FASH 148 Digital Design for Fashion (3)
2 hours lecture - 3 hours laboratory
Transfer acceptability: CSU
Design and illustrate fashion sketches, storyboards, and patterns using Adobe Illustrator and Adobe Photoshop. Development of individual skills and style in graphic presentations.

FASH 149 Fine Dressmaking (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of ‘C’ in FASH 136
Transfer acceptability: CSU
A study of techniques used to develop fine dressmaking skills including construction used in high-end ready to wear and couture fashions.

FASH 155 World of Fashion (2, 3)
1, 2, or 3 hours lecture - 1½, 2, 3, or 4½ laboratory
Note: Fee charged
Transfer acceptability: CSU
Extended field studies in textiles, design, manufacturing, forecasting, and retail practices as they apply to the national and international fashion industry. Emphasis upon field observation and examination of the fashion trends as they interrelate with the social, political, psychological, economic, and historical influences to create the fashion ambience. Geographical locations may vary.

FASH 168 CAD Laboratory (.5)
1½ hours laboratory
Corequisite: FASH 146 or 147
Transfer acceptability: CSU
Enhancement of CAD (Digital Design for Fashion) skills by supervised practice and active participatory experience in individual study. Specific content to be determined by the need of the student in agreement and under observation and direction of the instructor.

FASH 170 Introduction to Fabric Design/Painting (3)
1½ hours lecture - 4½ hours laboratory
Transfer acceptability: CSU
Traditional and contemporary methods in the application of fabric dyes and paints using fundamental design principles for textiles and clothing.

FASH 175 Analysis, Evaluation, and Comparison of Ready-to-Wear (3)
3 hours lecture
Transfer acceptability: CSU
Analysis of the quality of materials, design, and construction in ready-to-wear garments and accessories; comparison of processes involved in manufacturing; concepts of sizing; principles of fit; and aids in buying and selling.

FASH 178 Fashion Career Portfolio (2)
2 hours lecture
Transfer acceptability: CSU
Creation of a professional portfolio for careers in the fashion industry.

FASH 195 Field Studies in Fashion (2)
1 hour lecture - 3 hours laboratory
Transfer acceptability: CSU
Fashion industry on site: process of designing, manufacturing, marketing, and merchandising of fashion apparel and related accessories.

FASH 197A Fashion Merchandising Workshop (.5-3)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU
Covers areas of the fashion merchandising industry which are rapidly changing or require current short term specific training.

FASH 197B Fashion Manufacturing Workshop (.5-3)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU
Covers areas of the fashion manufacturing industry which are rapidly changing or require current short term specific training.

FASH 197C Fashion Design Workshop (.5-3)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU
Covers areas of the fashion design industry which are rapidly changing or require current short term specific training.

FASH 295 Directed Study in Fashion (1, 2, 3)
3, 6, or 9 hours laboratory
Prerequisite: Approval of project or research by department chairperson/director
Transfer acceptability: CSU
Independent study for students who have demonstrated skills and/or proficiencies in Fashion subjects and have the initiative to work independently on projects or research outside the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.

Fire Technology (FIRE)
Contact Public Safety Programs for further information.
(760) 744-1150, ext. 1704
Office: PSTC, 182 Santar Place, San Marcos

Associate in Science Degrees -
AS Degree requirements are listed in Section 6 (green pages).
• Fire Academy
• Fire Technology - Emergency Management
• Fire Technology - General

Certificates of Achievement -
Certificate of Achievement requirements are listed in Section 6 (green pages).
• Fire Academy
• Fire Technology - Emergency Management
• Fire Technology - General

PROGRAMS OF STUDY

Fire Academy
Training to meet the requirements mandated by the California Office of State Fire Marshal for Certified Fire Fighter I. Covers fire ground procedures, tactics, strategy, safety methods, fire dynamics, equipment usage and deployment, and subject material pertaining to the role of fire fighters within the fire service.

Prepares students for a career in the fire suppression/protection field. The student also receives additional certifications from the California State Fire Marshall’s Office.

CERTIFICATE OF ACHIEVEMENT

Program Requirements
EME 100/HE 104 Emergency Medical Responder 3
EME 106 Emergency Medical Technician (Lecture) 6
EME 106L Emergency Medical Technician Skills (Laboratory) 1.5
FIRE 151 Fire Fighter I Academy 20

TOTAL UNITS 30.5

Fire Technology - Emergency Management
Prepares student for career in Emergency Management.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements
FIRE 100 Fire Protection Organization 3
FIRE 115 Hazardous Materials I 3
FIRE 120 Building Construction for Fire Protection 3
FIRE 131 Emergency Preparedness 3
FIRE 132 Fundamentals of Emergency Management 3
FIRE 133 Disaster Mitigation 3
## Electives (Select 12 units)

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<thead>
<tr>
<th>Course</th>
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<th>Units</th>
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<tbody>
<tr>
<td>FIRE 51</td>
<td>Fire Academy Preparation</td>
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<tr>
<td>FIRE 71</td>
<td>Trench Rescue</td>
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<td>FIRE 72</td>
<td>Swiftwater Rescue</td>
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<tr>
<td>FIRE 98</td>
<td>Fire Service Skills</td>
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<td>FIRE 101</td>
<td>Firefighter Safety</td>
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<td>FIRE 118</td>
<td>Fire Prevention Technology</td>
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<tr>
<td>FIRE 125</td>
<td>Fire Apparatus and Equipment</td>
<td>3</td>
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<tr>
<td>FIRE 130</td>
<td>Fire Protection Equipment and Systems</td>
<td>3</td>
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<tr>
<td>FIRE 142</td>
<td>Fire Ethics</td>
<td>3</td>
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<tr>
<td>FIRE 145</td>
<td>Fire Fighting Tactics and Strategy</td>
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<td>Fire Fighter I Academy</td>
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<td>FIRE 160</td>
<td>Wildland Fire Control I</td>
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<td>FIRE 165</td>
<td>Fundamentals of Fire Protection Chemistry</td>
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<td>FIRE 168</td>
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<td>FIRE 194</td>
<td>Fire Instructor IB</td>
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<td>FIRE 197A</td>
<td>Fire Technology General Topics</td>
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<td>FIRE 197B</td>
<td>Fire Technology Command Topics</td>
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</table>

### TOTAL UNITS 30

## Fire Technology - General

Prepares students for a career in fire suppression, fire prevention and/or fire protection.

### A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

<table>
<thead>
<tr>
<th>Program Requirements</th>
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<td>FIRE 130</td>
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<td>FIRE 165</td>
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### Elective Courses (Select 15 units)

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<tr>
<td>FIRE 115</td>
<td>Hazardous Materials I</td>
<td>3</td>
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<tr>
<td>FIRE 125</td>
<td>Fire Apparatus and Equipment</td>
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<tr>
<td>FIRE 131</td>
<td>Emergency Preparedness</td>
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<td>FIRE 132</td>
<td>Fundamentals of Emergency Management</td>
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<td>FIRE 133</td>
<td>Disaster Mitigation</td>
<td>3</td>
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<td>FIRE 142</td>
<td>Fire Ethics</td>
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<tr>
<td>FIRE 145</td>
<td>Fire Fighting Tactics and Strategy</td>
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<td>FIRE 151</td>
<td>Fire Fighter I Academy</td>
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<tr>
<td>FIRE 152</td>
<td>Driver Operator Academy</td>
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<td>FIRE 160</td>
<td>Wildland Fire Control I</td>
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<td>FIRE 168</td>
<td>Volunteer Fire Fighter Academy</td>
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<td>FIRE 175</td>
<td>Fire Command IA</td>
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<td>FIRE 176</td>
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<td>FIRE 197B</td>
<td>Fire Technology Command Topics</td>
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</table>
FIRE 115 Hazardous Materials I (3)  
3 hours lecture  
Transfer acceptability: CSU  
A review of basic chemistry; storage, handling, laws, standards, and fire fighting practices pertaining to hazardous materials.

FIRE 118 Fire Prevention Technology (3)  
3 hours lecture  
Transfer acceptability: CSU  
Provides fundamental information regarding 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 relationships of fire prevention with built-in fire protection systems, fire investigation and fire safety education. Provides skills necessary for California Fire Service Training and Education system.

FIRE 120 Building Construction for Fire Protection (3)  
3 hours lecture  
Transfer acceptability: CSU  
The study of the components of building construction that relate to fire/life safety. The development and evolution of building and fire codes will be studied in relationship to past fires/collapses in residential, commercial, and industrial occupancies.

FIRE 125 Fire Apparatus and Equipment (3)  
3 hours lecture  
Transfer acceptability: CSU  
Driving laws, driving technique, construction and operation of pumping engines, ladder trucks, aerial platforms, specialized equipment, and apparatus maintenance.

FIRE 130 Fire Protection Equipment and Systems (3)  
3 hours lecture  
Transfer acceptability: CSU  
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.

FIRE 131 Emergency Preparedness (3)  
3 hours lecture  
Transfer acceptability: CSU  
Emergency preparedness related to natural and man-made disasters. Planning concepts and the planning process; awareness and education programs and strategies for the fire student, business, and industry.

FIRE 132 Fundamentals of Emergency Management (3)  
3 hours lecture  
Transfer acceptability: CSU  
Emergency management systems related to career opportunities, tasks, function and responsibilities of the emergency management program director; the role in mitigation, preparedness, response and recovery. History of the civil defense department post World War II and the current emergency management system.

FIRE 133 Disaster Mitigation (3)  
3 hours lecture  
Transfer acceptability: CSU  
Knowledge and skills required to develop programs to reduce losses from future emergencies caused by natural and man-made disasters.

FIRE 142 Fire Ethics (3)  
3 hours lecture  
Transfer acceptability: CSU  
Fire ethics will be studied from the perspective of a professional firefighter. Students will examine and explore ethical and moral dilemmas that will confront Firefighters/EMS personnel throughout their career.

FIRE 145 Fire Fighting Tactics and Strategy (3)  
3 hours lecture  
Transfer acceptability: CSU  
Review of fire chemistry, equipment, and manpower; basic fire fighting tactics and strategy; methods of attack; preplanning fire problems.

FIRE 146 Wildland Fire Control I (3)  
2½ hours lecture  
Recommended preparation: FIRE 100  
Transfer acceptability: CSU  
Provides employed firefighters or fire service majors with a fundamental knowledge of the factors affecting wildland fire prevention, fire behavior, and control techniques.

FIRE 148 Fundamentals of Fire Protection Chemistry (3)  
3 hours lecture  
Transfer acceptability: CSU  
Provides the student with fundamental information and knowledge of the physical and chemical characteristics of matter, fire, hazardous materials, and basic extinguishment theory.

FIRE 151 Fire Fighter I Academy (20)  
10 hours lecture - 30 hours laboratory  
Prerequisite: A minimum grade of ‘C’ in EME 106 or certification as an EMT I, and admission to the Fire Fighter I Academy program  
Transfer acceptability: CSU  
A 656 hour fire fighter academy course which will meet the requirements mandated by the California Office of State Fire Marshal for Certified Fire Fighter I training. Covers fire ground procedures, tactics, strategy, safety methods, fire dynamics, equipment usage and deployment, and subject material pertaining to the role of fire fighters within the fire service.

FIRE 152 Driver Operator Academy (4.5)  
2 hours lecture - 7½ hours laboratory  
Recommended preparation: FIRE 100 and 151  
Transfer acceptability: CSU  
Comprehensive instruction in all aspects of operating fire apparatus. Includes fire apparatus construction and maintenance; driving laws; safe driving practices; fire pump theory; fire pump service testing; hydraulic laws and formulas as applied to the fire service; developing effective fire streams; identification and use of the various hose, nozzles, and fittings used in the fire service; water supply; nationally recognized standards for fire apparatus and equipment.

FIRE 153 Fire Prevention 1A (2.5)  
2½ hours lecture  
Transfer acceptability: CSU  
Basic fire fighting skills needed to begin a career in the fire service. Meets State Fire Marshal requirements.

FIRE 154 Fire Command 1A (2.5)  
2½ hours lecture  
Transfer acceptability: CSU  
Instruction and simulation time pertaining to the initial decision and action processes at a working fire. Topics include the fire officer, fire behavior, fireground resources, operations, and management.

FIRE 155 Fire Prevention 1B (2.5)  
2½ hours lecture  
Transfer acceptability: CSU  
A descriptive analysis in tactics and strategies and scene management principles for incidents involving hazardous materials. Emphasizes identification and hazard mitigation, decontamination, protective clothing, environmental concerns, and legal issues.

FIRE 156 Fire Command 1B (2.5)  
2½ hours lecture  
Transfer acceptability: CSU  
A broad, technical overview of fire prevention codes and ordinances, inspection practices, and key hazards.

FIRE 180 Fire Prevention 1A (2.5)  
2½ hours lecture  
Transfer acceptability: CSU  
The relationship of life safety codes and requirements to building construction principles and building occupancy classifications. The engineering solutions to various hazards, enforcing the solution, and public relations as affected by fire prevention in handling complaints.
COURSE OFFERINGS

FL 107B Elementary Luiseño IB
3 hours lecture
Recommended preparation: FL/AIS 107B
Note: Cross listed as AIS 107B
Transfer acceptability: CSU; UC

This elementary course is a continuation of AIS 107A and review of the phonology, morphology, syntax and grammar of the Luiseño language, with continued emphasis on culturally relevant terminology leading to increased proficiency in expressing basic concepts both orally and in writing.

FL 108A Elementary Luiseño IIA
3 hours lecture
Recommended preparation: FL/AIS 107B
Note: Cross listed as AIS 108A
Transfer acceptability: CSU; UC

This course is an elementary review of grammar, composition, and continued oral practice.

FL 197 Foreign Languages Topics
(5-5)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU

Topics in Foreign Languages. See Class Schedule for specific topic offered. Course title will designate subject covered.

French (FREN)

Contact the World Languages Department for further information.
(760) 744-1150, ext. 2390
Office: H-201

Associate in Arts Degrees -
AA Degree requirements are listed in Section 6 (green pages).
• French

Certificates of Achievement -
Certificate of Achievement requirements are listed in Section 6 (green pages).
• French

French

This degree will provide required course work for students majoring in French. In addition, completing the course work will meet the foreign language competency requirements at many colleges and universities. Students may receive humanities credit on general education patterns for both the CSU and UC systems. It will also provide instruction for students seeking foreign language skills for personal development.

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

<table>
<thead>
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<th>Program Requirements</th>
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<td>FREN 102 French II</td>
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<td>FREN 201 French III</td>
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<tr>
<td>FREN 202 French IV</td>
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TOTAL UNITS 20

Recommended Electives: FREN 140, 215

COURSE OFFERINGS

For students who have completed foreign language course work at the high school level and need clarification regarding placement in college level course work, contact the Counseling Center. Universities have varying policies regarding the granting of transfer credit when there is a combination of high school and college level course work.