## 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

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

<table>
<thead>
<tr>
<th>African-American Studies</th>
<th>Units</th>
<th>Latino Studies</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 033 Survey of African American Literature in the United States</td>
<td>3</td>
<td>ENGL 035 Latina/o Literature</td>
<td></td>
</tr>
<tr>
<td>or ENGL 034 African American Novel and Drama in the United States</td>
<td>3</td>
<td>SOCS 022 Ethnic, Racial and Minority Group Relations in Harmony and Conflict</td>
<td>3</td>
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<tr>
<td>SOCS 028 Introduction to African Studies</td>
<td>3</td>
<td>SOCS 025 Mexican-American Experience</td>
<td>3</td>
</tr>
<tr>
<td>HIST 028 African American History to 1877</td>
<td>3</td>
<td>SPAN 001 First Semester Spanish</td>
<td>5</td>
</tr>
<tr>
<td>or HIST 029 African American History Since 1865</td>
<td>3</td>
<td>SPAN 002 Second Semester Spanish</td>
<td>5</td>
</tr>
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<td>SOCS 022 Ethnic, Racial and Minority Group Relations in Harmony and Conflict</td>
<td>3</td>
<td>SPAN 003 Third Semester Spanish</td>
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</tr>
<tr>
<td>SOCS 023 Sociology of African Americans</td>
<td>3</td>
<td>SPAN 004 Fourth Semester Spanish</td>
<td>5</td>
</tr>
<tr>
<td>or SOCS 023 The African-American Family</td>
<td>3</td>
<td>HIST 030 History of Mexico</td>
<td>3</td>
</tr>
<tr>
<td>Any course listed in any Ethnic Studies major</td>
<td>3</td>
<td>HIST 031 Mexican American/Chicano History</td>
<td>3</td>
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<td><strong>Total Units</strong></td>
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<td>Any courses listed in the Ethnic Studies Program</td>
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<table>
<thead>
<tr>
<th>Asian-American Studies</th>
<th>Units</th>
<th>Native-American Studies</th>
<th>Units</th>
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<tbody>
<tr>
<td>ENGL 037 Survey of Asian American Literature</td>
<td>3</td>
<td>ENGL 032 Introduction to Native American Literature</td>
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<tr>
<td>HIST 032 History of the Philippines</td>
<td>3</td>
<td>SOCS 022 Ethnic, Racial and Minority Group Relations in Harmony and Conflict</td>
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<tr>
<td>SOCS 022 Ethnic, Racial and Minority Group Relations in Harmony and Conflict</td>
<td>3</td>
<td>SOCS 027 Native American Experience</td>
<td>3</td>
</tr>
<tr>
<td>SOCS 026 Filipino-American Experience</td>
<td>3</td>
<td>Any courses listed in any Ethnic Studies Major</td>
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<tr>
<td>Any courses listed in any Ethnic Studies Major</td>
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<td><strong>Total Units</strong></td>
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**Total Units:** 18-20
**Ethnic Studies**

<table>
<thead>
<tr>
<th>Ethnic Studies Combination</th>
<th>Units</th>
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<tbody>
<tr>
<td>AMST 001 An Interdisciplinary Study of American Culture</td>
<td>3</td>
</tr>
<tr>
<td>or AMST 002 An Interdisciplinary Study of American Culture</td>
<td>3</td>
</tr>
<tr>
<td>SOCS 022 Ethnic, Racial and Minority Group Relations in Harmony and Conflict</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 001 First Semester Spanish</td>
<td>5</td>
</tr>
<tr>
<td>or SPAN 002 Second Semester Spanish</td>
<td>5</td>
</tr>
<tr>
<td>or SPAN 003 Third Semester Spanish</td>
<td>5</td>
</tr>
<tr>
<td>or SPAN 004 Fourth Semester Spanish</td>
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<td>Electives selected from the following list</td>
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<td><strong>Total Units</strong></td>
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Select 12 units from the following
(all 3-unit courses) | Units |
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>ENGL 032 Introduction to Native American Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 033 Survey of African American Literature in the United States</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 034 African American Novel and Drama in the United States</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 035 Latina/o Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 036 Multi-Ethnic Literature in America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 025 Intro to Native America Studies</td>
<td>0</td>
</tr>
<tr>
<td>HIST 028 African American History to 1877</td>
<td>3</td>
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<tr>
<td>or HIST 029 African American History Since 1865</td>
<td>3</td>
</tr>
<tr>
<td>HIST 030 History of Mexico</td>
<td>3</td>
</tr>
<tr>
<td>HIST 031 Mexican American/Chicano History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 032 History of the Philippines</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 007 Jazz and Popular Music in America: Ragtime to Rock</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 024 Psychology of African Americans</td>
<td>3</td>
</tr>
<tr>
<td>SOC 023 Sociology of African Americans</td>
<td>3</td>
</tr>
<tr>
<td>SOCS 025 Mexican-American Experience</td>
<td>3</td>
</tr>
<tr>
<td>SOCS 026 Filipino-American Experience</td>
<td>3</td>
</tr>
<tr>
<td>SOCS 027 Native American Experience</td>
<td>3</td>
</tr>
</tbody>
</table>

**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
- ENGL 048 (Topics dealing with ethnic groups)
- 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
- SOCS 048 (Topics dealing with ethnic groups)
- 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 in the Film and Television program 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**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIN A 010</td>
<td>The Art of Cinema</td>
<td>3</td>
</tr>
<tr>
<td>CIN A 015</td>
<td>Film Production</td>
<td>3</td>
</tr>
<tr>
<td>TV 050</td>
<td>Survey of Broadcasting</td>
<td>3</td>
</tr>
<tr>
<td>TV 055</td>
<td>Beginning Television Production</td>
<td>3</td>
</tr>
<tr>
<td>TV 056</td>
<td>Advanced Television Production</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>CIN A 016</td>
<td>Film Production</td>
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<tr>
<td>TV 060</td>
<td>Television and Film Writing</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td><strong>18</strong></td>
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**Recommended Electives:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>ART 010</td>
<td>Art Appreciation</td>
</tr>
<tr>
<td>CIN A 011</td>
<td>American Cultures in Film</td>
</tr>
<tr>
<td>JOUR 011</td>
<td>Introduction to Mass Communication</td>
</tr>
<tr>
<td>MUSC 008</td>
<td>Music Appreciation</td>
</tr>
<tr>
<td>PHOT 030</td>
<td>Beginning Photography</td>
</tr>
<tr>
<td>SPCH 015</td>
<td>Oral Interpretation of Literature</td>
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<tr>
<td>THEA 001</td>
<td>Principles and Theory of Acting</td>
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<tr>
<td>THEA 002</td>
<td>Principles and Theory of Acting</td>
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<tr>
<td>THEA 010</td>
<td>History of Theatre 1</td>
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<tr>
<td>THEA 048</td>
<td>Special Topics</td>
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<tr>
<td>THEA 050</td>
<td>Performance for the Camera</td>
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<tr>
<td>THEA 098</td>
<td>Special Topics</td>
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<tr>
<td>TV 061</td>
<td>Advanced Film Writing</td>
</tr>
<tr>
<td>TV 098</td>
<td>Special Topics</td>
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<tr>
<td>TV 099</td>
<td>Telecommunications Honors</td>
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**Cinematography**

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>CIN A 010</td>
<td>The Art of the Cinema</td>
<td>3.0</td>
</tr>
<tr>
<td>CIN A 011</td>
<td>American Cultures in Film</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**CIN A 010**
The 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.*

**CIN A 011**
American Cultures in 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.*

**CIN A 015**
Film Production  
*Prerequisite: CIN A 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.*

**CIN A 016**
Film Production  
*Prerequisite: CIN A 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

#### Television

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
<th>Prerequisite/Advisory</th>
</tr>
</thead>
<tbody>
<tr>
<td>TV 050</td>
<td>3.0</td>
<td>Survey of Broadcasting</td>
<td>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.</td>
</tr>
<tr>
<td>TV 055</td>
<td>3.0</td>
<td>Beginning Television Production</td>
<td>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.</td>
</tr>
<tr>
<td>TV 056</td>
<td>3.0</td>
<td>Advanced Television Production</td>
<td>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.</td>
</tr>
<tr>
<td>TV 060</td>
<td>3.0</td>
<td>Television &amp; Film Writing</td>
<td>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.</td>
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</tbody>
</table>

**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 to 3 Units  
Telecommunications 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.

#### Special Topics

These courses, numbered 098, are courses of contemporary interest centered on changing knowledge and important issues in the field. Announcements of Special Topics courses...
Required Courses ........................ Units
ART 010 Art Appreciation ........................... 3
MUSC 007 Jazz and Popular Music in America:
                      Ragtime to rock ............................ 3
or
MUSC 008 Music Appreciation ........................ 3
THEA 001 Principles and Theory of Acting ....... 3
or
THEA 010 History of Theatre 1 ..................... 3
TV 050 Survey of Broadcasting .................... 3
or
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

Selection One: Select three units from the following
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
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

Recommended Electives:
SPCH 001 Introduction to Public Speaking
SPCH 015 Oral Interpretation of Literature
PHOT 148 Special Topics
THEA 003 Stagecraft
THEA 005 Applied Drama
THEA 007 Directing
TV 055 Beginning Television Production
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
This information is not available at the time of this printing. Please check online for current information as it is available.

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
12 units from electives below
Total Units ................................. 30

Select 12 units from the following electives:
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/............. 2.5
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
Public Education Officer I –FIRE 134 & 135
Fire Instructor I –FIRE 170 & 171
Prevention Officer I –FIRE 134, 135, & 136
Prevention Officer II –FIRE 174, 196, 176
Chief Officer –FIRE 165, 166, 167, 168, 185, 186, 187, 188, 189
**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.

**Required Courses**  
- FIRE 050 Principles of Emergency Services  
- FIRE 102 Fire Service Safety Practices  
- FIRE 112 Hazardous Materials I  
- FIRE 115 Hazardous Waste Operations  
- FIRE 116 Hazardous Substance Management  
- FIRE 123 Fire Service Principles and Procedures I  
- IMGT 172 Industrial Safety  
  
**Total Units**  
18

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**Recommended Electives**  
- OCED 091 General Work Experience  
- FIRE 114 Fire Apparatus Maintenance

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**Hazmat Worker Job-Direct Certificate Requirements**

All courses for Job-Direct Certificates must be completed with a grade of “C” or better.

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

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**Pre-Fire Technician Job-Direct Certificate Requirements**

All courses for Job-Direct Certificates must be completed with a grade of “C” or better.

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

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**Wildland Fire Technology Job-Direct Certificate Requirements**

All courses for Job-Direct Certificates must be completed with a grade of “C” or better.

**Required Courses**  
- FIRE 060 Wildland Pyrophyte Taxonomy  
- FIRE 113A Wildland Firefighter Academy  
  
**Total Units**  
21
## Fire Technology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRE 050</td>
<td>3.0</td>
<td>Fire Protection Organization</td>
<td>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. &lt;br&gt;<strong>Three hours lecture.</strong></td>
</tr>
<tr>
<td>FIRE 051</td>
<td>3.0</td>
<td>Fire Behavior &amp; Combustion</td>
<td>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. &lt;br&gt;<strong>Three hours lecture.</strong></td>
</tr>
<tr>
<td>FIRE 053</td>
<td>3.0</td>
<td>Fire Prevention</td>
<td>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 prevention 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. &lt;br&gt;<strong>Three hours lecture.</strong></td>
</tr>
<tr>
<td>FIRE 054</td>
<td>3.0</td>
<td>Fire Protection Systems</td>
<td>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. &lt;br&gt;<strong>Three hours lecture.</strong></td>
</tr>
<tr>
<td>FIRE 055</td>
<td>3.0</td>
<td>Fundamentals of Fire Service Operations</td>
<td>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. &lt;br&gt;<strong>Three hours lecture.</strong></td>
</tr>
<tr>
<td>FIRE 056</td>
<td>3.0</td>
<td>Building Construction for the Fire Service</td>
<td>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. &lt;br&gt;<strong>Three hours lecture.</strong></td>
</tr>
<tr>
<td>FIRE 059</td>
<td>3.0</td>
<td>Wildland Pyrophyte Taxonomy</td>
<td>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. &lt;br&gt;<strong>Three hours lecture, one hour lab.</strong></td>
</tr>
<tr>
<td>FIRE 083</td>
<td>2 or 2.5</td>
<td>Fire Candidate Physical Fitness</td>
<td>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) &lt;br&gt;<strong>One hour lecture, two or three hours activity.</strong></td>
</tr>
<tr>
<td>FIRE 112</td>
<td>3.0</td>
<td>Hazardous Materials I</td>
<td>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. &lt;br&gt;<strong>Three hours lecture.</strong></td>
</tr>
</tbody>
</table>
## Fire Technology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
<th>Prerequisites and Advisories</th>
</tr>
</thead>
</table>
| FIRE 113A   | 18.0  | 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 Service, 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 114    | 3.0   | 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   | 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 operate, 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 CF SM 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   | 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 CF SM 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). |

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**FIRE 113B**  
**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 115 2.0 Units
Hazardous Waste Operations
Course Advisories: SCC minimum English and math standards. 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. **Two hours lecture, one hour lab.**

FIRE 116 3.0 Units
Hazardous Substance Management
Course Advisory: SCC minimum English standard. 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. **Three hours lecture.**

FIRE 117 2.0 Units
Confined Space Awareness
Course Advisory: SCC minimum English and math standards. 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. **Forty hours lecture (1 week course).**

FIRE 118 2.0 Units
Confined Space Rescue
Course Advisory: SCC minimum English and math standards. 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. **Forty hours lecture (1 week course).**

FIRE 119 2.0 Units
Trench Rescue
Course Advisory: SCC minimum English and math standards. The student must be able to identify the hazards associated with trench rescue and master the skills necessary to mitigate these 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. **Forty hours lecture (1 week course).**

FIRE 123 1.0 Unit
Fire Service Principles and Procedures I
A study of the related tools and equipment used in fire suppression and rescue work. Repeatable 3 times. **Sixteen hours lecture, five hours lab (1 week course).**

FIRE 124 1.0 Unit
Fire Service Principles and Procedures II
Course Advisory: SCC minimum English standard. Presents the application of the basic skills in connecting, elevating and controlling hose lines and streams. Repeatable 3 times. **Sixteen hours lecture, eight hours lab (1 week course).**

FIRE 125 1.0 Unit
Fire Service Principles and Procedures III
Course Advisory: SCC minimum English standard. 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. **Sixteen hours lecture, five hours lab (1 week course).**

FIRE 126 1.0 Unit
Fire Service Principles and Procedures IV
Course Advisory: SCC minimum English standard. 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. **Sixteen hours lecture, five hours lab (1 week course).**

FIRE 127 1.0 Unit
Fire Service Principles and Procedures V
Course Advisory: SCC minimum English standard. 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. **Sixteen hours lecture, five hours lab (1 week course).**

FIRE 128 3.0 Units
Emergency Medical First Responder for the Fire Service
Course Advisory: SCC minimum English and math standards. 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. **Two and one-half hours lecture, one and one-half hours lab.**
## Fire Technology

### FIRE 129
**Fire Control I**
*Course Advisory: SCC minimum English standard.* Study of how fires start, spread and are controlled. Repeatable 3 times. *Twenty-four hours lecture (1 week course).*

### FIRE 130
**Fire Control II**
*Course Advisory: SCC minimum English and math standards.* Study of the identification of fire problems, use of equipment and personnel in search, rescue, and lifesaving situations created by fire. *Twenty-four hours lecture (1 week course).*

### FIRE 131
**Fire Control III**
*Course Advisory: SCC minimum English standard.* 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. *Twenty-one hours lecture (1 week course).*

### FIRE 132
**Pump Operation and Fire Hydraulics**
*Course Advisory: SCC minimum English standard.* 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. *Thirty-two hours lecture, eight hours lab (1 week course).*

### FIRE 134
**Prevention IA**
*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 053 and Fire 056, or (2) State Certification as a Firefighter I and II. Course Advisory: SCC minimum English standard.* 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 fire 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(CSFVM) 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. *Four hours lecture (10 week course).*

### FIRE 135
**Prevention IB Inspection/ Fire Prot. Systems & Spec Haz**
*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.* 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(CSFVM) 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. *Four hours lecture (10 week course).*

### FIRE 136
**Prevention 1C-Flammable Liquids and Gases**
*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.* 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(CSFVM) 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. *Four hours lecture (10 week course).*

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# Fire Technology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Description</th>
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<tbody>
<tr>
<td>FIRE 140</td>
<td>24.0</td>
<td>Fire Technology Academy</td>
</tr>
<tr>
<td>FIRE 145</td>
<td>2.0</td>
<td>Fire Investigation I</td>
</tr>
<tr>
<td>FIRE 146</td>
<td>2.0</td>
<td>Fire Investigation II</td>
</tr>
<tr>
<td>FIRE 147A</td>
<td>3.0</td>
<td>Pre-Fire Fuels Management</td>
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<tr>
<td>FIRE 147B</td>
<td>3.0</td>
<td>Fire Operations in the Wildland Urban Interface</td>
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<tr>
<td>FIRE 148BB</td>
<td>1.0</td>
<td>Introduction to Homeowner Inspections</td>
</tr>
<tr>
<td>FIRE 148CC</td>
<td>4.0</td>
<td>Introduction to Pre-Fire Instruments &amp; Defensible Space Design</td>
</tr>
</tbody>
</table>

**FIRE 140**

**Pre-requisite(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-2, 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**

**Pre-requisite(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.** 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 146**

**Pre-requisite: 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**

**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**

**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/orban 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**

**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. **Three hours lecture, three hours lab.**

**FIRE 148CC**

**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 Technology

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 though landscape maintenance practice with emphasis on care and maintenance of trees, shrubs, grounds covers, lawns and firesafe building construction practices. Safety training will be incorporated throughout the course. Two hours lecture and Three hours lab.

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 indemnification 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 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 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.

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 Technology**

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<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
<th>Prerequisite(s)</th>
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<tbody>
<tr>
<td>FIRE 150</td>
<td>2.0</td>
<td>Fire Command IA</td>
<td>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).</td>
</tr>
<tr>
<td>FIRE 151</td>
<td>2.0</td>
<td>Fire Command IB</td>
<td>FIRE 150 - Fire Command IA. 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. 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).</td>
</tr>
<tr>
<td>FIRE 152</td>
<td>2.0</td>
<td>Fire Management 2C</td>
<td>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).</td>
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<tr>
<td>FIRE 153</td>
<td>2.0</td>
<td>Rescue Systems I</td>
<td>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).</td>
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<tr>
<td>FIRE 154</td>
<td>2.0</td>
<td>Strike Team Leader (S-334)</td>
<td>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).</td>
</tr>
<tr>
<td>FIRE 155</td>
<td>1.0</td>
<td>Basic ICS (I-200)</td>
<td>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).</td>
</tr>
<tr>
<td>FIRE 161</td>
<td>2.0</td>
<td>Fire Management I</td>
<td>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).</td>
</tr>
<tr>
<td>FIRE 165</td>
<td>2.0</td>
<td>Fire Management 2A-Organization and Development</td>
<td>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).</td>
</tr>
</tbody>
</table>
Fire Technology

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 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 1A
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 1B
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, 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 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 acitivies (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.

Special Topics
These courses, numbered 148, 248, or 548 depending upon their transferability, are courses of contemporary interest centered on changing knowledge and important issues in the field. Specific information will vary with each course.
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 Arts 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 the Associate Degree will be able to:
1. Gain knowledge and awareness of other cultures by comparison and contrast of American and French, Spanish, or German language, customs, societies, institutions, etc.
2. Complete high-school foreign language requirements necessary for transfer to a four-year institution and/or fulfill foreign language graduation requirements established by some four-year institutions.
3. Pursue an AA degree in Foreign Languages (General) or in an Individual Language (French, German, Spanish) with the intent of entering a major’s program of study at a four-year institution.

Required Courses ......................... Units

French
FREN 001 First Semester French .............. 5
or
FREN 031 First Semester French, Part 1 ........ 3
and
FREN 032 First Semester French, Part 2 ........ 3
FREN 002 Second Semester French .............. 5
or
FREN 033 Second semester French, Part 1 ........ 3
and
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
GRMN 001 First Semester German .............. 5
or
GRMN 031 First Semester German, Part 1 ........ 3
and
GRMN 032 First Semester German, Part 2 ........ 3
GRMN 002 Second Semester German .............. 5
or
GRMN 033 Second Semester German, Part 1 ........ 3
and
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
SPAN 001 First Semester Spanish .............. 5
or
SPAN 031 First Semester Spanish, Part 1 ........ 3
and
SPAN 032 First Semester Spanish, Part 2 ........ 3
SPAN 002 Second Semester Spanish .............. 5
or
SPAN 033 Second Semester Spanish, Part 1 ........ 3
and
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
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.

Associate in Arts 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 and 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

**Foreign Language, French**

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<td>FREN 002</td>
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<td>FREN 004</td>
<td>Fourth Semester French</td>
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<td>FREN 012</td>
<td>Intermediate French Conversation</td>
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<td>FREN 031</td>
<td>First Semester French, Part 1</td>
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<td>First Semester French, Part 2</td>
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<td>Second Semester French, Part 2</td>
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<tr>
<td>FREN 049</td>
<td>French Honors</td>
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**Foreign Language, German**

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<td>GRMN 012</td>
<td>Intermediate German Conversation</td>
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<td>GRMN 031</td>
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<tr>
<td>GRMN 049</td>
<td>German Honors</td>
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## Foreign Languages

### Foreign Language, Spanish

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<td>SPAN 002</td>
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<td>SPAN 012</td>
<td>Intermediate Spanish Conversation</td>
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<tr>
<td>SPAN 025</td>
<td>Introduction to Latin-American Culture: An Exploration of Identity Through Essay, Film, and Short Story</td>
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<td>First Semester Spanish, Part 1</td>
<td>3</td>
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<td>SPAN 032</td>
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<td>SPAN 049</td>
<td>Spanish Honors</td>
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<tr>
<td>SPAN 061M</td>
<td>Beginning Spanish, Part 1 for Medical Workers</td>
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<td>SPAN 062M</td>
<td>Beginning Spanish, Part 2 for Medical Workers</td>
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<td>SPAN 063M</td>
<td>Beginning Spanish, Part 3 for Medical Workers</td>
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<td>SPAN 064M</td>
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<td>Spanish for Spanish Speakers 2</td>
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</table>

### Foreign Languages, French

#### FREN 001
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 FRENCH 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
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
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, and writing) 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
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.**
Foreign Languages

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.

FREN 033 3.0 Units
Second Semester French, Part I
Prerequisites: FREN 001 or FREN 032. Not open for credit to students who have received credit for FREN 002. 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. Three hours lecture.

FREN 034 3.0 Units
Second Semester French, Part II
Prerequisites: FREN 033. Not open for credit to students who have received credit for FREN 002. 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. Three hours lecture.

FREN 049 1 to 3 Units
French 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 French or creative writing in French. 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, German

GRMN 001 5.0 Units
First Semester German
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. 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. Five hours lecture, one hour weekly of listening to tapes.
### Foreign Languages

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<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>GRMN 002</strong></td>
<td>5.0</td>
<td><strong>Second Semester German</strong>&lt;br&gt;<strong>Prerequisites:</strong> GRMN 001, or GRMN 031 and 032, or two years of high school German or the equivalent. <strong>Note:</strong> Not open to students who have completed GRMN 033 and/or 034. 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. <em>Five hours lecture, one hour weekly of listening to tapes.</em></td>
</tr>
<tr>
<td><strong>GRMN 012</strong></td>
<td>3.0</td>
<td><strong>Intermediate German Conversation</strong>&lt;br&gt;<strong>Prerequisite:</strong> GRMN 011. A continuation of GRMN 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. <em>Three hours lecture.</em></td>
</tr>
<tr>
<td><strong>GRMN 003</strong></td>
<td>5.0</td>
<td><strong>Third Semester German</strong>&lt;br&gt;<strong>Prerequisite:</strong> GRMN 002, or GRMN 034, or three years of high school German. 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. <em>Five hours lecture.</em></td>
</tr>
<tr>
<td><strong>GRMN 031</strong></td>
<td>3.0</td>
<td><strong>First Semester German, Part I</strong>&lt;br&gt;<strong>Prerequisites:</strong> None. <strong>Note:</strong> 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. <strong>Note:</strong> In order to fulfill the one-semester German 1 requirement of some universities, transfer students must complete the sequence of GRMN 031 and 032. <strong>Course Advisory:</strong> 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. <em>Three hours lecture, one hour weekly of listening to tapes.</em></td>
</tr>
<tr>
<td><strong>GRMN 004</strong></td>
<td>5.0</td>
<td><strong>Fourth Semester German</strong>&lt;br&gt;<strong>Prerequisite:</strong> GRMN 003 or four years of high school German. 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. <em>Five hours lecture.</em></td>
</tr>
<tr>
<td><strong>GRMN 032</strong></td>
<td>3.0</td>
<td><strong>First Semester German, Part II</strong>&lt;br&gt;<strong>Prerequisites:</strong> GRMN 031 or one year of high school German. <strong>Note:</strong> 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. <strong>Note:</strong> 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. <em>Three hours lecture, one hour weekly of listening to tapes.</em></td>
</tr>
<tr>
<td><strong>GRMN 001</strong></td>
<td>3.0</td>
<td><strong>Conversational German</strong>&lt;br&gt;<strong>Prerequisite:</strong> GRMN 002 or GRMN 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. <em>Three hours lecture.</em></td>
</tr>
</tbody>
</table>
Foreign Languages

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 to 3 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.

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

Foreign Languages, Latin

LATN 001  3.0 Units
Latin Fundamentals
Course Advisory: SCC minimum English standard. Introduction to the Latin language - 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 - 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 to 3 Units
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 010  3.0 Units
Conversational Portuguese
Course Advisories: SCC minimum English and math standards. 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.

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, 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 061M and/or 062M. 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.
Foreign Languages

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 064M 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.

SPAN 012 3.0 Units
Intermediate Spanish Conversation
Prerequisite(s): SPAN 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.
### Foreign Languages

**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’ conversations 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 symbism, 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 to 3 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.*

**SPAN 061M** 3.0 Units  
Beginning Spanish, Part I 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.*
Foreign Languages

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.

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 Arts 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**

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

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

**Electives selected from the following categories**

I. United States ................................... Units  
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

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**HIST 002**  
World History to 1750  
3.0 Units  
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**  
Modern World History  
3.0 Units  
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 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 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 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 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.
History

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.

HIST 049  1 to 3 Units
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.

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.
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. Understand basic horticultural concepts applied in garden, nursery, and/or landscape setting;
2. Have the workplace skills of responsibility, productivity, self-management, self-awareness, and effective communication.
3. Complete the degree/certificate requirements for Horticultural Science.

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
For each of the following programs, 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.

Horticulture Science

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  3.0 Units
Landscape Design II
Prerequisites: A grade of “C” or better in HORT 030. Course Advisories: HORT 050; SCC minimum English and math standards. 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. Two hours lecture, three hours lab.

HORT 050  3.0 Units
Introduction to Ornamental Horticulture
Course Advisories: SCC minimum English and math standards. 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. Two hours lecture, three hours lab.

HORT 055  3.0 Units
Soil and Fertilizers
Course Advisories: SCC minimum English and math standards. 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. Two hours lecture, three hours lab.

HORT 056  4.0 Units
Landscape Pest Control and Management
Course Advisories: SCC minimum English and math standards. 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. Three hours lecture, three hours lab.

HORT 070  3.0 Units
Landscape Construction and Estimation
Course Advisories: SCC minimum English and math standards; HORT 050. Study of the construction of patios, decks, walks, retaining walls, raised planters, mow strips, 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. Two hours lecture, three hours lab.

HORT 071  3.0 Units
Irrigation Principles
Course Advisories: SCC minimum English and math standards; HORT 055. 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. Two hours lecture, three hours lab.

HORT 301A  2.0 Units
Adaptive Horticulture - Basic Skills and Practices
Course Advisory: This course is for students with learning difficulties. 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. Two hours lecture, four hours lab and four hours activities (8 week course).

HORT 301B  2.0 Units
Adaptive Greenhouse Management
Course Advisory: This course is primarily for students with special learning needs. 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. Students will learn greenhouse management skills for employment preparation. Repeatable 2 times. Two hours lecture, four hours lab and four hours activities (8 week course).
**Horticulture and Plant Science**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HORT 301C</td>
<td>2.0</td>
<td>Adaptive Nursery Management</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Course Advisory: This course is primarily for students with disabilities.</em> 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 of this course. Repeatable 2 times. <strong>Two hours lecture, four hours lab, four hours activity (8 week course).</strong></td>
</tr>
<tr>
<td>HORT 301D</td>
<td>2.0</td>
<td>Adaptive Vegetable and Orchard Management</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Course Advisory: This course is primarily for students with disabilities.</em> 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. <strong>Two hours lecture, four hours lab, four hours activity (8 week course).</strong></td>
</tr>
<tr>
<td>HORT 301E</td>
<td>2.0</td>
<td>Adaptive Plant Propagation</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Course Advisory: This course is primarily for students with disabilities.</em> This is a plant propagation skills vocational training course adapted for 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. <strong>Two hours lecture, four hours lab, four hours activity (8 week course).</strong></td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
<th>Course Advisory</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUVD 038</td>
<td>3.0</td>
<td>Child Developm ent</td>
<td>Eligibility for ENGL 001</td>
<td>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. Field trip may be required. Three hours lecture.</td>
</tr>
<tr>
<td>HUVD 039</td>
<td>3.0</td>
<td>School Years and Adolescent Developm ent</td>
<td>SCC minimum English standard; PSYC 001 or HUVD 038</td>
<td>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.</td>
</tr>
<tr>
<td>HUVD 040</td>
<td>3.0</td>
<td>Family Relationships</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>HUVD 050</td>
<td>3.0</td>
<td>Child, Family, Community</td>
<td>Completion of ENGL 001</td>
<td>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.</td>
</tr>
<tr>
<td>HUVD 053</td>
<td>3.0</td>
<td>Teaching in a Diverse Society</td>
<td>Eligibility for ENGL 001 and SCC minimum Math standards</td>
<td>Course Descriptions: 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.</td>
</tr>
<tr>
<td>HUVD 070</td>
<td>3.0</td>
<td>Lifespan Human Developm ent</td>
<td>Eligibility for ENGL 001</td>
<td>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.</td>
</tr>
<tr>
<td>HUVD 075</td>
<td>.5 to 3</td>
<td>Children with Special Needs</td>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>
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
This information is not available at the time of this printing. Please check online for current information as it is available.

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
</table>
| **HS 051**  | 3.0  | 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  | 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  | 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  | 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.* |

**Special Topics**  
These courses, numbered 098, 148, or 248 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 this 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**
This information is not available at the time of this printing. Please check online for current information as it is available.

*Required Courses* .......................... Units
ACR 100 Air Conditioning and Refrigeration ...... 3
or
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

**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.

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

*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
**Electives-List A** ................................ Units
ACR 100 Air Conditioning and Refrigeration ............... 3
or
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

**Total Units** .......................... 36
Industrial Education

Manufacturing Technology Job-Direct Certificate
The required courses must be completed with a grade of “C” or better.

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

Required Courses ................................. Units
BUS 100 Work Readiness ....................... 1
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 Air Conditioning and Refrigeration 3 Units
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 Air Conditioning and Refrigeration 3 Units
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 Industrial Safety 3.0 Units
Course Advisory: SCC minimum English standard. Comprehensive study and analysis of safety principles applied to the workplace. Three hours lecture.

IMGT 182 Organization and Administration of Safety Programs 3.0 Units
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 Introduction to Industrial Hygiene 3.0 Units
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 Elements of Accident Investigation 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 Alternative Energy Technologies 3.0 Units
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 How Things Work 3.0 Units
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.
## Industrial Education

### 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.*

### 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.*

### Special Topics

These courses, numbered 148 or 248, 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.*
**Industrial Education**

**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.*

**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 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.*
## Industrial Education

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
<th>Course Advisory:</th>
<th>Prerequisites:</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT 203</td>
<td>1.0 Unit</td>
<td>CPR, First Aid, and Safety in the Wind Park</td>
<td>SCC minimum English and math standards.</td>
<td>MT 201 with a grade of “C” or better.</td>
<td>One hour lecture.</td>
</tr>
<tr>
<td>MT 204</td>
<td>1.0 Unit</td>
<td>Electrical Measuring Equipment for Wind Turbines</td>
<td>SCC minimum English and math standards.</td>
<td>MT 201 with a grade of “C” or better.</td>
<td>One hour lecture.</td>
</tr>
<tr>
<td>MT 205</td>
<td>1.0 Unit</td>
<td>Direct Current for Wind Turbines</td>
<td>SCC minimum English and math standards.</td>
<td>MT 201 with a grade of “C” or better.</td>
<td>One hour lecture.</td>
</tr>
<tr>
<td>MT 206</td>
<td>1.0 Unit</td>
<td>Alternating Current for Wind Turbines</td>
<td>SCC minimum English and math standards.</td>
<td>MT 201 with a grade of “C” or better.</td>
<td>One hour lecture.</td>
</tr>
<tr>
<td>MT 207</td>
<td>1.0 Unit</td>
<td>High Power Systems for Wind Turbines</td>
<td>SCC minimum English and math standards.</td>
<td>MT 201 with a grade of “C” or better.</td>
<td>One hour lecture.</td>
</tr>
<tr>
<td>MT 208</td>
<td>1.0 Unit</td>
<td>Electronics for Wind Turbines</td>
<td>SCC minimum English and math standards.</td>
<td>MT 201 with a grade of “C” or better.</td>
<td>One hour lecture.</td>
</tr>
<tr>
<td>MT 209</td>
<td>1.0 Unit</td>
<td>Electromechanical Systems for Wind Turbines</td>
<td>SCC minimum English and math standards.</td>
<td>MT 201 with a grade of “C” or better.</td>
<td>One hour lecture.</td>
</tr>
<tr>
<td>MT 210</td>
<td>1.0 Unit</td>
<td>PLC’s and Transformers for Wind Turbines</td>
<td>SCC minimum English and math standards.</td>
<td>MT 201 with a grade of “C” or better.</td>
<td>One hour lecture.</td>
</tr>
<tr>
<td>MT 211</td>
<td>1.0 Unit</td>
<td>Wind Turbine Maintenance Practices</td>
<td>SCC minimum English and math standards.</td>
<td>MT 201 with a grade of “C” or better.</td>
<td>One hour lecture.</td>
</tr>
<tr>
<td>MT 212</td>
<td>1.0 Unit</td>
<td>Wind Turbine Airfoils and Composites</td>
<td>SCC minimum English and math standards.</td>
<td>MT 201 with a grade of “C” or better.</td>
<td>One hour lecture.</td>
</tr>
<tr>
<td>MT 213</td>
<td>1.0 Unit</td>
<td>Wind Turbine Operations</td>
<td>SCC minimum English and math standards.</td>
<td>MT 201 with a grade of “C” or better.</td>
<td>One hour lecture.</td>
</tr>
</tbody>
</table>

**Special Topics**

These courses, numbered 148 or 248, 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.
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
This information is not available at the time of this printing. Please check online for current information as it is available.

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, 020, 021, 023, 024, 025, 030, 031, 032, 033, 034, 035, 036, 037, 038, 040, 041, 044, 045, 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
SPCH 015
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
SOCS 030, 051
TV 050, 060, 061

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
BIOL 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
GEOG 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 (GEOG 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, 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

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
**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**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTD 050</td>
<td>Interior Design</td>
<td>3.0</td>
</tr>
<tr>
<td>INTD 051</td>
<td>Materials and Techniques</td>
<td>3.0</td>
</tr>
<tr>
<td>INTD 052</td>
<td>Drafting &amp; Perspective Drawing for Interiors</td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>DRFT 050</td>
<td>Basic Drafting</td>
<td>3.0</td>
</tr>
<tr>
<td>INTD 053</td>
<td>History of Furniture I</td>
<td>3.0</td>
</tr>
<tr>
<td>INTD 098A</td>
<td>History of Furniture II</td>
<td>3.0</td>
</tr>
<tr>
<td>INTD 055</td>
<td>Advanced Interior Design</td>
<td>3.0</td>
</tr>
<tr>
<td>INTD 061</td>
<td>Textiles for Interior Design</td>
<td>3.0</td>
</tr>
<tr>
<td>INTD 065</td>
<td>Kitchen and Bathroom Design</td>
<td>3.0</td>
</tr>
<tr>
<td>BUS 181</td>
<td>Business Mathematics</td>
<td>1.0</td>
</tr>
<tr>
<td>OCED 090</td>
<td>Occupational Work Experience</td>
<td>3.0</td>
</tr>
<tr>
<td>ART 007</td>
<td>Design-Color</td>
<td>3.0</td>
</tr>
<tr>
<td>ART 060</td>
<td>Exhibition Design</td>
<td>3.0</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td><strong>37.0</strong></td>
</tr>
</tbody>
</table>

Choose three units from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRFT 079</td>
<td>Blueprint Reading</td>
<td>3.0</td>
</tr>
<tr>
<td>SPCH 010</td>
<td>Interpersonal Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>BUS 005</td>
<td>Introduction to Business</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Course Descriptions**

**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**  
Advanced Interior Design  
*Prerequisites: INTD 050, 051, 052, 053. Course Advisory: 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**  
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**  
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**  
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 this 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 ......... 3
Total Units .................................. 28

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

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 ..............
BUS 060 Introduction to International Business .... 3
ENGL 016 Masterpieces of Western
       World Literature ..................... 3
FOREIGN LANGUAGE—
   Any course numbered 001-034 not used above .. 3
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 Government 3
SOC 028 Introduction to African Studies .... 3
SPCH 010 Interpersonal Communication .... 3

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.
### Program Description

Journalism teaches critical thinking and communication skills that enable students to translate events and issues of importance accurately and responsibly. Students 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

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

#### Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 001</td>
<td>Newswriting and Reporting</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 002</td>
<td>Introduction to Feature</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 011</td>
<td>Introduction to Mass Communication</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 060</td>
<td>Publications Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>Program electives</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td><strong>24</strong></td>
<td></td>
</tr>
</tbody>
</table>

#### 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

#### 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

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**NOTE:** Courses with an “*” have prerequisites or advisories other than eligibility for ENGL 001
**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 or 3 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 to 3 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.*

**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.
## 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. Three hours lecture.

**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 is a program 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 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 this printing. Please check online for current information as it is available.

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Name</th>
<th>Units</th>
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<tbody>
<tr>
<td>CIS 050</td>
<td>Microcomputer Applications</td>
<td>3</td>
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<tr>
<td>CIS 063</td>
<td>WordPerfect</td>
<td>3</td>
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<tr>
<td>FDES 060</td>
<td>Clothing Selection</td>
<td>3</td>
</tr>
<tr>
<td>HUDV 040</td>
<td>Family Relationships</td>
<td>3</td>
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<td>or</td>
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<tr>
<td>HUDV 070</td>
<td>Lifespan Human Development</td>
<td>3</td>
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<td>HUDV 058</td>
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<td>INTD 050</td>
<td>Interior Design</td>
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<td>MGMT 194</td>
<td>Personal Finance</td>
<td>3</td>
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<tr>
<td>NUTR 010</td>
<td>Nutrition</td>
<td>3</td>
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<tr>
<td><strong>Total Units</strong></td>
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<td><strong>24</strong></td>
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**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
- MGMT 191 Human Relations
- 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