

**FASH 149 Fine Dressmaking** (3)  
 1½ hours lecture - 4½ hours laboratory  
**Prerequisite:** A minimum grade of 'C' in FASH 136  
**Corequisite:** FASH 165  
**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 165 Sewing Laboratory** (1)  
 3 hours laboratory  
**Corequisite:** FASH 135 or 136  
**Note:** Pass/No Pass grading only  
**Transfer acceptability:** CSU  
 Enhancement of sewing skills by supervised practice and active participatory experience in individual study. Content to be determined by the need of the student in agreement and under observation and direction of the instructor.

**FASH 166 Tailoring Laboratory** (.5)  
 1½ hours laboratory  
**Corequisite:** FASH 137  
**Recommended Preparation:** FASH 135  
**Transfer acceptability:** CSU  
 Enhancement of tailoring skills by supervised practice and active participatory experience in individual study. Content to be determined by the need of the student in agreement and under observation and direction of the instructor.

**FASH 167 Pattern-Making Laboratory** (.5)  
 1½ hours laboratory  
**Corequisite:** FASH 139 or 141  
**Transfer acceptability:** CSU  
 Enhancement of pattern-making skills by supervised practice and active participatory experience in individual study. The specific content to be determined by the need of the student in agreement and under observation and direction of the instructor.

**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 Technology - Emergency Management
- Fire Technology - General

### Certificates of Achievement -

Certificate of Achievement requirements are listed in Section 6 (green pages).

- Fire Technology - Emergency Management
- Fire Technology - General

**PROGRAMS OF STUDY****Fire Technology - Emergency Management**

Prepares student for career in Emergency Management.

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

Program Requirements		Units
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
<b>Electives (Select 12 units)</b>		
FIRE 51	Fire Academy Preparation	2
FIRE 71	Trench Rescue	0.5
FIRE 72	Swiftwater Rescue	0.5
FIRE 98	Fire Service Skills	0.5 - 5
FIRE 101	Firefighter Safety	3
FIRE 118	Fire Prevention Technology	3
FIRE 125	Fire Apparatus and Equipment	3
FIRE 130	Fire Protection Equipment and Systems	3
FIRE 142	Fire Ethics	3
FIRE 145	Fire Fighting Tactics and Strategy	3
FIRE 151	Fire Fighter I Academy	20
FIRE 152	Driver Operator Academy	4.5
FIRE 160	Wildland Fire Control I	3
FIRE 165	Fundamentals of Fire Protection Chemistry	3
FIRE 168	Volunteer Fire Fighter Academy	4
FIRE 175	Fire Command IA	2.5
FIRE 180	Fire Prevention IA	2.5
FIRE 176	Fire Command IB	2.5
FIRE 181	Fire Prevention IB	2.5
FIRE 185	Fire Management I	2.5
FIRE 190	Fire Investigation IA	2.5
FIRE 193	Fire Instructor IA	2.5
FIRE 194	Fire Instructor IB	2.5
FIRE 197A	Fire Technology General Topics	0.5 - 5
FIRE 197B	Fire Technology Command Topics	0.5 - 5
FIRE 197C	Fire Technology Field Topics	0.5 - 5
<b>TOTAL UNITS</b>		<b>30</b>

**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**

Program Requirements		Units
FIRE 100	Fire Protection Organization	3
FIRE 101	Firefighter Safety	3
FIRE 118	Fire Prevention Technology	3
FIRE 120	Building Construction for Fire Protection	3
FIRE 130	Fire Protection Equipment and Systems	3
FIRE 165	Fundamentals of Fire Protection Chemistry	3
<b>Elective Courses (Select 15 units)</b>		
FIRE 51	Fire Academy Preparation	2
FIRE 71	Trench Rescue	.5
FIRE 72	Swiftwater Rescue	.5
FIRE 98	Fire Service Skills	.5-5
FIRE 115	Hazardous Materials I	3
FIRE 125	Fire Apparatus and Equipment	3
FIRE 131	Emergency Preparedness	3

FIRE 132	Fundamentals of Emergency Management	3
FIRE 133	Disaster Mitigation	3
FIRE 142	Fire Ethics	3
FIRE 145	Fire Fighting Tactics and Strategy	3
FIRE 151	Fire Fighter I Academy	20
FIRE 152	Driver Operator Academy	4.5
FIRE 160	Wildland Fire Control I	3
FIRE 168	Volunteer Fire Fighter Academy	4
FIRE 175	Fire Command IA	2.5
FIRE 176	Fire Command IB	2.5
FIRE 180	Fire Prevention IA	2.5
FIRE 181	Fire Prevention IB	2.5
FIRE 185	Fire Management I	2.5
FIRE 190	Fire Investigation IA	2.5
FIRE 193	Fire Instructor IA	2.5
FIRE 194	Fire Instructor IB	2.5
FIRE 197A	Fire Technology General Topics	.5-5
FIRE 197B	Fire Technology Command Topics	.5-5
FIRE 197C	Fire Technology Field Topics	.5-5
EME 106	Emergency Medical Tech Basic (Lecture)	6
CE 100	Cooperative Education	1-4
<b>TOTAL UNITS</b>		<b>33</b>

**COURSE OFFERINGS**

Due to safety concerns, as well as minimum requirements by regulatory agencies, potential students should be aware that some courses may require participants to demonstrate physically demanding skills, along with both verbal and nonverbal communication skills.

Courses numbered under 100 are not intended for transfer credit.

**FIRE 51 Fire Academy Preparation (2)**

1 hour lecture - 3 hours laboratory

**Note:** May not be taken as an audit

Prepares individuals for the demanding requirements of the Fire Academy. Also prepares students for the Physical Ability test required to pass the North County Regional Fire Test. The test is broken down into components so that the student can more skillfully pass the exam. There will be time spent on application preparation and interview skills.

**FIRE 71 Trench Rescue (.5)**

1½ hours laboratory

**Note:** Pass/No Pass grading only; may not be taken as an audit

Comprehensive instruction with extensive hands-on application of the techniques necessary to safely effect a rescue from an excavation or trenching cave-in. Topics include: critical considerations while responding to trenching emergencies; establishing and operating the Incident Command System; evaluation of cave-in scenes; specialized tool usage; shoring techniques; below grade safety procedures; patient packaging; and patient removal techniques. Upon successful completion of the course, students will receive a California State Fire Marshal certificate.

**FIRE 72 Swiftwater Rescue (.5)**

1½ hours laboratory

**Note:** Pass/No Pass grading only; may not be taken as an audit

This course is intended for the training of fire service personnel in water rescue techniques. Topics include: Swiftwater rescue, submerged vehicles, drownings, use of engine/truck company equipment for water rescue, use of rafts and boats, and underwater search and recovery. Upon completion of the course, students will receive a California State Fire Marshal certificate.

**FIRE 98 Fire Service Skills (.5,1,1.5,2,2.5,3,3.5,4,4.5,5)**

½, 1, 1½, 2, 2½, 3, 3½, 4, 4½, or 5 hours lecture - 1½, 2, 3, 4½, 6, 7½, 9, 10½, 12, 13½, or 15 hours laboratory

**Note:** Pass/No Pass grading only; may not be taken as an audit

Covers fire service basic topics in the classroom for review and manipulative training for skills maintenance. All subjects will have to do with the duties and responsibilities of the fire services in order to maintain a state of readiness.

- FIRE 100 Fire Protection Organization (3)**  
 3 hours lecture  
**Transfer acceptability:** CSU  
 Provides 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.
- FIRE 101 Firefighter Safety (3)**  
 3 hours lecture  
**Prerequisite:** A minimum grade of 'C' in FIRE 100  
**Transfer acceptability:** CSU  
 Encompasses the many dangers associated with the job of a firefighter. Introduces the National Fallen Firefighters Foundation, Firefighter Life Safety Initiatives, and the Everyone Goes Home Program.
- 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  
**Prerequisite:** A minimum grade of 'C' in FIRE 100  
**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  
**Prerequisite:** A minimum grade of 'C' in FIRE 131  
**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  
**Prerequisite:** A minimum grade of 'C' in FIRE 131  
**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  
**Prerequisite:** A minimum grade of 'C' in FIRE 100  
**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 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 160 Wildland Fire Control I (3)**  
 3 hours lecture  
**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 165 Fundamentals of Fire Protection Chemistry (3)**  
 3 hours lecture  
**Recommended preparation:** FIRE 100  
**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 168 Volunteer Fire Fighter Academy (4)**  
 2 hours lecture - 6 hours laboratory  
**Transfer acceptability:** CSU  
 Basic fire fighting skills needed to begin a career in the fire service. Meets State Fire Marshal requirements.

- FIRE 175 Fire Command IA** (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 176 Fire Command IB** (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 180 Fire Prevention IA** (2.5)  
2½ hours lecture  
**Transfer acceptability:** CSU  
A broad, technical overview of fire prevention codes and ordinances, inspection practices, and key hazards.
- FIRE 181 Fire Prevention IB** (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.
- FIRE 185 Fire Management I** (2.5)  
2½ hours lecture  
**Transfer acceptability:** CSU  
Prepares or enhances the first line supervisor's ability to supervise subordinates. It introduces key management concepts and practices utilized, and includes discussions about decision making, time management, leadership styles, personnel evaluations, and counseling guidelines.
- FIRE 190 Fire Investigation IA** (2.5)  
2½ hours lecture  
**Transfer acceptability:** CSU  
Provides the participants with an introduction and basic overview of fire scene investigation. The focus of the course is to provide information on fire scene indicators and to determine the fire's origin.
- FIRE 193 Fire Instructor IA** (2.5)  
2½ hours lecture  
**Transfer acceptability:** CSU  
The first of a two-course series. Topics include the Occupational Analysis, course outline, concepts of learning, levels of instruction, behavioral objectives, lesson plan development, psychology of learning, and instructor evaluation. Student teaching demonstrations are required of all.
- FIRE 194 Fire Instructor IB** (2.5)  
2½ hours lecture  
**Transfer acceptability:** CSU  
The second in a two-course series. Topics include preparing course outlines, establishing levels of instruction, constructing behavioral objectives and lesson plans, developing instructional aids, fundamentals of testing and measurements, test planning, evaluation techniques and tools. Student teaching demonstrations are required of all.
- FIRE 197A Fire Technology General 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 Fire technology General. See Class Schedule for specific topic offered. Course title will designate subject covered.

- FIRE 197B Fire Technology Command 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 Fire Technology Command. See Class Schedule for specific topic offered. Course title will designate subject covered.

- FIRE 197C Fire Technology Field 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 Fire Technology Field. See Class Schedule for specific topic offered. Course title will designate subject covered.

## Foreign Languages (FL)

See Arabic, Chinese, French, German, Italian, Japanese, Spanish

Contact the World Languages Department for further information about the Foreign Languages Topic courses.

(760) 744-1150, ext. 2390

Office: F-5

Contact the American Indian Studies Department for further information about the Luiseno and Nahuatl courses.

(760) 744-1150, ext. 2405

Office: MD-140

## COURSE OFFERINGS

- FL 107A Elementary Luiseño IA** (3)  
3 hours lecture  
**Note:** FL 107A + 107B correspond to one year of high school foreign language  
**Note:** Cross listed as AIS 107A  
**Transfer acceptability:** CSU; UC  
This elementary level course is a study of the fundamentals of the Luiseño language, one of the four indigenous languages of San Diego County. This course will include a survey of Luiseño language phonology, morphology, syntax and grammar with special emphasis on culturally relevant terminology.
- FL 107B Elementary Luiseño IB** (3)  
3 hour lecture  
**Recommended preparation:** FL/AIS 107A  
**Note:** FL 107A + 107B correspond to one year of high school foreign language  
**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)  
3 hours lecture  
**Recommended preparation:** FL/AIS 107B  
**Note:** FL 108A + 108B correspond to two years of high school foreign language.  
**Note:** Cross listed as AIS 108A  
**Transfer acceptability:** CSU; UC  
This course is an elementary review of grammar, composition, and continued oral practice.
- FL 108B Elementary Luiseño IIB** (3)  
3 hours lecture  
**Recommended preparation:** FL/AIS 108A  
**Note:** FL 108A + 108B correspond to two years of high school foreign language.  
**Note:** Cross listed as AIS 108B  
**Transfer acceptability:** CSU; UC  
This elementary course is a continued review of grammar, composition, and oral practice.