed with a grade "C" or better.

Required Courses	Units
FIRE 148BB Introduction to Homeowner Inspections	1
FIRE 148CC Introduction to Pre Fire Instruments and Defensible Space Design	4
FIRE 148DD Introduction to Pre Fire Engineering	3
FIRE 148EE Pre-Fire Fuels Management	0
FIRE 148FF Fire Operations in the Wildland Urban Interface	0
FIRE 148GG Pre-Fire Silvicultural Practices	3
Total Units	11

Wildland Fire Technology Job-Direct Certificate

The required courses must be completed with a grade "C" or better.

Required Courses	Units
FIRE 060 Wildland Pyrophyte Taxonomy	3
FIRE 113A Wildland Firefighter Academy	18
Total Units	21

Fire Technology

FIRE 050 **3.0 Units**

Fire Protection Organization

Course Advisory: SCC minimum English standard. Presents an introduction to fire protection; career opportunities in fire protection and related fields; philosophy and history of fire protection; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics. This is a Fire Technology core course and must be completed with a final grade of 'C' or better in order to receive an Associate Degree or Certificate of Achievement in Fire Technology. *Three hours lecture.*

FIRE 051 **3.0 Units**

Fire Behavior & Combustion

Course Advisory: SCC minimum English standard. Provides fundamental information and knowledge of the physical and chemical characteristics of matter, fire, hazardous materials, weapons of mass destruction identification, and basic extinguishment theory. This is a Fire Technology core course and must be completed with a final grade of 'C' or better in order to receive an Associate Degree or Certificate of Achievement in Fire Technology. *Three hours lecture.*

FIRE 053 **3.0 Units**

Fire Prevention

Course Advisory: SCC minimum English standard. Presents the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationship of fire preventions with fire safety education and detection and suppression systems. This is a Fire Technology core course and must be completed with a final grade of 'C' or better in order to receive an Associate Degree or Certificate of Achievement in Fire Technology. *Three hours lecture.*

FIRE 054 **3.0 Units**

Fire Protection Systems

Course Advisory: SCC minimum English standard. Provides information relating to the features of design and operation of fire detection and alarm systems, heat and smoke control systems, special protection and sprinkler systems, water supply for fire protection, and portable fire extinguishers. This is a Fire Technology core course and must be completed with a final grade of 'C' or better in order to receive an Associate Degree or Certificate of Achievement in Fire Technology. *Three hours lecture.*

FIRE 055 **3.0 Units**

Fundamentals of Fire Service Operations

Course Advisory: SCC minimum English standard. Provides the student with the fundamentals of fire department organization, management, and resources, and the use of those resources to control various emergencies. This is a Fire Technology elective course and may be used, if necessary, in order to complete the fire technology electives portion of the Associate Degree or Certificate of Achievement in Fire Technology. *Three hours lecture.*

FIRE 056 **3.0 Units**

Building Construction for the Fire Service

Course Advisory: SCC minimum English and math standards. Presents all of the major components of the common types of structures used for business and residential purposes that will provide the student with the basic building construction knowledge to safely perform rescue operations and suppress fires in structures and their surrounding appurtenances. This course must be completed with a final grade of 'C' or better in order to receive an Associate Degree or Certificate of Achievement in Fire Technology. *Three hours lecture.*

FIRE 057 **4.0 Units**

Fire Service Safety and Survival Practices

Course Advisory: Eligibility for ENGL 001. Pre-requisite: FIRE 050 with a minimum grade of C. Designed to provide: 1. Past, present and future firefighter death and injury statistics and investigation reports in the United States. 2. Knowledge of firefighter safety programs, risk management techniques and the dangers associated with working in Immediately Dangerous to Life and Health (IDLH) atmospheres 3. The need for cultural and behavioral changes relating to firefighter safety and survival techniques. This course will have a 3 hour lab per week that includes working off of ladders, elevated surfaces, and in confined spaces. *Three hours lecture and Three hours lab.* (Formerly FIRE 102)

FIRE 060 **3.0 Units**

Wildland Pyrophyte Taxonomy

Course Advisory: SCC minimum English and math standards. Provides basic identification of the most common and dangerous wildland pyrophyte plant species and their corresponding firefighting mitigation practices. Prepares the rural homeowner living in the wildland areas of California and the wildland firefighter with the information necessary to safely suppress wildland fires and protect structures in advance of wildland fires. *Three hours lecture, One hour lab.*

FIRE 083 **2.0 or 2.5 Units**

Fire Candidate Physical Fitness

Course Advisories: SCC minimum English and math standards. Provides lifelong fitness knowledge to gain employment with a federal, state, county, city or special district fire agency. Provides certification with the Fire Service Joint Labor Management Wellness/Fitness Initiative 'Candidate Physical Ability Test.' Repeatable 3 times. (Same as PE 083) *One hour lecture, two or three hours activity.*

Fire Technology

FIRE 112 **3.0 Units**

Hazardous Materials I

Course Advisory: SCC minimum English standard. A study of fire protection chemistry and physics; analysis and discussion of fire protection emergencies and their solutions relative to the manufacture, storage, transportation, handling and use of acids, alkalies, space-age fuels and other hazardous materials. Repeatable 3 times. *Three hours lecture.*

FIRE 113A **18.0 Units**

Wildland Firefighter Academy

Corequisite(s): Fire 60 Wildland Pyrophyte Taxonomy
Prerequisite(s): (1) Completion of Fire/PE 83 course or certificate of completion of the USDA Forest Service PACK physical agility test or C-PAT physical agility test. (2) Fire 128 Emergency Medical First Responder for the fire Services or American Red Cross First Responder for the Professional. (3) MATH 330 or equivalent; eligibility for ENGL 370. (4) Dean Approval will be required for all Letters of Request for Admission into Fire 113A. Course Advisory: Completion of English 001. This course presents the basic principles, and safety requirements and techniques of wild land fire prevention, human behavior issues on firelines and fire control. It covers legal areas of wild land fire protection, emergency situation leadership, fire prevention and mutual aid systems for federal wild land fire management and control personnel. This course is recommended for fire technology, forestry, conservation, public land stewards, wildlife preserve workers, and wildlife majors. Successful completion of this course will result in the student obtaining the nationally recognized seasonal fire fighting certificates required by the USDA Forest Service, the Bureau of Land Management, the National Park Service, the Bureau of Indian Affairs, and other federal firefighting agencies. Additionally, successful students will receive an EMT 212 Emergency medical Technician (Basic) Certificate of Completion. Field trips (labs) will be required. *Twelve hours lecture, eight hours lab.*

FIRE 113B **18.0 Units**

Fire Technology Academy

Prerequisite(s): FIRE 50; FIRE 113A; Fire 128 or EMT 212; Proof of Completion of Fire/PE 83 or USFS PACK Test or C-Pat Test within the previous 12 month period; Completion and Submission of the Solano Community College Fire 113B Fire Tech Academy Application including application guidelines, application form, personal biography. Course Advisory: SCC minimum English and math standards. Prospective Firefighter I Academy students will be required to fill out a Personal Health History Questionnaire that depicts the student's health history. Based upon the information found in said questionnaire, a medical examination may be required. A course containing the contents of Fire 115, 123, 124, 125, 126, 127, 129, 130, 131, and Low Angle Rope Rescue Operational. Upon successful completion of this course, the student will become eligible for certification by the State Fire Marshal's Office as a Fire Fighter I. *Fifteen hours lecture and nine hours lab.* (Formerly FIRE 140)

FIRE 114 **3.0 Units**

Fire Apparatus Maintenance

Course Advisories: Eligibility for ENGL 001 and SCC minimum math standards. Introduces fire technology students to basic fire apparatus maintenance and troubleshooting techniques typically associated with the lubrication, coolants, drive train, engine, tires, batteries, and other moving parts of a piece of firefighting apparatus. *Three hours lecture.*

FIRE 114A **2.5 Units**

Fire Service Driver/Operator 1A

Prerequisite: Either: (1) State Fire Marshal Certification as a Firefighter I or (2) written proof of at least 2 years experience in good standing in an organized fire entity, or completion of Fire 114 and possession of a valid California Driver's License with a Class B firefighter restricted (minimum). *Course Advisory: SCC minimum English and math standards.* An in-depth course designed by the California State Fire Marshal's Office to provide the student with basic knowledge and manipulative skills necessary to safely and effectively drive, maintain and make minor repairs to a Type I, Type II and Type III fire engine during emergency and non-emergency situations as a single resource or in strike team configuration. [Special Note: This course was developed and is owned by the State of California-Office of the State Fire Marshal(CSFM) and can only be taught for Certification by a CSFM certified and registered instructor using only CFSM developed lesson plans, books and instructor materials.] This course is a State Fire Marshal Certified Course and all successful students will be awarded a State Fire Marshal Certificate. Repeatable 2 times. *Four hours lecture* (10 week course).

FIRE 114B **2.5 Units**

Fire Apparatus Driver/Operator 1B

Prerequisite: Either: (1) State Fire Marshal Certification as a Firefighter I or (2) written proof of at least 2 years experience in good standing in an organized fire entity, or completion of Fire 114 and possession of a valid California Driver's License with a Class B firefighter restricted (minimum). *Course Advisory: SCC minimum English and math standards.* An in depth course designed by the California State Fire Marshal's Office to provide the student with basic knowledge and manipulative skills necessary to safely and effectively operate, maintain and make minor repairs to fire apparatus pumps during emergency and non-emergency situations. [Special Note: This course was developed and is owned by the State of California-Office of the State Fire Marshal(CSFM) and can only be taught for Certification by a CSFM certified and registered instructor using only CFSM developed lesson plans, books and instructor materials.] This course is a State Fire Marshal Certified Course and all successful students will be awarded a State Fire Marshal Certificate. Repeatable 2 times. *Four hours lecture* (10 week course).

Fire Technology

FIRE 115 Hazardous Waste Operations <i>Course Advisories: SCC minimum English and math standards.</i> Study of hazardous waste identification and handling techniques. Prepares individuals to identify a product, select safety equipment to wear, and how to mitigate clean-up procedures. <i>Two hours lecture, one hour lab.</i>	2.0 Units	FIRE 124 Fire Service Principles and Procedures II <i>Course Advisory: SCC minimum English standard.</i> Presents the application of the basic skills in connecting, elevating and controlling hose lines and streams. Repeatable 3 times. <i>Sixteen hours lecture, eight hours lab</i> (1 week course).	1.0 Unit
FIRE 116 Hazardous Substance Management <i>Course Advisory: SCC minimum English standard.</i> Designed to give business personnel, hazardous substance handlers, and others an overview of federal and state organizations responsible for hazardous waste and substance laws. An introduction to the Occupational Safety and Health Administration (OSHA) 29CFR1910.120 worker right to know laws will also be covered. Participants will be trained to identify and utilize the different hazardous materials identification systems. <i>Three hours lecture.</i>	3.0 Units	FIRE 125 Fire Service Principles and Procedures III <i>Course Advisory: SCC minimum English standard.</i> Designed to train personnel in volunteer and paid fire departments. Includes laying single and multiple lines of hose, coupling hose, loading hose, connecting and operating hose devices, and connecting hose lines to auxiliary appliances. Repeatable 3 times. <i>Sixteen hours lecture, five hours lab</i> (1 week course).	1.0 Unit
FIRE 117 Confined Space Awareness <i>Course Advisory: SCC minimum English and math standards.</i> Upon successful completion of this course the student will be aware of the hazards associated with confined space and how to properly mitigate these hazards. <i>Forty hours lecture</i> (1 week course).	2.0 Units	FIRE 126 Fire Service Principles and Procedures IV <i>Course Advisory: SCC minimum English standard.</i> Designed to train personnel in volunteer and paid fire departments. Includes operation of stream appliances, hose operations above and below street level, salvage covers, fold and carry covers, spread and hand covers, improvising with covers, protecting building contents, and operation of air moving equipment. Repeatable 3 times. <i>Sixteen hours lecture, five hours lab</i> (1 week course).	1.0 Unit
FIRE 118 Confined Space Rescue <i>Course Advisory: SCC minimum English and math standards.</i> Upon successful completion of this course the student will have acquired all the required skills and knowledge necessary to perform a safe and properly executed confined space rescue under emergency conditions. <i>Forty hours lecture</i> (1 week course).	2.0 Units	FIRE 127 Fire Service Principles and Procedures V <i>Course Advisory: SCC minimum English standard.</i> Designed to train personnel in volunteer fire departments. Includes use of water removal tools and equipment, removal of debris and hazards, collection and preservation of evidence, operation of fire protection systems, identification of hazardous and explosive materials, use of life lines and belts, and traffic control. Repeatable 3 times. <i>Sixteen hours lecture, five hours lab</i> (1 week course).	1.0 Unit
FIRE 119 Trench Rescue <i>Course Advisory: SCC minimum English and math standards.</i> The student must be able to identify the hazards associated with trench rescue and master the skills necessary to mitigate those hazards as demonstrated in actual trench rescue manipulative skills sessions. Demonstration of critical thinking thought processes relative to safety during a simulated trench rescue will be an essential element of the course. Each student must bring to the class an approved safety helmet, safety glasses, gloves, hearing protection, and lug soled 8 inch high leather boots with steel toes and shank. <i>Forty hours lecture</i> (1 week course).	2.0 Units	FIRE 128 Emergency Medical First Responder for the Fire Service <i>Course Advisory: SCC minimum English and math standards.</i> Intended as a prerequisite for the stand alone EMT 212 course and as a prerequisite for EMT 212 included as part of Fire 113A the Wildland Fire Academy, Fire 128 provides the student with the basic, pedagogical emergency care procedures for sick and injured victims as a first responder including but not limited to: cuts, abrasions, broken bones, trauma injuries, burns and respiratory/cardiovascular emergencies. Repeatable 3 times. <i>Two and one-half hours lecture, one and one-half hours lab.</i>	3.0 Units
FIRE 123 Fire Service Principles and Procedures I A study of the related tools and equipment used in fire suppression and rescue work. Repeatable 3 times. <i>Sixteen hours lecture, five hours lab</i> (1 week course).	1.0 Unit	FIRE 129 Fire Control I <i>Course Advisory: SCC minimum English standard.</i> Study of how fires start, spread and are controlled. Repeatable 3 times. <i>Twenty-Four hours lecture</i> (1 week course).	1.0 Unit

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FIRE 130 Fire Control II <i>Course Advisory: SCC minimum English and math standards.</i> Study of the identification of fire problems, use of equipment and personnel in search, rescue, and lifesaving situations created by fire. <i>Twenty-Four hours lecture</i> (1 week course).	1.0 Unit	FIRE 135 Prevention IB Inspection/Fire Prot. Systems & Spec Haz <i>Prerequisite: Either: (1) Completion of all SCC Fire Technology Core Courses (FIRE 050; 051; 053; 054; 055; 056) with a grade of "C" or better OR (2) State Certification as a Firefighter I and II AND (3) Completion of California State Fire Marshal Fire Prevention IA (FIRE 134). Course Advisory: SCC minimum English standard.</i> An in depth course designed by the California State Fire Marshal's Office to provide the student with information to (1) identify the classification, properties, labeling, incidental storage, handling, and use of flammable and combustible gases and hazardous materials other than flammable and combustible liquids and gases; (2) understand the principles and operational readiness of portable fire extinguishers, special fixed fire suppression systems, detection and alarm systems, sprinkler systems and fire pumps, and standpipe systems. [SPECIAL NOTE: This course was developed and is owned by the State of California-Office of the State Fire Marshal(CSFM) and can only be taught for Certification by a CSFM certified and registered instructor using only CSFM developed lesson plans, books and instructor materials.] Repeatable 2 times. <i>Four hours lecture</i> (10 week course).	2.5 Units
FIRE 131 Fire Control III <i>Course Advisory: SCC minimum English standard.</i> Designed to prepare company officers or potential officers to supervise fire-ground operations, control serious fires, and deal with other emergencies requiring a sound knowledge of the principles of strategy and tactics. <i>Twenty-one hours lecture</i> (1 week course).	1.0 Unit		
FIRE 132 Pump Operation and Fire Hydraulics <i>Course Advisory: SCC minimum English standard.</i> Presents the principles of hydraulics as they relate to pumps used in fire fighting and appurtenant manipulative skills that accompany these principles. Repeatable 3 times. <i>Thirty-two hours lecture, eight hours lab</i> (1 week course).	2.0 Units		
FIRE 134 Prevention IA <i>Prerequisite: Either: (1) Completion of ALL SCC Fire Technology Fire Core Courses with a grade "C" or better: Fire 050; Fire 051; Fire 053; Fire 054; Fire 055 and Fire 056, or (2) State Certification as a Firefighter I and II. Course Advisory: SCC minimum English standard.</i> An in depth course designed by the California State Fire Marshal's Office to provide the student with knowledge of : (1) the responsibility and authority for fire prevention inspections and related activities, (2) principles and procedures used to correct fire hazards, (3) occupancy classifications and types of building construction, (4) basic 'means of egress' requirements, (5) operational readiness of fire rated assemblies, (6) general fire safety provisions, (7) public relations as it relates to fire prevention inspections. [Special Note: This course was developed and is owned by the State of California-Office of the State Fire Marshal(CSFM) and can only be taught for Certification by a CSFM certified and registered instructor using only CSFM developed lesson plans, books and instructor materials.] Repeatable 2 times. <i>Four hours lecture</i> (10 week course).	2.5 Units	FIRE 136 Prevention 1C-Flammable Liquids and Gases <i>Prerequisite: Either: (1) Completion of all SCC Fire Technology Fire Core Courses with a grade "C" or better: Fire 050; Fire 051; Fire 053; Fire 054; Fire 055; Fire 056 or (2) State Certification as a Firefighter I and II and (3) Completion of CSFM Fire Prevention 1A and 1B. Course Advisory: SCC minimum English standard.</i> An in depth course designed by the California State Fire Marshal's Office to: (1) identify the physical properties of flammable liquids and gases, combustible liquids, and compressed gases, (2) provide information relative to the storage and handling of flammable liquids and gases, (3) provide information regarding the installation of storage tanks and containers for flammable liquids and gases, (4) identify the techniques for extinguishment of flammable liquids and gases, (5) provide information relative to DOT labeling and placarding for flammable liquids and gases, (6) identify regulations governing the transportation of flammable liquids and gases, (7) identify procedures for controlling compressed and liquefied gas leaks, (8) identify procedures relative to the transfer of compressed liquefied gases. [Special Note: This course was developed and is owned by the State of California-Office of the State Fire Marshal(CSFM) and can only be taught for Certification by a CSFM certified and registered instructor using only CSFM developed lesson plans, books and instructor materials.] Repeatable 2 times. <i>Four hours lecture</i> (10 week course).	2.5 Units

Fire Technology

- FIRE 140** **24.0 Units**
Fire Technology Academy
Prerequisite(s): FIRE 050 with a minimum grade of C and FIRE 083 with a minimum grade of C or PE 083 with a minimum grade of C or a passing grade on the CPAT or PACK test as evidence by certificate of completion. A course containing the contents of FIRE 115, 123, 124, 125, 126, 127, 129, 130, 131, and 83 and Certification of State Fire Marshal courses of I-200, Fire Control I, Fire Control 3B, Water/Swiftwater Rescue Awareness, Confined Space Awareness, Rescue Systems I, Trench Rescue, Low Angle Rescue, American Red Cross EMS First Responder for the Professional, and State Fire Marshal Certified wildland courses of S-190, S-130, S-131, S-134, L-180 and CALFIRE 67 Hour Basic Course. Successful students who maintained at least an 80% score on each unit and subject covered in this course may become eligible for certification by the State Fire Marshal as a Firefighter I pending a required internship with an recognized fire entity. The Solano College Fire Technology Program and its appurtenant Firefighter I Academy is a California State Fire Marshal Accredited Regional Training Program. *Fourteen hours lecture and thirty one hours lab.*
- FIRE 145** **2.0 Units**
Fire Investigation I
Prerequisite(s): This is a course belonging to and controlled by the California State Fire Marshal (SFM) through its State Fire Training Division and that division controls all aspects of the administration of this course including prerequisites. The SFM prerequisites for this course are proof of (1) Firefighter I Certification and Firefighter II Certification. Dean approval based on (SFM) guidelines. Course Advisory: SCC minimum English standard. Presents the methods for determining the cause and place of fire origin, investigative techniques for accidental and incendiary fires, recognition and preservation of evidence, developing an arson case, trial preparation and courtroom testimony, preparation of adequate reports, fire investigation photographs and diagrams. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).
- FIRE 146** **2.0 Units**
Fire Investigation II
Prerequisite: FIRE 145-Fire Investigation I. Course Advisory: SCC minimum English standard. A continuation of Fire Investigation with emphasis on case preparation and courtroom demeanor. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).
- FIRE 147A** **3.0 Units**
Pre-Fire Fuels Management
Course advisories: SCC minimum English and Math standards. A study of fuel modeling within California as it applies to predicted flame lengths and flame depths, catastrophic fire potential and their resultant challenges in terms of wildland fire control, structure loss potential and subsequent defensible space requirements. Safety training will be incorporated throughout the course. *Two hours lecture, three hours lab.*
- FIRE 147B** **3.0 Units**
Fire Operations in the Wildland Urban Interface
Corequisite: FIRE 060. Course Advisory: SCC minimum English and math standards. Presents the fundamentals, objectives, and effects of basic wildland/urban interface pre-fire planning and suppression techniques. Study of past catastrophic wildland/urban interface fires and basic wildland fire weather and behavior will be used to establish a baseline of understanding modern pre-fire planning and suppression techniques. Safety training will be incorporated throughout the course. Field trips are required. *Two hours lecture, three hours lab.*
- FIRE 148BB** **1.0 Unit**
Introduction to Homeowner Inspections
Course Advisory: SCC minimum English and math standards. This is an introductory course which provides basic entry level skills in door-to-door homeowner inspections as required in the Public Resources Code Section 4291 for defensible space requirements with emphasis on cultural practices related to annual native grasses, trees, shrubs, and groundcovers including planting, watering, mowing, fertilizing, and disposal. Included in this course is inspection ethics, fire-safe building construction practices, inspection report writing, and vicarious liabilities to the inspector. Safety training will be incorporated throughout the course. *One hour lecture.*
- FIRE 148CC** **4.0 Units**
Introduction to Pre-Fire Instruments & Defensible Space Design
Course Advisory: SCC minimum English and math standards. This is an introductory course, which provides basic entry-level skills in defensible space measuring devices and practices as required by state and federal firesafe and firewise statutes and best management practices of the landscape construction and maintenance industry, as well as professional foresters and arborists, with special emphasis on wildland/urban interface mitigation. Safety training will be incorporated throughout the course. *Three hours lecture, three hours lab.*
- FIRE 148DD** **3.0 Units**
Introduction to Pre-Fire Engineering
Course Advisory: SCC minimum English and math standards. An introduction to the assessment, skills and mitigation techniques of local, state and federal wildland/urban interface fire protection problems designed to develop methods to mitigate these problems through landscape maintenance practice with emphasis on care and maintenance of trees, shrubs, ground covers, lawns and firesafe building construction practices. Safety training will be incorporated throughout the course. *Two hours lecture and Three hours lab.*

Fire Technology

FIRE 148GG

3.0 Units

Pre-Fire Silvicultural Practices

Course Advisory: SCC minimum English and math standards. A study of pre-fire forestry and silvicultural practices commonly used within the timber harvest industry with a special emphasis on: prescribed fire to reduce fire hazards and risks, harvesting trees for sale/barter that were removed to attain defensible space, California Environmental Quality Act (CEQA) regulations pertaining to timber harvesting, timber harvest plans, responsibilities of a registered professional forester, forest insect and disease identification/prevention/control, constructing shaded fuelbreaks and firebreaks, timber harvesting construction equipment identification and study of the hydrologic cycle and its appurtenant potential for causing erosion and mass soil movement. *Three hours lecture.*

FIRE 148W

2.0 Units

Hazardous Materials Technician 1A

Pre-requisite: FIRE 112. Course Advisory: Eligibility for ENGL 001. This is the first of four courses in a series which studies advanced hazardous materials incident management techniques emphasizing the aspects of basic fire chemistry and physics of chemical compounds as they relate to public and first responder safety including compound classification, states of matter, exothermic and endothermic reactions, alkalines, halogens, Noble gases, electron bonding, material propensities, flammable liquids, oxidation and reduction and mitigation procedures. Upon successful completion of all four of the courses in the series the student will qualify for California Specialized Training Institute (CSTI) certification. 'Student may challenge Fire 112 based on successful completion of a CSTI approved Hazardous Material-Operations course. *Forty lecture hours* (1 week).

FIRE 148X

2.0 Units

Hazardous Materials Technician 1B

Pre-requisite: FIRE 148W. Course Advisory: Eligibility for ENGL 001. This is the second of four courses in a series which studies advanced hazardous materials incident management techniques emphasizing detection, monitoring and handling of contaminants including dangerous particulates, gases, radiation and flammables; use of combustible gas indicators, flame and photo ionization detectors, radiation monitoring devices, colorimetric tubes, electrochemical sensors and infrared spectroscopy and a HazMat Chemical Identification Kit. Upon successful completion of all four of the courses in the series the student will qualify for California Specialized Training Institute (CSTI) certification. Students must purchase a HazCat Chemical Identification Kit. *Forty lecture hours* (1 week).

FIRE 148Y

2.0 Units

Hazardous Materials Technician 1C

Prerequisite(s): FIRE 148W and FIRE 148X. Course Advisory: Eligibility for ENGL 001. This is the third of four courses in a series which studies advanced hazardous materials incident management techniques emphasizing toxicological and meteorological factors, sheltering, evacuation, respiratory protection, and protective clothing; toxins, thresholds, exposure levels, antidotes, safe refuge and incident command system (ICS). Students will demonstrate their ability to utilize self contained breathing apparatus (SCBA), protective clothing, grounding and bonding equipment, plugging and patching, chemical sampling, testing and absorption. Upon successful completion of all four of the courses in the series the student will qualify for California Specialized Training Institute (CSTI) certification.

FIRE 148Z

2.0 Units

Hazardous Materials Technician 1D

Prerequisite(s): FIRE 148W, 148X, and 148Y Course Advisory: Eligibility for ENGL 001. This is the fourth of four courses in a series which studies advanced hazardous materials incident management techniques emphasizing the implementation of the employer's emergency response plan, incident command system and post incident analysis. Students will be required to perform solid and liquid sampling; identify sampling tools; use a belt weather kit; construct a dike and overflow dam; participate in a plugging, patching and overpacking exercise; demonstrate proper use of a chlorine A and B kit, overpacking a 55 gallon drum; and control leaks in a pipe or tank. Upon successful completion of all four of the courses in the series the student will qualify for California Specialized Training Institute (CSTI) certification.

FIRE 150

2.0 Units

Fire Command IA

Prerequisite(s): This is a course belonging to and controlled by the California State Fire Marshal (SFM) through its State Fire Training Division and that division controls all aspects of the administration of this course including prerequisites. The SFM prerequisites for this course are proof of (1) completion of ALL Fire Technology Core Courses with a grade of 'C' or better: FIRE 050; FIRE 051; FIRE 053; FIRE 054; FIRE 055; FIRE 065, or (2) attainment of an Associate Degree in Fire Technology. Dean approval based on SFM guidelines. Course Advisory: SCC minimum English standard. Presents the fire science principles and techniques applied to fire control and extinguishment; effective and efficient use of manpower, equipment, communications at fires and fire-related emergencies; pre-fire planning methods and techniques, and control and extinguishing methods for fires of all types. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).

Fire Technology

- FIRE 151** 2.0 Units
Fire Command IB
Prerequisite(s): FIRE 150 - Fire Command 1. A Course Advisory: SCC minimum English standard. Presents the fire science principles and techniques applied to fire control and extinguishment; effective and efficient use of manpower, equipment, communications at fire and fire-related emergencies; pre-fire planning methods, techniques of control and extinguishing methods for fires of all types. The principles and techniques described are related to hazardous materials incidents. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).
- FIRE 152** 2.0 Units
Fire Management 2C
Prerequisite(s): FIRE 165 - Fire Management 2A Organization and Development Course Advisory: SCC minimum English and math standards. Upon successful completion of this course, the student will have acquired all the necessary knowledge and skills to successfully deal with (a) representatives, officers and agents of organized labor unions, (b) labor relations representatives and, (c) subordinate personnel while administering progressive disciplinary measures, reprimanding and dismissing said personnel. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course). (Formerly FIRE 148S)
- FIRE 153** 2.0 Units
Rescue Systems I
Prerequisite(s): Low Angle Rope Rescue. Dean approval based on State Fire Marshals guidelines. Course Advisory: SCC minimum English and math standards. Provides the required knowledge and manipulative skills necessary to safely and effectively perform rescues from elevated and subterranean surfaces. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course). (Formerly FIRE 148T)
- FIRE 154** 2.0 Units
Strike Team Leader (S-334)
Prerequisite(s): Qualified Fire Officer. Dean approval based on State Fire Marshals guidelines. Course Advisory: SCC minimum English and math standards. Presents the methodologies and job performance requirements to adequately function as a Strike Team Leader in a Mutual Aid and Wildland Fire Capacity. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course). (Formerly FIRE 148U)
- FIRE 155** 1.0 Unit
Basic ICS (I-200)
Course Advisories: SCC minimum English and math standards. This is a course belonging to and controlled by the California State Fire Marshal (SFM) through its State Fire Training Division and that division controls all aspects of the administration of this course including prerequisites. The SFM prerequisites for this course is Dean approval based on proof of (1) Firefighter I Certification or (2) Documented member in Good Standing for at least two years in an organized fire entity. A course containing the contents of the Incident Command System (FIREScope I-200) including establishing the identity of command and resource section assignments of planning, operations, safety, logistics, resources, finance administration and communications. *Twelve hours lecture* (one to eight weeks course).
- FIRE 161** 2.0 Units
Fire Management I
Prerequisite(s): This is a course belonging to and controlled by the California State Fire Marshal (SFM) through its State Fire Training division and that division controls all aspects of the administration of this course including prerequisites. The SFM prerequisites for this course are proof of (1) Firefighter I Certification or (2) Documented member in Good Standing for at least two years in an organized fire entity. Dean approval based on SFM guidelines. Course Advisory: SCC minimum English standard. Study of fire company functions, operations, and public safety responsibilities; duties, functions, and responsibilities of fire company personnel; fire company personnel instruction, training, and administration; fire company records, reports and public relations with an emphasis on the company officers' role. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).
- FIRE 165** 2.0 Units
Fire Management 2A Organization and Development
Prerequisite: FIRE 161 - Fire Management I. Course Advisories: SCC minimum English and math standards. Prepares students to recognize and react to the different internal and external personality traits. Student will be taught to utilize fire service management principles in handling the different personality traits. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).
- FIRE 166** 2.0 Units
Management 2B-Finance for Chief Officer
Prerequisite: FIRE 165 - Management 2A Organization and Development. Course Advisories: SCC minimum English and math standards. Teaches the student to analyze, prioritize and adjust budget requests. Students will be taught to assemble, reinforce, and sell their budget proposals. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).

Fire Technology

FIRE 168 **2.0 Units**
Management 2D-Master Planning
Prerequisite: FIRE 165 - Management 2A Organization and Development. *Course Advisories:* SCC minimum English and math standards. Fire service program planning, master planning, forecasting, systems analysis, and policy analysis. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).

FIRE 169 **2.0 Units**
Fire Management 2E Issues and Concepts
Prerequisite: FIRE 165 - Management 2A Organization and Development. *Course Advisories:* SCC minimum English and math standards. Prepares students to work with the different legislative bodies and be familiar with urban politics. Special emphasis is placed on preparing students to work with different public agencies. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).

FIRE 170 **2.0 Units**
Fire Service Instructor IA
Prerequisite(s): This is a course belonging to and controlled by the California State Fire Marshal (SFM) through its State Fire Training Division and that division controls all aspects of the administration of this course including prerequisites. *The SFM prerequisites for this course are proof of (1) completion of ALL Fire Technology Core Courses with a grade of "C" or better: FIRE 050; FIRE 051; FIRE 053; FIRE 054; FIRE 055; FIRE 065, or (2) attainment of an Associate Degree in Fire Technology. Dean approval based on SFM guidelines. Course Advisory:* SCC minimum English standard. Provides a variety of methods and techniques to help fire service personnel select, develop and organize material for in-service programs. Includes methods of evaluation and an opportunity to apply major principles of learning through practice demonstrations. Designed for fire company officers who conduct in-service training programs. Repeatable 3 times. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).

FIRE 171 **2.0 Units**
Fire Service Instructor IB
Prerequisite: FIRE 170 - Fire Service Instructor 1A. *Course Advisory:* SCC minimum English standard. Designed to give the student more sophistication in the development, implementation and evaluation of in-service programs in the fire service. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).

FIRE 174 **2.0 Units**
Prevention 2A Systems and Building Components
Prerequisite(s): This is a course belonging to and controlled by the California State Fire Marshal (SFM) through its State Fire Training Division and that division controls all aspects of the administration of this course including prerequisites. *The SFM prerequisites for this course are proof of (1) Firefighter I Certification and Firefighter II Certification. Dean approval based on (SFM) guidelines. Course Advisories:* SCC minimum English and math standards. Designed for personnel who are seeking employment or are currently employed in the fire service or other related industrial fields. Emphasis is placed on utilizing codes relative to extinguishing or alarm systems and the evaluation of fire resistive building construction. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).

FIRE 176 **2.0 Units**
Prevention 2C-Special Hazard Occupancies
Prerequisite(s): This is a course belonging to and controlled by the California State Fire Marshal (SFM) through its State Fire Training Division and that division controls all aspects of the administration of this course including prerequisites. *The SFM prerequisites for this course are proof of (1) Firefighter I Certification and Firefighter II Certification. Dean approval based on (SFM) guidelines. Course Advisories:* SCC minimum English and math standards. Special fire prevention challenges. This course addresses industrial ovens, finishing processes, welding, refrigeration systems, and medical gases. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).

FIRE 177 **2.0 Units**
Investigation 2A Criminal & Legal Procedures
Prerequisite(s): This is a course belonging to and controlled by the California State Fire Marshal (SFM) through its State Fire Training Division and that division controls all aspects of the administration of this course including prerequisites. *The SFM prerequisites for this course are proof of (1) Firefighter I Certification and Firefighter II Certification. Dean approval based on (SFM) guidelines. Course Advisories:* SCC minimum English and math standards. Enables the student to effectively gather the required information for a search warrant and present it properly to a magistrate. Through mock trial, students learn proper court room demeanor and cross-examination skills. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).

Fire Technology

FIRE 180 **2.5 Units**
Public Education I-Systematic Planning & Communication Skills

Course Advisory: SCC minimum English standard.
Prerequisite(s): Firefighter I and II Certification, OR A documented member in good standing for at least two (2) years in an organized fire entity, OR Completion of all SCC Fire Technology Core Courses with a Grade of "C" or better; namely, FIRE 050, FIRE 051, FIRE 053, FIRE 054, FIRE 055, and FIRE 056. Topics include systematic planning process for public education, use of CFIRS to analyze local fire problems, communication skills, program evaluation, working with the media, integrating programs into schools, gaining community support, fire safety for children, interviewing and counseling juvenile fire setters, creating and using audio visual resources, and ideas and resource sharing. Repeatable 2 times. *Four hours lecture* (ten week course).

FIRE 185 **2.0 Units**
Fire Command 2A-Command Tactics at Major Fires

Prerequisite(s): This is a course belonging to and controlled by the California State Fire Marshal (SFM) through its State Fire Training Division and that division controls all aspects of the administration of this course including prerequisites. The SFM prerequisites for this course are proof of (1) Firefighter I Certification and Firefighter II Certification. Dean approval based on (SFM) guidelines. Course Advisories: SCC minimum English and math standards. Designed for chief officers and company officers, it prepares the student to use management techniques and the incident command system when commanding multiple alarms or large numbers of suppression forces. Applies to CHIEF OFFICER and accredited by CFSTES. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).

FIRE 186 **2.0 Units**
Command 2B-Command of Major Haz-Mat Incidents

Prerequisite(s): This is a course belonging to and controlled by the California State Fire Marshal (SFM) through its State Fire Training Division and that division controls all aspects of the administration of this course including prerequisites. The SFM prerequisites for this course are proof of (1) Firefighter I Certification and Firefighter II Certification. Dean approval based on (SFM) guidelines. Course Advisories: SCC minimum English and math standards. Prepares officers to manage serious hazardous materials incidents. The course includes areas of discussion on information and databases; organizations, agencies and institutions involved in hazardous materials response and research; planning for hazardous materials problems; legislation, litigation and liabilities of hazardous materials responses. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course)

FIRE 187 **2.0 Units**
Fire Command 2C High Rise Emergencies

Prerequisite(s): This is a course belonging to and controlled by the California State Fire Marshal (SFM) through its State Fire Training Division and that division controls all aspects of the administration of this course including prerequisites. The SFM prerequisites for this course are proof of (1) Firefighter I Certification and Firefighter II Certification. Dean approval based on (SFM) guidelines. Course Advisories: SCC minimum English and math standards. Designed for Chief Officers, company officers and fire fighters. The course prepares personnel to utilize the Incident Command System as well as tactics and strategy procedures in mitigating high rise emergencies. Emphasis is placed on pre-fire planning and internal fire protection systems. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course)

FIRE 188 **2.0 Units**
Command 2D-Disaster Planning

Prerequisite(s): This is a course belonging to and controlled by the California State Fire Marshal (SFM) through its State Fire Training Division and that division controls all aspects of the administration of this course including prerequisites. The SFM prerequisites for this course are proof of (1) Firefighter I Certification and Firefighter II Certification. Dean approval based on (SFM) guidelines. Course Advisories: SCC minimum English and math standards. Designed to prepare fire service personnel in planning for large scale disasters. Included are principles of disaster planning and management, fire service emergency plans, emergency operations centers, roles of local, state, and federal emergency management agencies. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).

FIRE 189 **2.5 Units**
Fire Command 2E Wildland Fire Fighting Tactics

Course Advisories: SCC minimum English and Math standards. A study of command techniques used in selecting and utilizing resources during wildland fire fighting. This is a component of the State Fire Marshall's Advanced Fire Command series. Field trips are required. *Two and one-half hours lecture.*

FIRE 190 **3.0 Units**
Emergency Response to Terrorism

Course Advisory: Eligibility for ENGL 001. Designed for first responders to weapons of mass destruction incidents, this course will provide a basic understanding of the identification, rescue, and exclusion zones applicable to these incidents. Repeatability: May be repeated up to three times. *Three hours lecture.*

Fire Technology

FIRE 196

2.0 Units

Prevention 2-B - Interpreting Codes

Prerequisite(s): This is a course belonging to and controlled by the California State Fire Marshal (SFM) through its State Fire Training Division and that division controls all aspects of the administration of this course including prerequisites. The SFM prerequisites for this course are proof of (1)

Firefighter I Certification and Firefighter II Certification.

Dean approval based on (SFM) guidelines. Course

Advisories: SCC minimum English and math standards.

Covers in-depth information about the fire and life safety standards of buildings as related to the UBC and Title 19 and 24. Types of construction, occupancy classifications, egress, interior finishes. Applied to Fire Prevention II and accredited by CFSTES. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).

FIRE 250

3.0 Units

Logistics Section Chief-I450

Course Advisories: SCC minimum English and math standards. Provides the training necessary to perform as a Logistics Section Chief trainee on typical emergency incidents such as hazardous materials spills, wildland fires, earthquakes, and other calamities Each student must attain a score of 80% on each unit test and final test in order to receive a NWCG Certificate as a Logistics Section Chief. *Forty-eight hours lecture* (one week course).

FIRE 251

3.0 Units

Supply Unit Leader SEMS/ICS

Course Advisories: SCC minimum English and math standards. Students who successfully pass this course with an 80% or higher score will be certified as mastering the NWCG Supply Unit Leader course of study. This places the student as a 'trainee' Supply Unit Leader and requires the student to perform successfully on one emergency incident as a trainee in order to become qualified as a Supply Unit Leader. With this the course the student is eligible to apply for the 'Red Card' certification as a Supply Unit Leader. *Three hours lecture.*

FIRE Special Topics

These courses, numbered 048, 098, or 148 depending upon their transferability, are courses of contemporary interest centered on changing knowledge and important issues in the field. Announcements of Special Topics courses appear in the Schedule of Classes.

Foreign Languages

Foreign Languages, General

Program Description

This program introduces the fundamentals of language learning (listening, speaking, reading, writing, and culture) with emphasis on language production, grammar, syntax, vocabulary acquisition, and exposure to the culture. This program provides study in more than one language.

Associate of Art Degree

The Associate in Arts Degree can be obtained by completing a total of 60 units, including a minimum of 20 units from the courses listed below in at least two different languages, the general education requirements, and electives. All courses in the major must be completed with a grade of C or better or a P if the course is taken on a pass-no pass basis.

Program Outcomes

Students who complete an Associate Degree will be able to:

Read, write, speak, listen, and engage with the target culture in more than one language, at the novice-mid to advanced proficiency levels (depending on course level), as prescribed by the ACTFL Proficiency Guidelines and the ILR Culture Proficiency Guidelines. (Minimum of 20 units)

Required Courses Units

French	
FREN 001 First Semester French	5
<i>or</i>	
FREN 031 First Semester French, Part 1	3
<i>and</i>	
FREN 032 First Semester French, Part 2	3
FREN 002 Second Semester French	5
<i>or</i>	
FREN 033 Second semester French, Part 1	3
<i>and</i>	
FREN 034 Second Semester French, Part 2	3
FREN 003 Third Semester French	5
FREN 004 Fourth Semester French	5
FREN 011 Conversational French	3
FREN 012 Intermediate French Conversation	3

German Units

GRMN 001 First Semester German	5
<i>or</i>	
GRMN 031 First Semester German, Part 1	3
<i>and</i>	
GRMN 032 First Semester German, Part 2	3
GRMN 002 Second Semester German	5
<i>or</i>	
GRMN 033 Second Semester German, Part 1	3
<i>and</i>	
GRMN 034 Second Semester German, Part 2	3
GRMN 003 Third Semester German	5
GRMN 004 Fourth Semester German.	5
GRMN 011 Conversational German	3
GRMN 012 Intermediate German Conversation	3

Spanish Units

SPAN 001 First Semester Spanish	5
<i>or</i>	
SPAN 031 First Semester Spanish, Part 1	3
<i>and</i>	
SPAN 032 First Semester Spanish, Part 2	3
SPAN 002 Second Semester Spanish	5
<i>or</i>	
SPAN 033 Second Semester Spanish, Part 1	3
<i>and</i>	
SPAN 034 Second Semester Spanish, Part 2	3
SPAN 003 Third Semester Spanish	5
SPAN 004 Fourth Semester Spanish	5
SPAN 011 Conversational Spanish.	3
SPAN 012 Intermediate Spanish Conversation	3

Latin Units

LATN 001 Latin Fundamentals	3
LATN 002 Latin Fundamentals	3
LATN 003 Latin Fundamentals	3

Foreign Languages

Foreign Languages, Individual

Program Description

This program introduces the fundamentals of language learning (listening, speaking, reading, writing, and culture) with emphasis on language production, grammar, syntax, vocabulary acquisition, and exposure to the culture. This program requires study be accomplished in one language only.

Certificate of Achievement and Associate in Science Degree

The Associate in Arts Degree can be obtained by completing a total of 60 units, including a minimum of 18 units in one of the languages listed below, the general education requirements, and electives. All courses in the major must be completed with a grade of C or better or a P if the course is taken on a pass-no pass basis.

Program Outcomes

Students who complete the Certificate of Achievement/Associate Degree will be able to:

1. Read, write, speak, listen, and engage with the target culture at the novice-mid to advanced-low proficiency levels (depending on course level), as prescribed by the ACTFL Proficiency Guidelines and the ILR Culture Proficiency Guidelines

Required Courses Units

Foreign Language, French

FREN 001 First Semester French	5
FREN 002 Second Semester French	5
FREN 003 Third Semester French	5
FREN 004 Fourth Semester French	5
FREN 011 Conversational French	3
FREN 012 Intermediate French Conversation	3
FREN 031 First Semester French, Part 1	3
FREN 032 First Semester French, Part 2	3
FREN 033 Second semester French, Part 1	3
FREN 034 Second Semester French, Part 2	3
FREN 049 French Honors.	1 - 3

Foreign Language, German Units

GRMN 001 First Semester German	5
GRMN 002 Second Semester German	5
GRMN 003 Third Semester German	5
GRMN 004 Fourth Semester German.	5
GRMN 011 Conversational German	3
GRMN 012 Intermediate German Conversation.	3
GRMN 031 First Semester German, Part 1	3
GRMN 032 First Semester German, Part 2	3
GRMN 033 Second Semester German, Part 1	3
GRMN 034 Second Semester German, Part 2	3
GRMN 049 German Honors 1	3

Foreign Language, Spanish Units

SPAN 001 First Semester Spanish	5
SPAN 002 Second Semester Spanish	5
SPAN 003 Third Semester Spanish	5
SPAN 004 Fourth Semester Spanish	5
SPAN 011 Conversational Spanish	3
SPAN 012 Intermediate Spanish Conversation	3
SPAN 025 Introduction to Latin- American Culture: An Exploration of Identity Through Essay, Film, and Short Story	3
SPAN 031 First Semester Spanish, Part 1	3
SPAN 032 First Semester Spanish, Part 2	3
SPAN 033 Second Semester Spanish, Part 1	3
SPAN 034 Second Semester Spanish, Part 2	3
SPAN 049 Spanish Honors	1 - 3
SPAN 061M Beginning Spanish, Part 1 for Medical Workers	3
SPAN 062M Beginning Spanish, Part 2 for Medical Workers	3
SPAN 063M Beginning Spanish, Part 3 for Medical Workers	3
SPAN 064M Beginning Spanish, Part 4 for Medical Workers	3
SPAN 001S Spanish for Spanish Speakers 1	5
SPAN 002S Spanish for Spanish Speakers 2	5

Foreign Languages

Foreign Languages, French

FREN 001 5.0 Units

First Semester French

Prerequisite: None. NOTE: Not open for credit to students who have had two or more years of high school French with a grade of 'B' or better within the last three years or to students who have completed FREN 031 and/or 032. Course Advisory: SCC minimum English standard. Introduces the fundamental elements of the language (listening, speaking, reading, writing and culture) with emphasis on language production, grammar, syntax, acquisition of a practical vocabulary, and exposure to the Francophone culture. Exams, quizzes, written and oral assignments and completion of the lab manual will be used to evaluate student progress. *Five hours lecture, one hour weekly of listening to tapes.*

FREN 002 5.0 Units

Second Semester French

Prerequisites: FREN 001, or FREN 031 and 032, or two years of high school French. NOTE: Not open to students who have completed FREN 033 and/or 034. Continuation of FREN 001 introducing the fundamentals of French (listening, speaking, reading, writing and culture) with increased emphasis on writing and continued stress on language production, pronunciation, grammar, syntax, acquisition of a practical vocabulary, and exposure to the Francophone culture. Exams, quizzes, written and oral assignments and completion of the lab manual will be used to evaluate student progress. *Five hours lecture, one hour weekly of listening to tapes.*

FREN 003 5.0 Units

Third Semester French

Prerequisites: FREN 002, or FREN 034, or three years of high school French. Continuation of FREN 002, FREN 003 expands the student's knowledge of the language (listening, speaking, reading, writing and culture) with emphasis on language production, grammar, syntax, and acquisition of a practical vocabulary, and exposure to Francophone culture. In addition, students will read and discuss short selections taken from a literary and cultural anthology. Exams, quizzes, written and oral assignments and completion of the lab manual will be used to evaluate student progress. *Five hours lecture.*

FREN 004 5.0 Units

Fourth Semester French

Prerequisite: FREN 003. Complete review and expansion of grammar, idioms and structure, use of complex tenses and stylistic explanations. Extensive work is done in reading, writing and conversing in French. Students will subscribe to and learn to read effectively a French newspaper. There will be an introduction to serious literary works in French with an introduction to literary analysis in both written (la redaction) and oral (l'explication de texte) forms. Exams, quizzes, written and oral assignments and completion of the lab manual will be used to evaluate student progress. *Five hours lecture.*

FREN 011 3.0 Units

Conversational French

Prerequisite: FREN 002 or FREN 034 with a grade of 'C' or better. Designed to promote competency in the oral use of the language and to increase fluency by reinforcing previously learned materials and by expanding vocabulary and patterns of speech. This course emphasizes the practical application of the language, not grammar acquisition or review. *Three hours lecture.*

FREN 012 3.0 Units

Intermediate French Conversation

Prerequisite(s): FREN 011 or the equivalent. This course is a continuation of FREN 11, and is designed to promote competency in the oral use of the language and to increase fluency by expanding beyond previously learned materials, vocabulary and patterns of speech. The course emphasizes the practical application of the language, not grammar acquisition or review, exposing students to global awareness through a rich variety of Francophone cultural sources. *Three hours lecture.*

FREN 031 3.0 Units

First Semester French, Part I

Prerequisites: NOTE: Not open for credit to students who have received credit for FREN 001 or to students who have had two or more years of high school French with a grade of 'B' or better within the past three years. NOTE: In order to fulfill the one semester of French 1 requirement of some universities, transfer students must complete the sequence of FREN 031-032. Course Advisory: SCC minimum English standard. Introduces the basic elements of the language (listening, speaking, reading, writing and culture) with emphasis on language production, grammar, syntax, vocabulary building, and exposure to the Francophone culture. Exams, quizzes, written and oral assignments and completion of the lab manual will be used to evaluate student progress. *Three hours lecture, one hour weekly of listening to tapes.*

FREN 032 3.0 Units

First Semester French, Part II

Prerequisites: FREN 031 or one year of high school French. NOTE: Not open for credit to students who have completed FREN 001 or who have had two or more years of high school French with a grade of 'B' or better within the last three years. NOTE: In order to fulfill the one-semester French 1 requirement of some universities, transfer students must complete the sequence of FREN 031 and 032. Continuation of FREN 031 introducing the fundamental elements of the language (listening, speaking, reading, writing and culture) with continued emphasis on language production, grammar, syntax, vocabulary building, and exposure to the French culture. Exams, quizzes, written assignments and completion of the lab manual will be used to evaluate student progress. *Three hours lecture, one hour weekly of listening to tapes.*

Foreign Languages

FREN 033 Second Semester French, Part I <i>Prerequisites: FREN 001 or FREN 032. Not open for credit to students who have received credit for FREN 002.</i> Continuation of FREN 001 (or FREN 032), presenting the fundamentals of French (listening, speaking, reading, writing and culture), with increased emphasis on writing and continued stress on language production, pronunciation, grammar, syntax, acquisition of a practical vocabulary, and exposure to the Francophone culture. Exams, quizzes, written and oral assignments and completion of the lab manual will be used to evaluate student progress. <i>Three hours lecture.</i>	3.0 Units	GRMN 002 Second Semester German <i>Prerequisites: GRMN 001, or GRMN 031 and 032, or two years of high school German or the equivalent. NOTE: Not open to students who have completed GRMN 033 and/or 034.</i> Continuation of GRMN 1, presenting the fundamentals of German (listening, speaking, reading, writing and culture), with increased emphasis on writing and continued stress on language production, pronunciation, grammar, syntax, acquisition of a practical vocabulary, and exposure to the German culture. Exams, quizzes, written assignments and completion of the lab manual will be used to evaluate student progress. <i>Five hours lecture, one hour weekly of listening to tapes.</i>	5.0 Units
FREN 034 Second Semester French, Part II <i>Prerequisites: FREN 033. Not open for credit to students who have received credit for FREN 002.</i> Continuation of FREN 033, presenting the fundamentals of French (listening, speaking, reading, writing and culture), with increased emphasis on writing and continued stress on language production, pronunciation, grammar, syntax, acquisition of a practical vocabulary, and exposure to the Francophone culture. Exams, quizzes, written and oral assignments and completion of the lab manual will be used to evaluate student progress. <i>Three hours lecture.</i>	3.0 Units	GRMN 003 Third Semester German <i>Prerequisite: GRMN 002, or GRMN 034, or three years of high school German.</i> Completes the students' introduction to the fundamentals of German, reviewing and refining many of the concepts covered in GRMN 001 and 002 so that students are prepared to deal with more advanced grammar, reading, writing and conversation in German. Exposure to the culture and thinking of the German-speaking peoples is accomplished through the reading of literature by representative German, Austrian and Swiss writers. Exams, quizzes, written assignments and completion of the lab manual will be used to evaluate student progress. <i>Five hours lecture.</i>	5.0 Units
FREN 049 French Honors <i>Prerequisites: Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 5 units in the discipline with a grade of 'B' or better; an ability to work independently; permission of the Division Dean based on instructor availability.</i> Independent study and research, by arrangement with the instructor, in specified fields of study in French or creative writing in French. May be repeated to a maximum of 6 units, including initial enrollment. <i>Three to nine hours weekly by arrangement with instructor and division Dean.</i>	1.0 to 3.0 Units	GRMN 004 Fourth Semester German <i>Prerequisite: GRMN 003 or four years of high school German.</i> Continues the review and expansion of students' knowledge of basic German begun in GRMN 003, while emphasizing several fine points of more advanced German grammar for closer study. Exposure to the culture and thinking of the German-speaking peoples is accomplished through the reading of literature by representative German, Austrian and Swiss writers. Exams, quizzes, written assignments and completion of the lab manual will be used to evaluate student progress. <i>Five hours lecture.</i>	5.0 Units
Foreign Languages, German			
GRMN 001 First Semester German <i>Prerequisite: None. NOTE: Not open for credit to students who have had two or more years of high school German with a grade of 'B' or better within the last three years or to students who have completed GRMN 031 and/or 032. Course Advisory: SCC minimum English standard.</i> Introduces the fundamental elements of the language (listening, speaking, reading, writing and culture) with emphasis on language production, grammar, syntax, acquisition of a practical vocabulary, and exposure to the German culture. Exams, quizzes, written assignments and completion of the lab manual will be used to evaluate student progress. <i>Five hours lecture, one hour weekly of listening to tapes.</i>	5.0 Units	GRMN 011 Conversational German <i>Prerequisite: GRMN 002 or GRMN 034 with a grade of 'C' or better.</i> Designed to promote competency in the oral use of the language and to increase fluency by reinforcing previously learned materials and by expanding vocabulary and patterns of speech. <i>Three hours lecture.</i>	3.0 Units

Foreign Languages

GRMN 012 3.0 Units

Intermediate German Conversation

Prerequisite(s): GRMN 011. A continuation of GERMN 11, designed to promote competency in the oral use of the language and to increase fluency by reinforcing previously learned materials and by expanding vocabulary and patterns of speech. The course emphasizes the practical application of the language, not grammar acquisition or review, exposing students to global awareness through a rich variety of cultural sources from the German-speaking world. *Three hours lecture.*

GRMN 031 3.0 Units

First Semester German, Part I

Prerequisites: None. NOTE: Not open for credit to students who have had two or more years of high school German with a grade of 'B' or better within the last three years or to students who have completed GRMN 001. NOTE: In order to fulfill the one-semester German 1 requirement of some universities, transfer students must complete the sequence of GRMN 031 and 032. Course Advisory: SCC minimum English standard. Introduces the basic elements of the language (listening, speaking, reading, writing and culture) with emphasis on language production, grammar, syntax, vocabulary building, and exposure to the German culture. Exams, quizzes, written assignments and completion of the lab manual will be used to evaluate student progress. *Three hours lecture, one hour weekly of listening to tapes.*

GRMN 032 3.0 Units

First Semester German, Part II

Prerequisites: GRMN 031 or one year of high school German. NOTE: Not open for credit to students who have had two or more years of high school German with a grade of 'B' or better within the last three years or to students who have completed GRMN 001. NOTE: In order to fulfill the one-semester German 1 requirement of some universities, transfer students must complete the sequence of GRMN 031-032. Continuation of GRMN 031, presenting an introduction to the fundamental elements of the language (listening, speaking, reading, writing and culture) with continued emphasis on language production, grammar, syntax, vocabulary building, and exposure to the German culture. Exams, quizzes, written assignments and completion of the lab manual will be used to evaluate student progress. *Three hours lecture, one hour weekly of listening to tapes.*

GRMN 033 3.0 Units

Second Semester German, Part I

Prerequisites: GRMN 001 or GRMN 032. NOTE: Not open for credit to students who have received credit for GRMN 002. Continuation of GRMN 001 (or GRMN 032), presenting the fundamentals of German (listening, speaking, reading, writing and culture), with increased emphasis on writing and continued stress on language production, pronunciation, grammar, syntax, acquisition of a practical vocabulary, and exposure to the Germanic culture. Exams, quizzes, written assignments and completion of the lab manual will be used to evaluate student progress. *Three hours lecture.*

GRMN 034 3.0 Units

Second Semester German, Part II

Prerequisites: GRMN 033. Not open for credit to students who have received credit for GRMN 002. Continuation of GRMN 033, presenting the fundamentals of German (listening, speaking, reading, writing and culture), with increased emphasis on writing and continued stress on language production, pronunciation, grammar, syntax, acquisition of a practical vocabulary, and exposure to the Germanic culture. Exams, quizzes, written assignments and completion of the lab manual will be used to evaluate student progress. *Three hours lecture.*

GRMN 049 1.0 to 3.0 Units

German Honors

Prerequisites: Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 5 units in the discipline with a grade of 'B' or better; an ability to work independently; permission of the Division Dean based on instructor availability. Independent study and research, by arrangement with the instructor, in specified fields of study in German or creative writing in German. May be repeated to a maximum of 6 units, including initial enrollment. *Three to nine hours weekly by arrangement with instructor and division Dean.*

Foreign Languages, Italian

ITAL 031 3.0 Units

First Semester Italian, Part I

Course Advisory: SCC minimum English standard.

Introduces the basic elements of the language (listening, speaking, reading, writing and culture), with emphasis on language production, grammar, syntax, vocabulary building, and exposure to Italian culture. Exams, quizzes, written assignments and completion of the lab manual will be used to evaluate student progress. (NOTE: In order to fulfill the one-semester foreign language requirement of some universities, transfer students must complete the sequence of ITAL 31 and 32). *Three hours lecture, one hour weekly by arrangement.*

ITAL 032 3.0 Units

First Semester Italian, Part II

Prerequisite: ITAL 031. Course Advisory: SCC minimum English standard. Continuation of ITAL 031 introducing students to the fundamental elements of the language (listening, speaking, reading, writing and culture), with emphasis on language production, grammar, syntax, vocabulary building, and exposure to Italian culture. Exams, quizzes, written assignments and completion of the lab manual will be used to evaluate student progress. *Three hours lecture, one hour weekly by arrangement.*

Foreign Languages

ITAL 033 3.0 Units
Second Semester Italian, Part I

Prerequisite: ITAL 032. Course Advisories: SCC minimum English standard. Continuation of ITAL 032 presenting the fundamentals of Italian (listening, speaking, reading, writing and culture), with increased emphasis on writing and continued stress on language production, pronunciation, grammar, syntax, acquisition of a practical vocabulary, and exposure to Italian culture. Exams, quizzes, written assignments and completion of the lab manual will be used to evaluate student progress. *Three hours lecture, one hour weekly by arrangement.*

ITAL 034 3.0 Units
Second Semester Italian, Part II

Prerequisite: ITAL 033. Course Advisory: SCC minimum English standard. Continuation of ITAL 033 presenting the fundamentals of Italian (listening, speaking, reading, writing and culture), with increased emphasis on writing and continued stress on language production, pronunciation, grammar, syntax, acquisition of a practical vocabulary, and exposure to Italian culture. Exams, quizzes, written assignments and completion of the lab manual will be used to evaluate student progress. *Three hours lecture, one hour weekly by arrangement.*

Foreign Languages, Japanese

JAPN 101 3.0 Units
Conversational Japanese

Course Advisory: SCC minimum English standard. A practical course stressing essentials of vocabulary, pronunciation and basic conversation patterns; the students will be introduced to aspects of Japanese culture. *Three hours lecture.*

JAPN 102 3.0 Units
Conversational Japanese

Prerequisite: JAPN 101. A continuation of JAPN 101 which reviews and expands on the previously learned vocabulary, pronunciation, grammar, and conversation patterns. A high emphasis will be on the spoken language in realistic situations. *Three hours lecture.*

Foreign Languages, Latin

LATN 001 3.0 Units
Latin Fundamentals

Course Advisory: SCC minimum English standard. Introduction to the Latin language - to its sonorous quality, its treasury of words, its inflectional system, and the logic of its syntax. *Three hours lecture.*

LATN 002 3.0 Units
Latin Fundamentals

Prerequisite: LATN 001. Continued introduction to the Latin language - to its treasury of words, its inflectional system, the logic of its syntax, its ability to clarify difficult grammatical concepts for students of modern languages, its legacy of English derivatives and of the nomenclatures of scholarship, the sciences, and the arts. *Three hours lecture.*

LATN 003 3.0 Units
Latin Fundamentals

Prerequisites: LATN 001 and 002. Advanced study of the Latin Language and Literature; advanced study of syntax and complex sentence structures in Latin; reading from original Latin authors including Caesar, Cicero, Catullus and Horace. *Three hours lecture.*

LATN 049 1.0 Unit
Latin Honors

Prerequisites: Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 5 units in the discipline with a grade of 'B' or better; an ability to work independently; permission of the Division Dean based on instructor availability. Independent study and research, by arrangement with the instructor, in specified fields of study in Latin or creative writing in Latin. May be repeated to a maximum of 6 units, including initial enrollment. *Three to nine hours weekly by arrangement with instructor and division Dean.*

Foreign Languages, Portuguese

PORT 101 3.0 Units
Conversational Portuguese

Course Advisories: SCC minimum English and math standards. Introduction to the Portuguese language, grammar, and idiom. The course emphasizes the acquisition of basic grammatical structures, the development of vocabulary and pronunciation, and exposure to Portuguese and Brazilian culture. *Three hours lecture.*

PORT 102 3.0 Units
Conversational Portuguese

Prerequisite: PORT 101. Course Advisories: SCC minimum English and math standards. Continued introduction to the Portuguese language, grammar, and idioms. The course emphasizes the acquisition of basic grammatical structures, the development of vocabulary and pronunciation, and exposure to Portuguese and Brazilian culture. *Three hours lecture.*

Foreign Languages

Foreign Languages, Spanish

SPAN 001 5.0 Units

First Semester Spanish

Prerequisite: None. *NOTE:* Not open for credit to students who have had two or more years of high school Spanish with a grade of 'B' or better within the last three years or to students who have completed SPAN 01S, or SPAN 031 and/or 032, or SPAN 61M and/or 62M. *Course Advisory:* SCC minimum English standard. Introduces the fundamental elements of the language (listening, speaking, reading, writing and culture) with emphasis on language production, grammar, syntax, acquisition of a practical vocabulary, and exposure to the Hispanic culture. Exams, quizzes, written assignments and completion of the lab manual will be used to evaluate student progress. *Five hours lecture, one hour weekly of listening to tapes.*

SPAN 001S 5.0 Units

Spanish for Spanish Speakers 1

Prerequisite: Oral fluency in Spanish. *NOTE:* Not open for credit to students who have completed SPAN 01S, or SPAN 031 and/or 032, or SPAN 061M and/or 062M. *Course Advisories:* SCC minimum English and math standards. This course, which is conducted in Spanish, is the first of a two-semester sequence designed for fluent speakers of Spanish who are proficient in the language, but who have had little or no formal language training. It is meant to provide Spanish language experiences for Spanish-speaking students in pronunciation, aural comprehension, oral and written communication, word usage and vocabulary, reading of prose and elementary principles of grammar. Exams, quizzes, written and oral assignments, and participation in group discussions will be used to evaluate student progress. *Five hours lecture.*

SPAN 002 5.0 Units

Second Semester Spanish

Prerequisites: SPAN 001, or SPAN 001S, or SPAN 032, or SPAN 062M, or two years of high school Spanish. *NOTE:* Not open to students who have completed SPAN 002S, or SPAN 033 and/or 034, or SPAN 063M and/or 064M. Continuation of Spanish 001, presenting the fundamentals of Spanish (listening, speaking, reading, writing and culture), with increased emphasis on writing and continued stress on language production, pronunciation, grammar, syntax, acquisition of a practical vocabulary, and exposure to the Hispanic culture. Exams, quizzes, written assignments and completion of the lab manual will be used to evaluate student progress. *Five hours lecture, one hour weekly of listening to tapes.*

SPAN 002S 5.0 Units

Spanish for Spanish Speakers 2

Prerequisite: SPAN 001S, or SPAN 001, or SPAN 031 and 032, or SPAN 061M and 062M, and oral fluency in Spanish. *NOTE:* Not open to students who have completed SPAN 002, or SPAN 033 and/or 034, or SPAN 063M and/or 064M. *Course Advisories:* SCC minimum English and math standards. This course, which is conducted in Spanish, is the second part of a two-semester sequence designed for fluent speakers of Spanish who are proficient in the language, but who have had little or no formal language training. It is meant to provide Spanish language experiences for Spanish-speaking students in pronunciation, aural comprehension, oral and written communication, word usage and vocabulary, reading of prose and elementary principles of grammar. Exams, quizzes, written and oral assignments, and participation in group discussions will be used to evaluate student progress. *Five hours lecture.*

SPAN 003 5.0 Units

Third Semester Spanish

Prerequisites: SPAN 002, or SPAN 002S, or SPAN 034, or SPAN 064M, or three years of high school Spanish. A continuation of Spanish 001 and 002. Extensive work is required in grammar, reading, writing, and conversation. Reading includes representative literary selections by Spanish and Latin American writers. Exams, quizzes, and compositions will be used to evaluate student progress. *Five hours lecture.*

SPAN 004 5.0 Units

Fourth Semester Spanish

Prerequisites: SPAN 003 or four years of high school Spanish. *Continuation of Spanish 3.* Reviews and expands knowledge of elements previously learned, while introducing new material. Exposure to the culture and thinking of the Hispanic peoples is accomplished through the reading of literature by representative Spanish or Latin American writers. Exams, quizzes and compositions will be used to evaluate student progress. *Five hours lecture.*

SPAN 011 3.0 Units

Conversational Spanish

Prerequisite: SPAN 002, or SPAN 02S, or SPAN 034, or SPAN 64M with a grade of 'C' or better. Designed to promote competency in the oral use of the language and to increase fluency by reinforcing previously learned materials and by expanding vocabulary and patterns of speech. This course emphasizes the practical application of the language, not grammar acquisition or review. *Three hours lecture.*

Foreign Languages

- SPAN 012** **3.0 Units**
Intermediate Spanish Conversation
Prerequisite(s): Spanish 011. This course is a continuation of SPAN 11, and is designed to promote competency in the oral use of the language and to increase fluency by expanding beyond previously learned materials, vocabulary, and patterns of speech. The course emphasizes the practical application of the language, not grammar acquisition or review, exposing students to global awareness through a rich variety of Latino cultural sources. *Three lecture hours.*
- SPAN 025** **3.0 Units**
Intro to Latin-American Culture: An Exploration of Identity Through Essay, Film, and Short Story
Prerequisite: SPAN 003. Course Advisory: SCC minimum English standard. Explores the Latin-American identity: What is Latin America and who are the Latin Americans? The focus will be on contemporary issues, customs, political and historical events, and major institutions of Latin America as expressed in contemporary Latin-American essays, films and short stories. This course will be taught in Spanish. *Three hours lecture.*
- SPAN 031** **3.0 Units**
First Semester Spanish, Part I
Prerequisites: None. NOTE: Not open for credit to students who have received credit for SPAN 001, or SPAN 001S, or SPAN 061M, or who have had two or more years of high school Spanish with a grade of 'B' or better within the last three years. NOTE: In order to fulfill the one-semester Spanish 001 requirement of some universities, transfer students must complete the sequence of Spanish 031 and 032. Course Advisory: SCC minimum English standard. Introduces the basic elements of the language (listening, speaking, reading, writing and culture) with emphasis on language production, grammar, syntax, vocabulary building, and exposure to the Hispanic culture. Exams, quizzes, written assignments and completion of the lab manual will be used to evaluate student progress. *Three hours lecture, one hour weekly of listening to tapes.*
- SPAN 032** **3.0 Units**
First Semester Spanish, Part II
Prerequisites: SPAN 031 or SPAN 061M. NOTE: Not open for credit to students who have received credit for SPAN 001, or SPAN 001S, or SPAN 062M, or who have had two or more years of high school Spanish with a grade of 'B' or better within the last three years. NOTE: In order to fulfill the one-semester Spanish 001 requirement of some universities, transfer students must complete the sequence of Spanish 031 and 032. Continuation of Spanish 031, presenting the fundamental elements of the language (listening, speaking, reading, writing and culture) with continued emphasis on language production, grammar, syntax, vocabulary building, and exposure to the Hispanic culture. Exams, quizzes, written assignments and completion of the lab manual will be used to evaluate student progress. *Three hours lecture, one hour weekly of listening to tapes.*
- SPAN 033** **3.0 Units**
Second Semester Spanish, Part I
Prerequisites: SPAN 001, or SPAN 001S, or SPAN 032, or SPAN 062M. Not open for credit to students who have received credit for SPAN 002, SPAN 002S, or SPAN 063M. Continuation of Spanish 001 (or Spanish 032), presenting the fundamentals of Spanish (listening, speaking, reading, writing and culture), with increased emphasis on writing and continued stress on language production, pronunciation, grammar, syntax, acquisition of a practical vocabulary, and exposure to the Hispanic culture. Exams, quizzes, written assignments and completion of the lab manual will be used to evaluate student progress. *Three hours lecture.*
- SPAN 034** **3.0 Units**
Second Semester Spanish, Part II
Prerequisites: SPAN 033 or SPAN 063M. NOTE: Not open for credit to students who have received credit for SPAN 002 or SPAN 002S. Continuation of Spanish 033, presenting the fundamentals of Spanish (listening, speaking, reading, writing and culture), with increased emphasis on writing and continued stress on language production, pronunciation, grammar, syntax, acquisition of a practical vocabulary, and exposure to the Hispanic culture. Exams, quizzes, written assignments and completion of the lab manual will be used to evaluate student progress. *Three hours lecture.*
- SPAN 048A** **3.0 Units**
Spanish Cinema for Conversation
Prerequisite: SPAN 003. Course Advisories: SCC minimum English and math standards. This course will expose students to the diversity and complexity of Spanish and Latin American thought as expressed in films in the target language with the use of subtitles. The spring-board for building of the students' conversational skills will be issues that inform contemporary culture and, secondarily, an exploration of their artistic and cinematic rendition. Conversations and essays will also address the specific cinematic and artistic techniques and symbolism, of each film. Active participation, viewing and discussion of all films is necessary for completion of the course. NOTE: This course will be conducted in Spanish. *Three hours lecture.*
- SPAN 049** **1.0 to 3.0 Units**
Spanish Honors
Prerequisites: Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 5 units in the discipline with a grade of 'B' or better; an ability to work independently; permission of the Division Dean based on instructor availability. Independent study and research, by arrangement with the instructor, in specified fields of study in Spanish or creative writing in Spanish. May be repeated to a maximum of 6 units, including initial enrollment. *Three to nine hours weekly by arrangement with instructor and Division Dean.*
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Foreign Languages

SPAN 061M 3.0 Units

Beginning Spanish, Part 1 for Medical Workers

Prerequisite: None. NOTE: Students who complete this course will not be able to receive credit for SPAN 031, SPAN 001, or SPAN 001S. Course Advisory: SCC minimum English standard. Introduces the basic elements of the language (listening, speaking, reading, writing and culture), with emphasis on language production in a medical setting. Grammar, syntax, and vocabulary building will be taught with the aim of producing oral and written competency in a medical setting. Exams, quizzes, and written assignments will be used to evaluate student progress. *Three hours lecture, one hour weekly by arrangement.*

SPAN 062M 3.0 Units

Beginning Spanish, Part 2 for Medical Workers

Prerequisite: SPAN 061M or SPAN 031. Course Advisory: SCC minimum English standard. NOTE: Students who complete this course will not be able to get credit for SPAN 032, SPAN 001, or SPAN 001S. Introduces the basic elements of the language (listening, speaking, reading, writing and culture), with emphasis on language production in a medical setting. Grammar, syntax, and vocabulary building will be taught with the aim of producing oral and written competency in a medical setting. Exams, quizzes, and written assignments will be used to evaluate student progress. *Three hours lecture, one hour weekly by arrangement.*

SPAN 063M 3.0 Units

Beginning Spanish, Part 3 for Medical Workers

Prerequisites: SPAN 062M, or SPAN 032, or SPAN 001, or SPAN 001S. Course Advisory: SCC minimum English standard. NOTE: Not open to students who have completed SPAN 002, or SPAN 002S, or SPAN 033. Continuation of SPAN 062M, presenting the fundamentals of Spanish (listening, speaking, reading, writing and culture), with increased emphasis on writing and continued stress on language production in a medical setting. Grammar, syntax, and vocabulary building will be taught with the aim of producing oral and written competency in a medical setting. Exams, quizzes, and written assignments will be used to evaluate student progress. *Three hours lecture, one hour weekly by arrangement.*

SPAN 064M 3.0 Units

Beginning Spanish, Part 4 for Medical Workers

Prerequisite: SPAN 063M or SPAN 033. Course Advisory: SCC minimum English standard. NOTE: Not open to students who have completed SPAN 002, or SPAN 002S, or SPAN 034. Continuation of SPAN 063M, presenting the fundamentals of Spanish (listening, speaking, reading, writing and culture), with increased emphasis on writing and continued stress on language production in a medical setting. Grammar, syntax, and vocabulary building will be taught with the aim of producing oral and written competency in a medical setting. Exams, quizzes, and written assignments will be used to evaluate student progress. *Three hours lecture, one hour weekly by arrangement.*

Foreign Languages, Tagalog

TAG 101 3.0 Units

Conversational Tagalog

Course Advisory: SCC minimum English standard. An introduction to basic Tagalog designed to acquaint student with basic sentences and vocabulary used in daily conversation. The course will include emphasis on proper pronunciation and intonation as well as an introduction to Philippine customs and culture. *Three hours lecture.*

TAG 102 3.0 Units

Conversational Tagalog

Prerequisite: TAG 101. An intermediate study of basic Tagalog which introduces students to more intricate sentence patterns and further use of functional words in oral communication. The course will also include further study of Philippine culture and new points of Tagalog grammar. *Three hours lecture.*

Foreign Languages

FLNG 048 3.0 Units

Special Topics

These courses, numbered 048 or 098, depending upon their transferability, are courses of contemporary interest centered on changing, knowledge and important issues in the field. Announcements of Special Topics courses appear in the Schedule of Classes.

FLNG 101 3.0 Units

Cross Age Teaching

Prerequisite: Students must have completed French 002 or German 002. Students are assigned to elementary school classes in Solano County to provide foreign language instruction on a weekly basis. Working with a peer partner or partners, students prepare and teach two weekly 30-minute lessons. Students are required to attend weekly seminar in which the mentor professor supervises and critiques the design and implementation of curriculum and assists students with teaching methods.

History

(for Geography-See "Science, General") (For Geology-See "Science, General")
 (For Graphic Design and Illustration-See "Art") (For Health Education-See "Physical Education/Athletics")

Program Description

This program emphasizes the development of various societies through a chronological study of the major social, political, economic, and cultural forces which have shaped these societies. Students in this program may study a variety of historical fields including United States, World, Western Civilization, Native-American, Philippine, African-American, Mexican and Mexican-American, California and Women's History.

Associate in Art Degree

The Associate in Arts Degree can be obtained upon completion of a total of 60 units, including the 18-unit major, general education requirements and electives. All courses in the major must be completed with a grade of C or better or a P if the course is taken on a pass-no pass basis.

Program Outcomes

Students who complete an Associate Degree will be able to:

1. Recognize and define a variety of major economic, social, cultural and political events and trends in history.
2. Analyze the significant causal factors that contributed to the shaping of a variety of historical movements, events and trends.
3. Interrogate and analyze primary historical evidence, including textual documents, artifacts and visual images.

Required Courses	Units
HIST 002 World History to 1750.	3
<i>or</i>	
HIST 004 History of Western Civilization to 1500	3
HIST 003 Modern World History	3
<i>or</i>	
HIST 005 History of Western Civilization Since 1500	3
HIST 017 History of the United States to 1865	3
<i>and</i>	
HIST 018 History of the United States from 1865	3
Select six units from the electives below.	6
Total Units	18

Electives selected from the following categories .. Units

I. United States

HIST 010 California History	3
HIST 028 African American History to 1877	3
HIST 031 Mexican American/Chicano History	3
HIST 037 Women in American History	3
HIST 049 History Honors	1 – 3

II. World History	Units
HIST 002 World History to 1750	3
HIST 003 Modern World History	3
HIST 004 History of Western Civilization to 1500	3
HIST 005 History of Western Civilization Since 1500	3
HIST 030 History of Mexico	3
HIST 032 History of the Philippines	3
HIST 049 History Honors.	1 - 3

III. Ethnicity and Gender Studies Units

HIST 028 African American History to 1877	3
HIST 029 African American History Since 1865.	3
HIST 031 Mexican American/Chicano History.	3
HIST 032 History of the Philippines	3
HIST 037 Women in American History	3
HIST 049 History Honors	1 - 3

HIST 002 3.0 Units World History to 1750

Course Advisories: Eligibility for ENGL 001; SCC minimum math standard. An integrated, holistic study of world civilizations from their beginnings to the mid-18th century. Emphasis will be placed on a critical assessment of the cultural achievements, belief systems and economic, political and social structures of the major global civilizations. We will also study the interconnections which linked these cultures into an integrated world system during the early modern period. *Three hours lecture.*

HIST 003 3.0 Units Modern World History

Course Advisories: Eligibility for ENGL 001; SCC minimum math standard. An integrated, holistic study of modern global history since 1500. Emphasis will be placed on the emergence of an interconnected world system in the modern era and the impact of that system on societies and cultures around the globe. The ongoing tension between tradition and modernity'shaped by wars, revolutions, and economic transformations'forms the central theme of the course. *Three hours lecture.*

History

- HIST 004** 3.0 Units
History of Western Civilization to 1500
Course Advisory: Eligibility for ENGL 001. Survey of the history of western civilization from its beginning through the Renaissance. Emphasis will be on analyzing the major social, political, economic and cultural forces which have shaped European societies. *Three hours lecture.*
- HIST 005** 3.0 Units
History of Western Civilization Since 1500
Course Advisory: Eligibility for ENGL 001. Survey of the history of western civilization from 1500 to the present. Emphasis will be on analyzing the major social, political, economic and cultural forces which have shaped modern European history. *Three hours lecture.*
- HIST 010** 3.0 Units
California History
Course Advisory: Eligibility for ENGL 001. Survey of California history from the pre-colonial, Native American period to the modern state. Particular emphasis will be placed on the interplay of geographic, economic, political, social and cultural forces that shaped both the development of this diverse state and the experiences of a wide range of peoples who have inhabited it. *Three hours lecture.*
- HIST 017** 3.0 Units
History of the United States to 1865
Course Advisory: Eligibility for ENGL 001. Survey of the U.S. from the pre-colonial period through Reconstruction. This course will stress the development of the economic, social, political and cultural conditions that shaped the movements, events, and trends of this period of U.S. history. Special attention will be paid to analyzing cause-effect and comparative relationships among major historical developments. *Three hours lecture.*
- HIST 018** 3.0 Units
History of the United States from 1865
Course Advisory: Eligibility for ENGL 001. A survey of the history of the U.S. from Reconstruction to the present. This course will stress the development of the economic, social, political and cultural conditions that shaped the movements, events, and trends of this period in U.S. history. Special attention will be paid to analyzing cause-effect and comparative relationships among major historical developments. *Three hours lecture.*
- HIST 028** 3.0 Units
African American History to 1877
Course Advisory: Eligibility for ENGL 001. A survey of the culture and experience, major events, and movements in the history of African Americans from African origins through 1877. Group development of political strategies to end slavery, gain citizenship, and combat racism, as well as individual contributions of African American leaders and intellectuals are emphasized. *Three hours lecture.*
- HIST 029** 3.0 Units
African American History Since 1865
Course Advisory: Eligibility for ENGL 001. Examines particular major events, personalities and movements that have played an important part in the history of African Americans from the Reconstruction Period up to the present. *Three hours lecture.*
- HIST 030** 3.0 Units
History of Mexico
Course Advisories: ENGL 370; SCC minimum math standard. A survey of Mexican history from the pre-colonial period to the present. This course will emphasize the varied economic, social, cultural, and political conditions and events that have combined to shape modern Mexico. Analysis of cause-effect and comparative relationships among major historical developments will be given special emphasis. Student success will be determined on completion of significant amounts of reading, writing, and critical analysis. *Three hours lecture.*
- HIST 031** 3.0 Units
Mexican American/Chicano History
Course Advisories: Eligibility for ENGL 001; SCC minimum math standard. A survey of Mexican American/Chicano history from the pre-Columbian era of Mexico to the present. Course will emphasize the economic, social, cultural, and political conditions and events that have shaped the history of Mexican Americans/Chicanos. Analysis of cause-effect and comparative relationships among major historical developments will be given special emphasis. Student success to be determined upon completion of significant amounts of reading, writing, and critical analysis. *Three hours lecture.*
- HIST 032** 3.0 Units
History of the Philippines
Course Advisory: Eligibility for ENGL 001. A historical survey of the Philippines with emphasis on the political, social, economic, legal and cultural developments. Major topics will focus on the anthropological, Asian, Spanish, Japanese and American influences, as well as independence movement, and political periods to the present. Students will be evaluated on their historical comprehension, critical and analytical written work. *Three hours lecture.*
- HIST 037** 3.0 Units
Women in American History
Course Advisory: Eligibility for ENGL 001. A multi-cultural survey of American history from pre-colonial times to the present examining the impact of ethnic and cultural diversity, class, and gender on the lives of women. *Three hours lecture.*

History

HIST 049

History Honors

Prerequisites: Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 6 units in the discipline with a grade of 'B' or better; an ability to work independently; permission of the Division Dean based on instructor availability. An independent study project which results in a critical examination of history. May be repeated to a maximum of 6 units, including initial enrollment. Three to nine hours weekly by arrangement with instructor and Division Dean.

1.0 to 3.0 Units

HIST Special Topics

These courses, numbered 048, 098, or 148 depending upon their transferability, are courses of contemporary interest centered on changing knowledge and important issues in the field. Announcements of Special Topics courses appear in the Schedule of Classes.

Horticulture and Plant Science

Program Description

This program is designed to provide theory and practical experience needed to enter the horticulture field or prepare for advancement or certification. It also offers some of the basic courses required of horticulture majors transferring to four-year institutions. This program offers certificates and degrees in six Ornamental Horticulture areas.

Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement can be obtained by completing all courses in the major with a grade of C or better or a P if the course is taken on a pass-no pass basis. The Associate in Science Degree can be obtained by completing a total of 60 units, including the required courses in the major, the general education requirements, and electives. All courses for this major must be completed with a grade of C or better or a P if the course is taken on a pass-no pass basis.

Program Outcomes

Students who complete the Certificate of Achievement/Associate Degree will be able to:

1. Design a landscape.
2. Lay out a landscape.
3. Estimate the cost of a landscape..

Required Courses Units

HORT 006 Identification and Ecology of Landscape Plant Materials	4
HORT 030 Landscape Design I	3
HORT 050 Introduction to Horticulture	3
HORT 055 Soils and Fertilizers	3
HORT 056 Landscape Pest Control and Management . . .	4
HORT 070 Landscape Construction and Estimation. . . .	3
HORT 071 Irrigation Principles	3
Total Units	23

Landscape Worker Job-Direct Certificate

The required courses must be completed with a grade of "C" or better.

Required Courses Units

HORT 006 Identification and Ecology of Landscape Plant Materials	4
HORT 050 Introduction to Horticulture	3
HORT 071 Irrigation Principles	3
Total Units	10

*Students will be required to complete 80 hours of cooperative supervised work experience to receive credit.

HORT 006 4.0 Units Identification and Ecology of Landscape Plant Materials

Course Advisories: HORT 050 recommended and SCC minimum English and math standards. Study of the identification, growth habits, cultural requirements, and evaluation of landscape plant materials used for ornamental purposes in Western landscapes. Laboratory experience will emphasize the identification and use of the plant materials in various landscape settings. A collection will be required. Repeatable 1 time. *Three hours lecture, three hours lab.*

HORT 030 3.0 Units Landscape Design I

Prerequisites: A grade of "C" or better in HORT 006. Course Advisories: HORT 050; SCC minimum English and math standards. Introduction to the skills and techniques of landscape design principles and practices. Laboratories will stress drafting techniques through design projects. Field trips required. *Two hours lecture, three hours lab.*

Horticulture and Plant Science

HORT 031 Landscape Design II <i>Prerequisites: A grade of "C" or better in HORT 030. Course Advisories: HORT 050; SCC minimum English and math standards.</i> Presents the association of plant materials according to design principles and their environmental requirements with attention to groupings, arrangements and planting about buildings and other landscape structures. Landscape drafting will be stressed in the laboratory projects culminating in a term design project. Mandatory field trips. <i>Two hours lecture, three hours lab.</i>	3.0 Units	HORT 071 Irrigation Principles <i>Course Advisories: SCC minimum English and math standards; HORT 055.</i> Study of the principles and management of water development and use in agricultural and horticultural production with special emphasis on water supplies, measurement, movement through soils, application methods, amounts needed and problems of distribution. The field laboratories will develop management techniques through exercises and field trip observations. <i>Two hours lecture, three hours lab.</i>	3.0 Units
HORT 050 Introduction to Ornamental Horticulture <i>Course Advisories: SCC minimum English and math standards.</i> Introduction and preview of the nursery, florist, and landscaping industries including elemental landscape design, flower arranging, plant identification, plant propagation, landscape tools, turf care, pest control, soil testing and basic botany. Laboratory experience will develop beginning techniques in propagation, soil testing, and turf and shrub maintenance. Mandatory field trips will be taken to various phases of the industry. <i>Two hours lecture, three hours lab.</i>	3.0 Units	HORT 301A Adaptive Horticulture - Basic Skills and Practices <i>Course Advisory: This course is for students with learning difficulties.</i> A horticulture and vocational training class adapted for students with special learning needs. Students will learn basic horticulture skills in a garden, nursery, and landscape setting. Safety training will be incorporated throughout the course. Students will receive a letter grade for this course. There will be 1 or more field trips for this course. Repeatable 2 times. <i>Two hours lecture, four hours lab and four hours activities</i> (8 week course).	2.0 Units
HORT 055 Soil and Fertilizers <i>Course Advisories: SCC minimum English and math standards.</i> Study of the relationships of soils and fertilizers to proper plant growth and emphasizes analysis of soils and fertilizers. Field laboratories will develop management techniques in testing and application through exercises and field trip observations. <i>Two hours lecture, three hours lab.</i>	3.0 Units	HORT 301B Adaptive Greenhouse Management <i>Course Advisory: This course is primarily for students with special learning needs.</i> This is a greenhouse skills vocational training course adapted for but not limited to students with intellectual and/or physical disabilities. Students will learn greenhouse management skills for employment preparation. Repeatable 2 times. <i>Two hours lecture, four hours lab and four hours activities</i> (8 week course).	2.0 Units
HORT 056 Landscape Pest Control and Management <i>Course Advisories: SCC minimum English and math standards.</i> Study of horticultural pests, insects, weeds, diseases and other non-pathogenic causes common to the Solano County area emphasizing identification, cultural, rotational, natural and chemical control methods. Mandatory field trips and laboratory experiences will provide experiences in detection, identification and techniques necessary to manage and control various species of plant pests. A collection is required. Repeatable 1 time. <i>Three hours lecture, three hours lab.</i>	4.0 Units	HORT 301C Adaptive Nursery Management <i>Course Advisory: This course is primarily for students with disabilities.</i> This is a nursery and landscape skills vocational training course adapted for but not limited to students with intellectual and/or physical disabilities. Students will learn nursery and landscape management skills for employment preparation. Students will be given a letter grade for this course. Repeatable 2 times. <i>Two hours lecture, four hours lab, four hours activity</i> (8 week course).	2.0 Units
HORT 070 Landscape Construction and Estimation <i>Course Advisories: SCC minimum English and math standards; HORT 050.</i> Study of the construction of patios, decks, walks, retaining walls, raised planters, mowstrips, fences, overhead structures, masonry work, sprinkler layout and other landscape features with emphasis on building code specifications. Previews contractor's licensing. Site development and construction skills will be developed during the laboratory. <i>Two hours lecture, three hours lab.</i>	3.0 Units	HORT 301D Adaptive Vegetable and Orchard Management <i>Course Advisory: This course is primarily for students with disabilities.</i> This is a vegetable and orchard skills vocational training course adapted for but not limited to students with intellectual and/or physical disabilities. Students will learn vegetable and orchard management skills for employment preparation. Students will receive a letter grade for this course. There are one or more field trips required for this course. Repeatable 2 times. <i>Two hours lecture, four hours lab, four hours activity</i> (8 week course).	2.0 Units

Horticulture and Plant Science

HORT 301E

2.0 Units

Adaptive Plant Propagation

Course Advisory: This course is primarily for students with disabilities. This is a plant propagation skills vocational training course adapted but not limited to students with intellectual and/or physical disabilities. Students will learn propagation management skills for employment preparation. Students will receive a letter grade for this course. There will be one or more field trips required for this course. Repeatable 2 times. *Two hours lecture, four hours lab, four hours activity* (8 week course).

HORT Special Topics

These courses, numbered 098 or 148 depending upon their transferability, are courses of contemporary interest centered on changing knowledge and important issues in the field. Announcements of Special Topics courses appear in the Schedule of Classes.

Human Development

Human Development

HUDV 038 3.0 Units Child Development

Course Advisory: Eligibility for ENGL 001. A study of the developing human being from conception through the formative years with emphasis on the close interaction between heredity and the physical, cognitive and psycho-social environment. Observations are included. Field trip may be required. *Three hours lecture.*

HUDV 039 3.0 Units School Years and Adolescent Development

Course Advisories: SCC minimum English standard; PSYC 001 or HUDV 038. Development and maturation of the school-age child and the adolescent; the interrelationship of physical, mental, social, and emotional events will be discussed along with a survey of community resources. *Three hours lecture.*

HUDV 040 3.0 Units Family Relationships

Course Advisory: SCC minimum English standard. A study of sociological and psychological factors influencing relationships, particularly dating, family, and marital relationships, as well as alternative lifestyles in contemporary society, including factors that affect communication and interpersonal interactions within relationships. *Three hours lecture.*

HUDV 050 3.0 Units Child, Family, Community

Course Advisory: Completion of ENGL 001. A study of the relationship between the child, his/her family, and his/her community. The course includes an analysis of the major theories of personality and social development. Special emphasis is given to resources in the local community that are available to children and families. *Three hours lecture.*

HUDV 053 3.0 Units Teaching in a Diverse Society

Course Advisories: Eligibility for ENGL 001 and SCC minimum Math standards. This course will help students learn to recognize and confront barriers that interfere with their ability to deal effectively with people who differ from themselves while examining the societal systems through which children grow and develop. Various anti-bias classroom strategies will be explored. Course includes self reflection on issues related to social identity, stereotypes, and bias. *Three hours lecture.*

HUDV 070 3.0 Units Lifespan Human Development

Course Advisory: Eligibility for ENGL 001. Note: Not open for credit to students who have successfully completed HUDV 038/039. A survey of human development throughout the life cycle, including physical, social, intellectual, and emotional development from conception to death. Includes direct observation. *Three hours lecture.*

HUDV 075 .5 to 3.0 Units Children with Special Needs

Prerequisite: HUDV 038. Course Advisory: Eligibility for ENGL 001. An introductory study of children with special needs, including causes of disabilities, their incidence, care, management, and general remedial procedures. Emphasis is on the child within the home and community settings. One-half to *Three hours lecture.*

HUDV Special Topics

These courses, numbered 048, 098, or 148 depending upon their transferability, are courses of contemporary interest centered on changing knowledge and important issues in the field. Announcements of Special Topics courses appear in the Schedule of Classes.

Human Services

Program Description

This program is designed to equip students with the basic knowledge and skills necessary for the variety of jobs in the field of Human Services. These courses are intended to provide entry-level skills and training for students who are interested in employment in mental health, social welfare, developmental services, corrections, alcohol and drug treatment, or child/adolescent treatment services.

Certificate of Achievement and Associate of Arts Degree

A Certificate of Achievement can be obtained upon completion of the 23-unit major with a grade of "C" (2.0) or better in each course. The Associate of Arts Degree can be obtained upon completion of 60 units, including the major with a grade of "C" (2.0) or better in each course, general education requirements, and electives. All courses in the major must be completed with a grade of C or better or a P if the course is taken on a pass-no pass basis.

Program Outcomes

Students who complete the Certificate of Achievement/Associate Degree will be able to:

1. Development of basic knowledge within the field of Human Services.
2. Development of cultural competency, group facilitation, and case management skills.
3. Application of Human Services knowledge and skills.

Required Courses	Units
HS 051 Introduction to Human Services	3
COUN 062 Helping Skills: Creating Alliances & Facilitating Change	3
COUN 064A Practicum I	4
COUN 064B Practicum II	4
HS 052 Introduction to Group Processes	3
HS 053 Serving Special Populations	3
HS 055 Introduction to Case Management	3
Total Units	23

Recommended Electives

COUN 055 Valuing Diversity
CJ 001 Introduction to Criminal Justice
CJ 011 Community Relations
CJ 058 Fundamentals of Crime and Delinquency
ECE 062 Introduction to Early Childhood Education
HUDV 038 Child Development
HUDV 039 School Years and Adolescent Development
HUDV 070 Lifespan Human Development
HUDV 075 Children with Special Needs
PSYC 001 Introduction to Psychology
PSYC 002 Biological Psychology
PSYC 005 Abnormal Psychology
PSYC 010 Psychology of Woman
PSYC 020 Personal and Social Behavior
PSYC 034 Human Sexual Behavior
PSYC 040 Drugs, Society & Behavior
PSYC 065 Introduction to the Psychology of Aging
OCED 090 Occupational Work Experience
SOCS 022 Ethnic, Racial and Minority Group Relations in Harmony and Conflict
SOCS 023 The African-American Family
SOCS 025 Mexican-American Experience
SOCS 026 Filipino-American Experience
SOCS 027 Native American Experience
SOC 001 Introduction to Sociology
SOC 002 Social Issues and Problems
SOC 040 Sociology of the Family

Human Services

HS 051 **3.0 Units**

Introduction to Human Services

Course Advisories: Eligibility for ENGL 001 and SCC minimum math standard. Provided is an overview of the history and purpose of human services. Students will familiarize themselves with skills needed to provide optimum services to diverse consumer populations in areas such as social welfare, mental health, substance use, rehabilitation, and child, adult and elder care. Political and economic aspects inclusive of roles and functions of local human services agencies systems will be examined. *Three hours lecture.*

HS 052 **3.0 Units**

Introduction to Group Processes

Course Advisories: COUN 062; eligibility for ENGL 001; SCC minimum math standard. An introduction to the theory and dynamics of group interaction including psychoeducational, support, and therapeutic context. The various stages and process of group development are studied using both a conceptual and experiential approach. This course is intended to assist persons who will function as leaders in a variety of small group situations. *Three hours lecture.*

HS 053 **3.0 Units**

Serving Special Populations

Course Advisories: Eligibility for ENGL 001 and SCC minimum math standard. The study of the values, problems, issues, concerns and counseling needs of special population groups including, but not limited to age, gender, ethnicity, socioeconomic status, physical or psychiatric disability, sexual orientation, and chemical dependency characteristics. The course provides students with the insight, knowledge and skills necessary to work with diverse populations in human services settings. *Three hours lecture.*

HS 055 **3.0 Units**

Introduction To Case Management

Prerequisite: COUN 062. Course Advisories: Eligibility for ENGL 001 and SCC minimum math standard. An introductory course which acquaints students to the basic concepts and skills of case management. This course provides an introduction to the history and purpose of case management, case management concepts, legal and ethical considerations of case management, service planning and delivery, careers in case management and other topics. *Three hours lecture.*

HS Special Topics

These courses, numbered 048, 098, or 148 depending upon their transferability, are courses of contemporary interest centered on changing knowledge and important issues in the field. Announcements of Special Topics courses appear in the Schedule of Classes.

Industrial Education

Industrial Management, Safety

Program Description

This program is designed to train men and women for management positions in government and industry. The program was developed in cooperation with representatives of the leading industries of Solano County and surrounding areas, and is approved by the Bureau of Industrial Education. The Industrial Safety specialization is designed for the person in a supervisory capacity or the person aspiring to become a safety manager/technician with related experience and basic knowledge of industrial health and hygiene.

Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement can be obtained upon completion of the 21-unit major with a grade of "C" (2.0) or better in each course. The Associate in Science Degree can be obtained by completing a total of 60 units, including major, the general education requirements, and electives. All courses in the major must be completed with a grade of C or better or a P if the course is taken on a pass-no pass basis.

Program Outcomes

This information is not available at the time of printing. Please check online for current information as it is available.

Required Courses Units

CIS 001 Introduction to Computer Science	3
IMGT 172 Industrial Safety	3
IMGT 182 Organization and Administration of Safety Programs	3
IMGT 183 Introduction to Industrial Hygiene	3
MGMT 050 Principles of Management	3
MGMT 191 Human Relations	3
Elective selected from list of Recommended Electives ..	3
Total Units	21

Recommended Electives:

ACCT 001 Principles of Accounting - Financial
FIRE 050 Principles of Emergency Services
FIRE 112 Hazardous Materials I
MGMT 191 Human Relations
OCED 090 Occupational Work Experience
OCED 091 General Work Experience

Industrial Education

Maintenance Technician

Program Description

This program is designed for the person seeking employment or upgrade of skills in the field of plant equipment/facility maintenance and repair.

Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement can be obtained upon completion of the 29-unit major below. The Associate in Science Degree can be obtained by completing a total of 60 units including the major, the general education requirements, and electives. All courses in the major must be completed with a grade of C or better or a P if the course is taken on a pass-no pass basis.

Program Outcomes

Students who complete the Certificate of Achievement/Associate Degree will be able to:

1. Calculate direct current (DC) circuit loads.
2. Calculate alternating current (AC) circuit loads.
3. Demonstrate how to set-up and maintain a safe working environment.
4. Utilize a working knowledge of electrical fundamentals, precision tools, and techniques to perform identified tasks.
5. Plan and execute technical applications for the set-up and operation of electrical/electronic equipment.
6. Communicate their ideas and results using their knowledge of written, oral, and graphical communication.

Required Courses	Units
ACR 100 Air Conditioning and Refrigeration	3
<i>or</i>	
ACR 101 Air Conditioning and Refrigeration	3
DRFT 079 Blueprint Reading	3
IT 110 Modern Welding	3
IT 140 Industrial Materials	3
IT 151 Vocational Mathematics	3
IT 160 Electrical Fundamentals	3
IT 170 Hydraulics and Pneumatics	3
MT 160 Introduction to Manufacturing Technology	3
MT 161 Advanced Manufacturing Technology	3
MT 162 Robotic Manufacturing Systems	3
Total Units	29

Recommended Electives:

DRFT 050 Basic Drafting
DRFT 075 Electronic Drafting
ECTN 102 Electrical Safety
FIRE 112 Hazardous Materials I
OCED 090 Occupational Work Experience
OCED 091 General Work Experience

Industrial Education

Mechatronics A.S. Degree

Program Description

Mechatronics is the blending of electronics, mechanics, electrical, and computers to produce a well-rounded technician capable of handling the complex maintenance and operations tasks demanded by modern manufacturing, transportation, communication, and other industries. The modularization of electro-mechanical devices no longer requires in-depth specialization of a single field of study as more emphasis is placed on troubleshooting and replacement skills for maintenance and generalized knowledge of how systems work together for operations and purchasing and planning.

Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement can be obtained upon completion of the 36 unit major listed below. The Associate in Science Degree can be obtained by completing a total of 60 units, including the 36 unit major, the general education requirements, and electives. All courses in the major must be completed with a grade of "C" or better or a "P" if the course is taken on a pass-no pass basis.

Program Outcomes

Students who complete the Certificate of Achievement/Associate Degree will be able to:

1. Safely operate a variety of testing instruments and diagnostic tools.
2. Recognize complex systems and understand their function, operation, advantages and disadvantages.
3. Analyze complex systems and diagnose/troubleshoot problems.

Required Courses	Units
CIS 001 Introduction to Computer Science	3
IT 101 How Things Work	3
IT 151 Vocational Mathematics	3
MT 120 Principles of Analog Electronics	3
MT 122 Principles of Digital Electronics	3
MT 130 Principles of Mechanical Power Systems	3
MT 132 Principles of Fluid Power Systems	3
MT 140 Principles of Industrial Electrical Systems	3
MT 148 Electric Machinery	3
MT 162 Robotic Manufacturing Systems	3
Electives Selected from List A	6
Total Units	36

Electives-List A	Units
ACR 100 Air Conditioning and Refrigeration	3
<i>or</i>	
ACR 101 Air Conditioning and Refrigeration	3
DRFT 079 Blueprint Reading	3
DRFT 045 Introduction to Computer-Aided Drafting (CAD)	3
ECTN 102 Electrical Safety	1 - 3
IT 110 Modern Welding	3
IT 140 Industrial Materials	3
OCED 090 Occupational Work Experience	1 - 8

Industrial Education

Manufacturing Technology Job-Direct Certificate

The required courses must be completed with a grade of "C" or better.

Required Courses	Units
BUS 100 Work Readiness	1.5
MT 160 Introduction to Manufacturing Technology	3
MT 161 Advanced Manufacturing Technology	3
OCED 090 Occupational Work Experience.	2
Total Units	9.5

Air Conditioning and Refrigeration

ACR 100 3.0 Units Air Conditioning and Refrigeration

Course Advisory: SCC minimum English standard. A study of compression systems, controls, refrigerants, various refrigeration systems, and commercial applications designed to develop the ability to understand and apply the basic principles required to maintain and service this type of specialized equipment. *Three hours lecture.*

ACR 101 3.0 Units Air Conditioning and Refrigeration

Course Advisories: ACR 100; SCC minimum English standard. The maintenance and servicing of commercial air conditioning and refrigeration systems with the study of techniques applied to refrigerant handling, systems controls, and compression systems. *Three hours lecture.*

Industrial Education

IMGT 172 3.0 Units Industrial Safety

Course Advisory: SCC minimum English standard. Comprehensive study and analysis of safety principles applied to the workplace. *Three hours lecture.*

IMGT 182 3.0 Units Organization and Administration of Safety Programs

Course Advisory: SCC minimum English standard. Comprehensive review of OSHA requirements and standards pertinent to all workplaces. This course will provide a comprehensive study and analysis of current practices and trends in the organization and administration of safety programs. *Three hours lecture.*

IMGT 183 3.0 Units Introduction to Industrial Hygiene

Course Advisory: SCC minimum English standard. Comprehensive study and analysis of the interrelationship between industrial hygiene and the safety professional. The course examines and contrasts the scope and responsibilities of the industrial hygienist and the safety professional on the occupational health team. *Three hours lecture.*

IMGT 186 3.0 Units

Course Advisory: SCC minimum English standard. Presentation of the principles and functions of accident investigation to meet the requirements and standards of Occupational Safety and Health Administration (OSHA), state, county, city, and insurance regulations. *Three hours lecture.*

IT 050 3.0 Units

Alternative Energy Technologies

Course Advisory: SCC minimum English and math standards. Introduces the topics of power generation, transmission, and consumption of both conventional and alternative energy sources. Students will be exposed to an in-depth analysis of the design and use of fossil fuel based systems and then compare those systems to alternatives. Energy use in transportation, industrial, commercial, and residential applications will be examined. *Three hour lecture.*

IT 101 3.0 Units

How Things Work

Course Advisory: SCC minimum English and math standards. Provides an understanding of how the technology in our lives works using only basic concepts and rudimentary mathematics. This course considers objects from our daily environment and focuses on their principles of operation, histories, and relationships to one another. Students learn about common technologies through lecture, classroom discussion, and laboratory experiments. *Two hours lecture, three hours lab.*

IT 110 3.0 Units

Modern Welding

Course Advisory: SCC minimum English standard. Designed to acquaint the student with the fields of arc and acetylene welding, the tools and equipment used, shop safety and employment opportunities. *Two hours lecture, three hours lab.*

IT 111 3.0 Units

Modern Welding

Prerequisite: IT 110. Designed to acquaint the student with MIG and TIG welding methods and knowledge necessary to weld in all positions utilizing the mild steel, low hydrogen electrodes, metal inert gas and tungsten inert gas techniques. *Two hours lecture, three hours lab.*

Industrial Education

IT 140 3.0 Units

Industrial Material

Course Advisory: SCC minimum English standard. A broad overview of the characteristics and comparative qualities of naturally occurring, alloyed and man-made materials used in industry. Testing and practical use of materials are required. *Two hours lecture, three hours lab.*

IT 150 3.0 Units

Industrial Process

Course Advisory: SCC minimum English standard. Presents the physical, chemical and mathematical processes related to the acquisition, refining, manipulation of man-made and naturally occurring materials used by such areas as auto mechanics, auto body, machine tool and welding. *Two hours lecture, three hours lab.*

IT 151 3.0 Units

Vocational Mathematics

Course Advisories: SCC minimum English and math standards. Focuses on mathematical functions, plane and solid geometry, measurement systems, algebra, and trigonometry applied to specific vocational areas. *Three hours lecture.*

IT 160 3.0 Units

Electrical Fundamentals

Course Advisory: SCC minimum English standard. Presents the principles of DC and AC circuits and introduces residential electrical installations that meet National Electrical Code requirements. Students will complete labs and wiring projects. Lab and electrical safety is emphasized. *Two hours lecture, three hours lab.*

IT 170 3.0 Units

Hydraulics & Pneumatics

Course Advisory: SCC minimum English standard. Study of the application of hydraulic and pneumatic fundamentals pertaining to industrial systems. Includes industrial pumps, actuators, accumulators, filters, meters, valves, and control devices with emphasis on theory, operation and troubleshooting. *Two hours lecture, three hours lab.*

IT 180 3.0 Units

Auto Maintenance

Course Advisory: SCC minimum English standard. Designed to provide an understanding of all phases of auto maintenance, design principles and laboratory practices. Especially useful for those considering further training for purposes of employment. Testing, practical demonstrations and laboratory exercises are required. Repeatable 2 times. *Two hours lecture, three hours lab.*

IT 190 2.0 Units

Metrics

Course Advisory: MATH 304. Presents the fundamentals of the metric system. Includes the history and development of the metric system, as well as how it works in industry. Includes scientific notation, dimensional analysis, and everyday practical uses. *Two hours lecture.*

IT Special Topics

These courses, numbered 048, 098, or 148 depending upon their transferability, are courses of contemporary interest centered on changing knowledge and important issues in the field. Announcements of Special Topics courses appear in the Schedule of Classes.

Maintenance Technician

MT 110 1.0 Unit

Robotics Manufacturing Lab

Corequisite: CIS 112. Course Advisory: SCC minimum English and math standards. Lab to accompany CIS 112—Introduction to Robotics Programming. Presents the student with hands-on experience programming and operating a 350 degree, 5-axis articulating robotic system. Laboratory and industrial safety standard will be emphasized. *Three hours lab.*

MT 120 3.0 Units

Principles of Analog Electronics

Course Advisory: SCC minimum English and math standards. Introduces the topic of analog electronics as it applies to mechatronics. Studies include an introduction to DC and AC circuitry as well as advanced electronic components, instruments used in the operation, installation, and troubleshooting of electronic systems, schematic diagrams, and breadboarding. Students will construct several kits as part of the class. *Two hours lecture, three hours lab.*

MT 122 3.0 Units

Principles of Digital Electronics

Course Advisory: SCC minimum English and math standards. Introduces the topic of digital electronics as it applies to mechatronics. Studies include an introduction to digital numbering systems, digital codes and logic, registers, memories, Boolean Algebra, and integrated circuits as well as advanced topics in computerized control systems. Students will construct several kits as part of the class. *Two hours lecture, three hours lab.*

MT 130 3.0 Units

Principles of Mechanical Power Systems

Course Advisory: SCC minimum English and math standards. Introduces the topic of mechanical power systems and mechanical power transmission as it applies to mechatronics. Studies include mechanical theory, mechanical power, thermal systems, hand tools, precision measuring instruments, and mathematics applied to mechanical power systems. Includes studies in manufacturing technology using modern manufacturing equipment and software simulators. *Two hours lecture, three hours lab.*

Industrial Education

- MT 132** 3.0 Units
Principles of Fluid Power Systems
Course Advisory: SCC minimum English and math standards. Introduces the topic of hydraulic and pneumatic systems as they apply to mechatronics. Studies include fluid power systems theory, pumps, actuators, accumulators, filters, meters, valves, control devices, and mathematics applied to fluid power systems. Includes studies in manufacturing technology using modern manufacturing equipment and software simulators. *Two hours lecture, three hours lab.*
- MT 140** 3.0 Units
Principles of Industrial Electrical Systems
Course Advisory: SCC minimum English and math standards. Introduces the topic of DC, single-phase and three-phase AC circuits as they apply to mechatronics. Introduces commercial/industrial electrical installations that meet National Electrical Code requirements. Students will complete labs and wiring projects. Lab, electrical and worksite safety is emphasized. *Two hours lecture, three hours lab.*
- MT 142** 3.0 Units
Principles of Electrical Machinery
Prerequisite(s): MT 140 with a grade of "C" or better or IT 160 with a grade of "C" or better. Course Advisory: SCC minimum English and math standards. Introduces the topic of electrical machinery as it applies to mechatronics. Studies include direct-current and alternating-current generators, alternators, transmission equipment, and motors. Students will complete labs and electrical machinery projects. Lab, electrical and worksite safety is emphasized. Two hours lecture and 3 hours activities.
- MT 160** 3.0 Units
Introduction to Manufacturing Technology
Course Advisories: SCC minimum English and math standards. Presentation of the principles of manufacturing technology in safety habits, blueprint reading, precision measuring instruments, principles of applied mathematics and physics involved in mechanical, fluid and thermal systems. Students will develop solutions to manufacturing problems and apply safety oriented work habits to the completion of laboratory projects while working individually and in groups. *Two hours lecture, three hours lab.*
- MT 161** 3.0 Units
Advanced Manufacturing Technology
Prerequisite: MT 160. Course Advisories: SCC minimum English and math standards. Presentation of the advanced principles in safety habits, applied mathematics and physics involved in mechanical, fluid, thermal and electrical system. Students will develop solutions to manufacturing problems and apply safety oriented work habits to the completion of laboratory projects while working individually and in groups. *Two hours lecture, three hours lab.*
- MT 162** 3.0 Units
Robotic Manufacturing Systems
Course Advisories: SCC minimum English and math standards. Presentation of physical principles applied to automated manufacturing systems. Students will develop solutions to manufacturing problems using robots, programmable logic controllers (PLC) and computer numerical control (CNC) manufacturing machines. Students will also apply safety-oriented work habits to the completion of laboratory projects while working individually and in groups. *Two hours lecture, three hours lab.*
- MT 164** 3.0 Units
Programmable Logic Controllers
Course Advisory: SCC minimum English and math standards. Introduces the student to process control via Programmable Logic Controllers (PLC's). Content includes the popular Allen-Bradley PLC systems and the most common command instructions for the RSLogix 5, RSLogix 500, RSLogix 5000, Micrologix 1000, SLC5 and SLC 500 as well as ControlLogix processors. Troubleshooting and electrical safety are emphasized. *Two hours lecture, three hours lab.*
- MT 201** 1.0 Unit
Introduction to the Wind Industry
Course Advisory: SCC minimum English and math standards. Introduces the prospective wind field technician to electrical generation, alternative energy sources, and the wind industry in particular. Students will learn about the opportunities and responsibilities of the wind field technician. Topics covered in subsequent courses in the program will be introduced. *One hour lecture.*
- MT 202** 1.0 Unit
OSHA Required Safety for the Wind Industry
Course Advisory: SCC minimum English and math standards. Prerequisites: MT 201 with a grade of "C" or better. Introduces the prospective wind field technician to the OSHA required safety topics for wind field technicians. Along with personal safety and injury prevention students are introduced to the aspects of proper tool and equipment use as well as the requirements for working in a safe environment. *One hour lecture.*
- MT 203** 1.0 Unit
CPR, First Aid, and Safety in the Wind Park
Course Advisory: SCC minimum English and math standards. Prerequisites: MT 201 with a grade of "C" or better. Introduces the prospective wind field technician to safety and emergency procedures required for wind technicians. Topics include CPR, first aid, tower rescue, and general safety practices in the wind park. *One hour lecture.*

Industrial Education

MT 204 1.0 Unit

Electrical Measuring Equipment for Wind Turbines

Course Advisory: SCC minimum English and math standards. Prerequisites: MT 201 with a grade of "C" or better. Introduces the prospective wind field technician to the tools and equipment used to measure electrical systems on a wind turbine. Students will be exposed to analog, digital, mechanical, and passive measuring equipment. The capabilities and limitations of various metering equipment will be presented with the safe use of tools and equipment being the primary focus. *One hour lecture.*

MT 205 1.0 Unit

Direct Current for Wind Turbines

Course Advisory: SCC minimum English and math standards. Prerequisites: MT 201 with a grade of "C" or better. An introduction to direct current electrical systems as used on wind turbines. The student is also introduced to schematic symbols and diagrams used to describe the wind turbine's electrical systems. *One hour lecture.*

MT 206 1.0 Unit

Alternating Current for Wind Turbines

Course Advisory: SCC minimum English and math standards. Prerequisites: MT 201 with a grade of "C" or better. An introduction to alternating current electrical systems as used on wind turbines. The student is introduced to transformers, converters, and inverters, single and three-phases electrical systems essential to the operation of wind turbines. *One hour lecture.*

MT 207 1.0 Unit

High Power Systems for Wind Turbines

Course Advisory: SCC minimum English and math standards. Prerequisites: MT 201 with a grade of "C" or better. An introduction to the safe handling of high power systems in the wind industry. Students are introduced to the safety procedures for working with high energy electrical and electrostatic discharge, compressed gasses, and hydraulics. *One hour lecture.*

MT 208 1.0 Unit

Electronics for Wind Turbines

Course Advisory: SCC minimum English and math standards. Prerequisites: MT 201 with a grade of "C" or better. Introduces the prospective wind field technician to electronics and fiber optics. Provides an introduction to analog, digital and semiconductor electronics, fiber optics technology, and soldering. *One hour lecture.*

MT 209 1.0 Unit

Electromechanical Systems for Wind Turbines

Course Advisory: SCC minimum English and math standards. Prerequisites: MT 201 with a grade of "C" or better. Introduces the prospective wind field technician to mechanical and electrical systems that make up the wind turbine. The preventative maintenance practices of moving and stationary parts and electrical systems are introduced. *One hour lecture.*

MT 210 1.0 Unit

PLC's and Transformers for Wind Turbines

Course Advisory: SCC minimum English and math standards. Prerequisites: MT 201 with a grade of "C" or better. Introduces the prospective wind field technician to programmable logic controllers, substations and transformers. *One hour lecture.*

MT 211 1.0 Unit

Wind Turbine Maintenance Practices

Course Advisory: SCC minimum English and math standards. Prerequisites: MT 201 with a grade of "C" or better. Introduces the prospective wind field technician to the maintenance practices particular to wind turbines. Topics also include troubleshooting techniques, documentation, and service reporting. *One hour lecture.*

MT 212 1.0 Unit

Wind Turbine Airfoils and Composites

Course Advisory: SCC minimum English and math standards. Prerequisites: MT 201 with a grade of "C" or better. Introduces the prospective wind field technician to airfoils. Students will learn how airfoils are used to capture wind energy and how to maintain rotors and airfoils on wind turbines. *One hour lecture.*

MT 213 1.0 Unit

Wind Turbine Operations

Course Advisory: SCC minimum English and math standards. Prerequisites: MT 201 with a grade of "C" or better. An introduction to the operations of wind turbines and the wind park. Students are exposed to Supervisory Control and Data Acquisition (SCADA) systems used to control wind turbines, meteorology, and graphs and charts used to predict wind turbine performance.

MT Special Topics

These courses, numbered 048, 098, or 148 depending upon their transferability, are courses of contemporary interest centered on changing knowledge and important issues in the field. Announcements of Special Topics courses appear in the Schedule of Classes.

Interdisciplinary Studies-Arts and Humanities

(For Learning Resources – See Liberal Arts) (For Learning Skills – See Counseling)

Program Description

This major is designed for students who are not certain of their specific academic major goals and do not have immediate transfer plans. It would enable them to earn the Associate Degree by completing general education and an 18-unit area of academic focus.

- I. All students will complete the Solano College Option A GE Pattern: Minimum 22 semester units.
- II. All students will complete an 18-unit Area of Emphasis from the selections below.
- III. Electives may be necessary to total 60 overall units required for the Associate degree.
- IV. All courses for this major must be completed with a grade of C or better or a P if the course is taken on a pass-no pass basis.

Program Outcomes

1. Students will discern the relationship between personal perspective and evidence-based evaluation of information.
2. Students will discover the nature and common themes of the disciplines represented by an academic area of emphasis.
3. Students will acquire a knowledge base that encourages lifelong learning in order for them to effectively adapt to a complex and changing society.

Areas of Emphasis

1. 18 units required from one Area of Emphasis listed below.
2. Courses selected cannot also be used to fulfill GE areas.
3. Courses numbered 1-49 transfer to UC, CSU and most independent and out-of-state colleges. Courses numbered 50-99 transfer to CSU and some independent and out-of-state colleges and universities. Courses numbered 100-199 are associate degree applicable but usually do not transfer to baccalaureate-granting institutions.

Arts and Humanities

Minimum 18 units required

Minimum six units from the Arts and six units from Humanities

Maximum three units of credit for studio/performance courses

Courses in this area are designed to cultivate intellect, imagination, sensibility and sensitivity. Students will study great works of the human imagination and will examine their own esthetic and creative experience. Awareness and appreciation of humanistic disciplines will be explored and encouraged. Students will be exposed to the study of human culture from a variety of perspectives.

Arts

ART 001, 002, 003, 010, 011, 012
ART Studio: 004, 006, 007, 008, 014, 016, 017, 019, 020, 021, 023, 026, 029, 031, 032, 034, 035, 037, 038, 039, 040, 041, 042, 043
CINA 010, 011
CINA Performance: 015
MUSC 001, 002, 005, 007, 008, 013
MUSC Studio: 006, 009, 010, 011, 014, 015, 016, 017, 018, 019, 020, 022, 023, 024, 025, 026, 027, 028, 031, 032, 033, 034, 035A, 035B, 037, 038, 039, 041A, 041B, 042A, 042B
PHOT Performance: 030
PHOT 035
THEA Performance: 001, 002
THEA 006, 010, 011, 013, 048A
TV 050
TV Performance: TV 055, 060

Humanities

AMST 001, 002
ENGL 002, 006, 007, 012, 013, 014, 016, 018, 021, 023, 024, 025, 030, 031, 032, 033, 034, 035, 036, 037, 038, 040, 041, 044, 046, 047
FREN 001, 002, 003, 004, 011, 012, 031, 032, 033, 034
GRMN 001, 002, 003, 004, 011, 012, 031, 032, 033, 034
ITAL 031, 032
HIST 002, 003, 004, 005, 010, 017, 018, 028, 029, 030, 031, 032, 037
LATN 001, 002, 003
PHIL 003, 004, 031, 032
SPAN 001, 002, 003, 004, 011, 012, 025, 031, 032, 033, 034

Interdisciplinary Studies-Arts and Humanities

Communication

Minimum 18 units required

Minimum three units from each of three different disciplines

These courses emphasize the content, understanding and production of verbal and written communication. Students will learn to evaluate and assess communication as a process of human symbolic interaction while developing skills in such areas as reasoning, organization, accuracy, reading and effective listening.

BUS 92

COUN 062

ENGL 002, 004, 006, 007, 058, 062, 064

FREN 001, 002, 003, 004, 031, 032, 033, 034

GRMN 001, 002, 003, 004, 031, 032, 033, 034

HS 052

ITAL 031, 032

JOUR 001, 002, 011, 060

LATN 001, 002, 003

PHIL 005

SPAN 001, 002, 003, 004, 025, 031, 032, 033, 034

SPCH 001, 002, 006, 008, 010, 012, 015, 060

Science and Quantitative Reasoning

Minimum 18 units required

Minimum six units from Science and six units from Quantitative Reasoning

Chemistry courses may not be used in both areas must choose one area.

This emphasis is intended to involve inquiry into the physical universe and its life form with consideration of facts and principles which form the foundations of living and non-living systems. Students will explore scientific methodologies as investigative tools, the acquisition and use of evidence, and the past and present influences of science on world civilizations. Understanding and analysis of basic mathematical and quantitative reasoning concepts will be explored. This area includes courses in areas such as computer science, math, and science.

Science

ANTH 001

ASTR 010, 020, 030, 040

BIO 001, 002, 004, 005, 012, 012L, 014, 015, 016, 018, 019

CHEM 001, 002, 003, 004, 010, 011, 051, 160

ENGR 017, 030, 045

GEOG 001, 001L

GEOL 001, 002, 005

HORT 050

NUTR 010

PHYS 002, 004, 006, 007, 008, 010

PHSC 012, 012L

PE 020.6, 020.7

PSYC 002

Quantitative Reasoning

CIS 001, 015, 020, 022, 023, 035, 050, 055, 057, 060, 073, 078

CHEM 001, 002, 010, 160

GEOG 10 (GEOL 10)

MATH 002, 004, 011, 012, 020, 021, 022, 023, 030, 031, 040,
051, 102, 103, 104, 112, 114

PSYC 004

Interdisciplinary Studies-Arts and Humanities

Social Science

Minimum 18 units required

Minimum three units from each of three different disciplines

This emphasis examines people and their interactions with each other, within their social and political institutions and as members of the larger society. Course work will explore behavior - sometimes the behavior of an individual, other times the behavior of a system, society, or culture. Topics and discussion will stimulate critical thinking about ways people have thought and acted in response to their upbringing, environment and society.

AMST 001, 002
ANTH 002, 007
COUN 055, 062, 083
CJ 001, 002, 011
ECON 001, 002, 010
GEOG 002, 004
HIST 002, 003, 004, 005, 010 017, 018, 028, 029, 030, 031, 037
HUDV 038, 039, 040, 050, 052, 053, 058, 070
HS 051, 052, 053
IR 001
JOUR 011
PLSC 001, 002, 003, 005, 016, 019
PSYC 001, 002, 004, 005, 010, 020, 024, 030, 034, 065
SOCS 022, 023, 025, 026, 027, 030, 051, 053
SOC 001, 002, 023, 030, 040, 051
SPCH 012

Wellness and Self Development

Minimum 18 units required

Minimum six units from Wellness and six units from Self Development

Maximum three units of credit for Physical Education activity and Athletics courses

This emphasis is designed to equip students with information and tools for lifelong wellness and self development as integrated beings. Students will be well acquainted with the vast landscape of wellness and self development, taking into account the psychological, biological, developmental, physical factors, and they will be able to make effective decisions about optimizing their own wellness, lifestyle, and performance.

Wellness

ATHL 001, 002A, 002B, 003, 004, 010, 015, 016A, 016B, 017, 020
BIO 004, 005, 016
HED 002, 003
NUTR 010, 012
PE 020A, 020H, 020S, 020V, 020W
PE Activity: 001A, 001D, 002A, 002B, 002C, 002D, 002E, 003A, 003C, 003D, 003E, 004A, 004B, 004C, 004D, 004E, 004F, 004H, 004J, 004k 004M 004N, 004P, 005A, 005B, 005C, 005G, 005J, 005K, 005M, 05N, 005P, 006A, 006B, 006C, 006E, 006F, 007A, 007C, 007D, 007E, 007F, 008A, 008B, 008C, 008F, 008G, 009A, 009B, 009C, 009E, 009F, 009G, 009H, 009P, 078

Self Development

COUN 007, 050, 055, 058, 060, 062, 063, 083, 098
HS 051, 052, 053
HUDV 038, 039, 040, 052, 053, 058, 070
LR 001, 010, 011, 051
PSYC 001, 005, 010, 020, 024, 030, 034, 040, 065
SOCS 051

Interior Design

(For Industrial Management-See "Industrial Education) For Industrial Technology-See "Industrial Education")

Program Description

This program is designed for vocational majors planning employment in interior design or interior merchandising occupations.

Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement can be obtained upon completion the 37-unit major. The Associate in Science Degree can be obtained upon completion of a total of 60 units, including the major, general education requirements, and electives. All courses in the major must be completed with a grade of C or better or a P if the course is taken on a pass-no pass basis.

Program Outcomes

Students who complete the Certificate of Achievement/Associate Degree will be able to:

1. Demonstrate proficiency at quick sketching and drafting/reading floor plans.
2. Demonstrate proficiency in application of design elements in residential/commercial environments.
3. Demonstrate an understanding of the relationship of textiles and furniture in residential/commercial environments.

Required Courses Units

INTD 050 Interior Design	3
INTD 051 Materials and Techniques	3
INTD 052 Drafting & Perspective Drawing for Interiors	3
<i>or</i>	
DRFT 050 Basic Drafting	3
INTD 053 History of Furniture I.	3
INTD 098A History of Furniture II	3
INTD 055 Advanced Interior design	3
INTD 061 Textiles for Interior Design	3
INTD 065 Kitchen and Bathroom Design	3
BUS 181 Business Mathematics	1
OCED 090 Occupational Work Experience.	3
ART 007 Design-Color.	3
ART 060 Exhibition Design.	3
Select three units from the courses below.	3
Total Units	37

Choose three units from the following:

DRFT 079 Blueprint Reading	3
SPCH 010 Interpersonal Communication.	3
BUS 005 Introduction to Business	3

INTD 050 **3.0 Units**
Interior Design
Course Advisory: SCC minimum English standard. Study of the basic principles and elements of design and their applications in furnishing residential interiors. Students design projects emphasize the functional and aesthetic use of space, color, furniture, accessories, and other resources. *Three hours lecture.*

INTD 051 **3.0 Units**
Materials and Techniques
Prerequisite: INTD 050. Course Advisory: Eligibility for ENGL 001. Provides the practical expertise needed by interior design, construction and installation of custom furnishings for residential and commercial projects. Course work includes design projects, research on new products and technology, field trips and innovative uses of existing resources. Field trip may be required. Repeatable 1 time. *Two hours lecture, two hours lab.*

INTD 052 **3.0 Units**
Drafting and Perspective Drawing for Interiors
Course Advisories: SCC minimum English and math standards. Basic graphic skills of interior design ideas, including one and two-point perspective drawing, drafting of floor plans, section detail and lettering. Student presentation of design project portfolio required. *Two hours lecture, three hours lab.*

INTD 053 **3.0 Units**
History of Furniture I
Course Advisory: SCC minimum English standard. Explore the history of furnishings and interiors from the ancient world to the neoclassical period. The course will cover the evolution of historical styles in ornament and materials including furniture, metalwork, ceramics and glass that form a basis of today's interiors. Stylistic and technical developments, as well as social and historical forces that have affected design will be discussed. *Three hours lecture.*

Interior Design

INTD 055

3.0 Units

Advanced Interior Design

Prerequisites: INTD 050, 051, 052, 053. SCC minimum English standard. Focuses on pre-professional training and career opportunities in interior design and home furnishing merchandising. Course work includes study of color dynamics, light and space planning, research on new materials and technology, and client-oriented design projects for residential and/or commercial interior environments. *Three hours lecture.*

INTD 061

3.0 Units

Textiles for Interior Design

Course Advisories: SCC minimum English and math standards. The study of basic textile technology including fibers, yarns, fabric construction and finishes. Course includes hands-on experience with a variety of textiles. Evaluation is based on written examinations, fabric swatch book, and written assignments. *Two and one-half hours lecture, one and one-half hours lab.*

INTD 065

3.0 Units

Kitchen and Bathroom Design

Prerequisite: INTD 050. Course Advisories: SCC minimum English and math standards. This course covers the design of efficient and aesthetic kitchens and baths including space considerations, equipment, appropriate materials, building codes, and human factors. *Three hours lecture.*

INTD 098A

3.0 Units

History of Furniture II

Course Advisory: SCC minimum English standard. This course examines European and American furniture design and architecture of the nineteenth and twentieth centuries in the context of historical developments such as the Industrial Revolution, mass production, the invention of new materials, and the impact of depression, war, and consumer culture. Art Nouveau, the Bauhaus, Purism, De Stijl, Russian Avant-Garde, Art Deco, American modern and Scandinavian design are among the areas covered. *Three hours lecture.*

International Relations

Program Description

The International Relations program provides an interdisciplinary, integrated approach to an understanding of modern global society and events, preparing the student for a variety of perspectives in a rapidly changing world. Students pursue global interests in language, history, culture, business, government, fine arts, literature, science, and other studies. Students in International Relations will prepare for transfer to universities offering International Relations majors or related fields. Course work will also broaden their perspective and skills to enter the business world. This is an interdisciplinary program so the descriptions for the individual courses can be found under the appropriate disciplines.

Associate in Arts Degree

The Associate in Arts Degree can be obtained by completing a total of 60 units, including the 28-unit major, general education requirements, and electives. All courses in the major must be completed with a grade of C or better or a P if the course is taken on a pass-no pass basis.

Program Outcomes

This information is not available at the time of printing. Please check online for current information as it is available.

Required Courses	Units
IR 001 Global Interdependence	3
ECON 001 Principles of Economics (Macroeconomics)	3
ECON 002 Principles of Economics (Microeconomics)	3
FOREIGN LANGUAGE (Choose from FREN, GRMN, or SPAN numbered 001-034) *	10
GEOG 004 World Geography	3
HIST 005 History of Western Civilization Since 1500	3
Select three units from the electives below	3
Total Units	28

Select three (3) units from the following:

ANTH 002 Cultural Anthropology	3
ART 001 Art History	3
ART 003 World Art	3
BIO 012 Environmental Science	3
BUS 060 Introduction to International Business	3
ENGL 016 Masterpieces of Western World Literature	3
ENGL 017	0
FOREIGN LANGUAGE—Any course numbered 001-034 not used above	3 - 5
HIST 003 Modern World History	3
GEOG 002 Cultural Geography	3
PHIL 031 Introduction to World Religions of the East	3
PHIL 032 Introduction to World Religions of the West	3
PLSC 002 Introduction to Comparative Governmen	3
SOCS 028 Introduction to African Studies	3
SPCH 010 Interpersonal Communication	3

*A passing score on any foreign language standardized proficiency examination can be substituted for the foreign language requirement

IR 001 3.0 Units

Global Interdependence

Course Advisory: Eligibility for ENGL 001, PLSC 001, ENGL 062. This is the gateway course for the International

Relations Major. Designed to give students a foundation for the study of international relations, it provides a backdrop to understanding global interdependence, its causes and consequences. Included are political, economic, historical, philosophical, cultural, geographical, and environmental dimensions of interdependence. This course adopts a multidisciplinary perspective and may feature guest speakers or presentations from a variety of disciplines. *Three hours lecture.*

Journalism

Program Description

Journalism teaches critical thinking and communication skills that enable students to translate events and issues of importance accurately and responsibly. Student who may benefit from the major are those anticipating careers in newspapers; television or film; photojournalism; layout, computer graphics or graphic design; advertising or public relations; or media management.

Associate in Arts Degree

An Associate in Arts Degree can be obtained upon completion of 60 units, including the required core courses, program electives, and courses in one of four emphasis areas (a total of 24 units); and completion of the general education requirements and electives. All courses in the major must be completed with a grade of C or better or a P if the course is taken on a pass-no pass basis.

Program Outcomes

Students who complete an Associate Degree will be able to:

1. Demonstrate the fundamental research and critical thinking skills necessary to analyze and interpret current issues in a professional media environment.
2. Utilize written, oral and visual communication skills to analyze, interpret and produce accurate news and opinions across a variety of platforms.
3. Recognize fundamental legal and ethical aspects of journalism and apply them to real-life circumstances.
4. Demonstrate a working knowledge of the fundamental technological applications of media production.

Required Courses	Units
JOUR 001 Newswriting and Reporting	3
JOUR 002 Introduction to Feature and Magazine Writing	3
JOUR 011 Introduction to Mass Communication	3
JOUR 060 Publications Laboratory	3
Program electives	12
Total Units	24

Recommended Electives

Any course from a second emphasis area

Any foreign language

JOUR 060 Publications Laboratory	2 - 3
MATH 011 * Elementary Statistics	4
OCED 090 Occupational Work Experience	1 - 8
OCED 091 General Work Experience	1 - 6

NOTE: Courses with an "*" have prerequisites or advisories other than eligibility for ENGL 001

Program electives are intended to improve students' critical thinking and communication skills and to give them tools to succeed in the workplace. Students must take at least three units in each of the following areas:

Area I-

ENGL 002 Critical Thinking and Writing About Literature	3
ENGL 004 Critical Thinking and Composition: Language in Context	3
MATH 011 Elementary Statistics	4
SPCH 006 Argumentation and Debate	3
PHIL 005 Critical Thinking: The Philosophic Grounds of Literacy	3

Area II—

ART 006 Design Principles in 2-Dimensions	3.5
ART 007 Design-Color	3.5
ART 052 Lettering and Layout	2 - 3.5
ART 056 Graphic Design I	3.5
ART 057 Graphic Design II	3.5
ENGL 006 Creative Writing 1	3
ENGL 058 Creative Writing: The Literary Magazine	3
JOUR 050 Grammar and Style for Media Writers	1
PHOT 030 Beginning Photography	3
PHOT 056 Photojournalism & Documentary Photography	3
PHOT 070 Beginning Digital Photography	3
SPCH 001 Introduction to Public Speaking	3
THEA 050 Performance for the Camera	3
TV 055 Beginning Television Production	3
TV 056 Advanced Television Production	3
TV 060 Television and Film Writing	3

Area III—

OCED 090 Occupational Work Experience	1 - 8
Any modern foreign language	

Journalism

- JOUR 001** **3.0 Units**
Newswriting & Reporting
Prerequisite: Eligibility for ENGL 001. This course teaches the theory and practice of writing news stories for the media. The student learns effective writing and interviewing strategies, common story structures, grammar and style rules, libel and privacy laws. *Three hours lecture.*
- JOUR 002** **3.0 Units**
Introduction to Feature and Magazine Writing
Prerequisite: Eligibility for ENGL 001. This class teaches the theory and practice of feature writing, including profiles, critical reviews, opinion columns, travel, news features and trend stories. Students learn research and reporting methods, grammar and style rules, libel and privacy laws, and tools for marketing their stories. *Three hours lecture.*
- JOUR 011** **3.0 Units**
Introduction to Mass Communication
Prerequisite: Eligibility for ENGL 001. Study of the mass media including newspapers, magazines, radio, television, motion pictures and advertising which examines the standards, ethics, and rights of the media and the relationship of government and the public to the various media forms. Emphasis is on the functions, limitations, and responsibilities of the press, as well as the past, present and future impact on society and the individual. Attention will be given to theories of persuasion, the symbolic power and manipulation of images, and the relationship between information and knowledge. Essay examinations and critical papers are required. *Three hours lecture.*
- JOUR 050** **1.0 Unit**
Grammar & Style for Media Writers
Prerequisite: Eligibility for ENGL 001; Course Advisory: SCC minimum math standard. Intensive review of grammar, word use, spelling, and principles of clear, concise writing for the media. This course is credit/no credit only. *Two hours lecture.*
- JOUR 060** **2.0 or 3.0 Units**
Publications Laboratory
Prerequisite: Eligibility for ENGL 001. Theory, practice, and training in planning, writing, editing, art work, photography, and management of staff members of the college online and print newspapers. Two-credit option is six hours a week; three-credit option is nine hours a week. Course is not open entry/open exit.
- JOUR 062** **1.0 Unit**
Journalism Practicum
Students will refine their newswriting, illustration or photojournalism skills in a practical setting. *Three hours lab.*
- JOUR 099** **1.0 to 3.0 Units**
Journalism Honors: Field Study
Prerequisites: Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 5 units in the discipline with a grade of B or better; an ability to work independently; and permission of the Division Dean based on instructor availability. Course Advisories: Eligibility for ENGL 1 and SCC minimum Math standard. An independent study class designed for students who have successfully completed at least two journalism classes and wish to do field work. The student works by arrangement with the instructor. Repeatable 1 time. *Three to nine hours weekly by arrangement.*
- JOUR Special Topics**
These courses, numbered 048, 098, or 148 depending upon their transferability, are courses of contemporary interest centered on changing knowledge and important issues in the field. Announcements of Special Topics courses appear in the Schedule of Classes.

Liberal Arts

(For Landscaping-See "Horticulture")

American Studies

AMST 001 3.0 Units

An Interdisciplinary Study of American Culture

Course Advisories: ENGL 001 and SCC minimum math standard. An interdisciplinary study of American civilization to the end of the Civil War. The course interrelates history, culture, philosophy and literature with emphasis on continuing themes. Critical papers and examinations are required. *Three hours lecture.*

AMST 002 3.0 Units

An Interdisciplinary Study of American Culture

Course Advisories: ENGL 001 and SCC minimum math standard. An interdisciplinary survey of American civilization from the late 19th century to the present. The course interrelates history, culture, philosophy and literature with emphasis on continuing themes. Critical papers and examinations are required. *Three hours lecture.*

Education

EDUC 050 3.0 Units

Introduction To Education

Course Advisory: SCC minimum English standard. Survey of American education as a social institution. The course is designed for, but not limited to, students who are considering entering the teaching profession. *Three hours lecture.*

Humanities

HUMN 001 3.0 Units

What It Means To Be Human

Prerequisite: ENGL 001. Explores what it means to be human by examining human life in several ways such as humans as social beings, language users, thinkers, myth makers, aggressors and peace makers, revolutionaries, scientists, and creators, and media creators and consumers. Inquiry into each category will involve critical thinking, artistic sensitivity, and historical perspective. *Three hours lecture.*

HUMN 002 3.0 Units

Humans As Creators: The Media of Creativity

Course Advisory: Eligibility for ENGL 001. Exploration of the varieties of ways in which humans demonstrate their creative ability ranging from a study of the creative process itself to an examination of creativity in the arts, in the sciences, and in human organization.

HUMN 003 3.0 Units

Journey Into a Multicultural Landscape

Course Advisories: SCC minimum English and math standards. Interdisciplinary course to help students recognize and explore sites of multicultural interaction and conflict in the U.S. by examining at least three different American ethnic cultures as well as cultural issues of gender, disability, sexual orientation, and age. Inquiry into the process of the making and representation of cultural artifacts will enable critical appraisal and appreciation, interpersonal sensitivity and multicultural perspective. *Three hours lecture.*

Learning Resources

LR 001 3.0 Units

Principles Of Library Research

Course Advisories: Eligibility for ENGL 001 and SCC minimum math standard. An overview of Information Competency concepts necessary to use research tools and select, locate, retrieve, and evaluate information. Emphasis will be placed on exploring information technologies including search engines, retrieval systems, online collaborative tools, and electronic publishing. *Three hours lecture.*

LR 010 1.0 Unit

Intro Lbry Resrch/Info Comptnc

Course Advisories: Eligibility for ENGL 001; SCC minimum math standard. An introduction to Information Competency skills necessary to use research tools and to select, locate, retrieve and evaluate information. *One hour lecture and two hours by arrangement wkly* (12 week course).

LR 011 1.5 Units

Internet Explored! Advanced Information Competency

Course Advisories: Eligibility for ENGL 001, Computer literacy (familiarity with basic computer functions). An advanced information competency course evaluating information and exploring information technology in society including Internet, World Wide Web, search engines (e.g., Google, Ask, Live), retrieval systems, and electronic publishing. (Formerly LR 051) *One and one-half hours lecture.*

LR 012 1.5 Units

Information & Society

Course Advisories: Eligibility for ENGL 001; Computer literacy (familiarity with basic computer functions). LR001, LR010, or LR011. Exploration of the social, cultural, and political context of information and information technologies like the Internet, World Wide Web, search engines, retrieval systems, electronic publishing, and distribution of media, including newspapers, books, and music. *One and one-half hours lecture.*

LR 500 Non-Credit

Topics in Research and Information Competency

A series of workshops introducing students to the fundamentals of Library Research & Information Competency. See the current schedule of classes for topics offered.

Life Management

Program Description

This program is intended for students desiring a broad overview of subjects involved in being an aware individual, consumer and wage earner. This is an interdisciplinary program, so the curriculum is not housed within any one division. The course descriptions may be found under the appropriate disciplines.

Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement can be obtained upon completion of the 24-unit major. The Associate in Science Degree can be obtained upon completion of a total of 60 units, including the major, general education requirements, and electives. All courses in the major must be completed with a grade of C or better or a P if the course is taken on a pass-no pass basis.

Program Outcomes

This information is not available at the time of printing. Please check online for current information as it is available.

Required Courses	Units
CIS 050 Microcomputer Applications	3
CIS 063 WordPerfect	3
FDES 060 Clothing Selection	3
HUDV 040 Family Relationships	3
<i>or</i>	
HUDV 070 Lifespan Human Development	3
HUDV 058 Life Management	3
INTD 050 Interior Design	3
MGMT 194 Personal Finance	3
NUTR 010 Nutrition	3
Total Units	24

Recommended Electives:

ACCT 180 Introduction to Accounting
BUS 182 Small Business Mathematics
COUN 050 Career-Life Planning
COUN 083 Applied Psychology
FDES 062 Clothing Construction
HUDV 038 Child Development
or
HUDV 039 School Years and Adolescent Development
HUDV 040 * Family Relationships
HUDV 050 Child, Family and Community
HUDV 052 Issues In Aging
HUDV 053 Teaching in a Diverse Society
INTD 051 Materials and Techniques
INTD 053 History of Furniture I
INTD 055 Advanced Interior design
MGMT 191 Human Relations
NUTR 101 Food Service Sanitation
OCED 090 Occupational Work Experience
OCED 091 General Work Experience

***If not used in the major**