

PROGRAMS OF STUDY

Entertainment Technology

This program will prepare students for employment in the fields of entertainment technologies at entry level. The areas of potential employment include theme parks, casinos, cruise ships, concerts, gallery display and design, event installations, live event technical support, and theatre venues providing non-theatre related events. Basic rigging and production safety will be a component of this program.

CERTIFICATE OF ACHIEVEMENT*

Program Requirements		Units
CSIS 108	Hardware and O.S. Fundamentals	3
ENTT 100	Introduction to Entertainment Technology	1
ENTT/RTV 103	Introduction to Audio-Visual Systems	3
ENTT/TA 105	Introduction to Technical Theatre	2.5
ENTT/TA 107	Lighting for Stage and Television	3
ENTT/TA 112	Entertainment Audio Production	3
ENTT/RTV 130	Radio Production	3
TA 197D	Stage Crew Workshop	2
TA 297 or	Experimental Topics in Theatre	
ENTT/RTV 294B	Television Internships/Production	1
Electives (Select 11 units)		
ENTT/RTV 294B	Television Internships/Production	1-3
FASH 126	Fashion Show Presentation	1
FASH 135	Basic Sewing Construction	3
FASH 139	Pattern Making/Fashion Design	3
RTV 100	Introduction to Radio/TV	3
RTV 230	Digital Audio with Pro Tools	3
TA 106	Elementary Stage Costume	3
TA/ENTT 108	Stagecraft and Scene Design for Theatre and TV	3
TA 109	Elementary Stage Make-Up	3
TA 111	Technical Theatre Production	.5
TA 170	Computer Aided Drafting for Theatre	3
TA 297	Experimental Topics in Theatre	1-3
WELD 100	Welding I	3
TOTAL UNITS		32.5

Entertainment Technology Certificate of Achievement also listed in Radio and Television and in Theatre Arts.

*Entertainment Technology Certificate of Achievement pending approval by the California Community Colleges System Office at the time of catalog publication.

COURSE OFFERINGS**ENTT 100 Introduction to Entertainment Technology (1)**

1 hour lecture

Transfer acceptability: CSU

An introduction to the live entertainment technology industry, including: working methods, processes, equipment and facilities for theatre, opera, dance, concert productions, theme parks, themed retail, cruise ship venues, and corporate special events. Related current events and career opportunities will be discussed. Attendance at several of the type of events listed above is required.

ENTT 103 Introduction to Audio-Visual Systems (3)

6 hours lecture/laboratory

Note: Cross listed as RTV 103

Transfer acceptability: CSU

Provides a theoretical and practical foundation in temporary and permanent video and audio systems technology for entertainment applications such as theatre, corporate events, hotel/ballroom A/V work, theme parks, museums and other related applications.

ENTT 105 Introduction to Technical Theatre (2.5)

5 hours lecture/laboratory

Note: Cross listed as TA 105

Transfer acceptability: CSU; UC

A general survey of technical theatre including stagecraft, lighting, sound design, costuming, make up, production organization, business management, and promotion. Course will include practical skills in all areas.

ENTT 107 Lighting for Stage and Television (3)

2 hours lecture-3 hours laboratory

Note: Cross listed as TA 107

Prerequisite: ENTT 105/TA 105

Transfer acceptability: CSU; UC

Techniques, theories, and procedures necessary to develop lighting and lighting effects integrated into film, television, and theatre productions. Practical experience in college productions.

ENTT 108 Stagecraft and Scene Design for Theatre and Television (3)

2 hours lecture-3 hours laboratory

Note: Cross listed as TA 108

Prerequisite: ENTT 105/TA 105

Transfer acceptability: CSU; UC

Technical practices and organization of production for theatre, film, and television. Practice in drafting, designing, and construction of scenery for college productions.

ENTT 112 Entertainment Audio Production (3)

2 hours lecture-3 hours laboratory

Note: Cross listed as TA 112

Transfer acceptability: CSU

Audio applications and technology for entertainment based uses. To understand set up, operation, troubleshooting techniques with audio signal chain.

ENTT 120 Digital Television Production (3)

6 hours lecture/laboratory

Note: Cross listed as RTV 120

Transfer acceptability: CSU

The terminology, practices, and aesthetic considerations of visual and sound productions. Principles of producing, staging, shot composition, directing, blocking, graphics, studio techniques, and lighting for television.

ENTT 130 Radio Production (3)

6 hours lecture/laboratory

Note: Cross listed as RTV 130

Transfer acceptability: CSU

Techniques and theories of audio production in the preparation of radio programs. Use of audio mixing and recording equipment, editing and dubbing, microphone techniques and program construction. Several programs produced by the student will be broadcast on radio station KKSM.

ENTT 294B Television Internships/Production (1,2,3)

3, 6, or 9 hours laboratory

Note: Cross listed as RTV 294B; May be taken 4 times

Transfer acceptability: CSU

Work on advanced television production including individual research, work on college produced programs, or internships at local broadcast stations, cable companies, and other communications facilities.

Family and Consumer Sciences (FCS)

Contact the Design and Consumer Education Department for further information, (760) 744-1150, ext. 2349. For transfer information, consult a Palomar College counselor.

Associate in Arts degree requirements, Certificate of Achievement requirements, and Certificate of Proficiency requirements are listed in Section 6 (green pages) of the catalog.

PROGRAM OF STUDY

Family and Consumer Sciences-General

For students desiring to improve their skills as home managers or to enter careers in social services or related fields requiring knowledge of family management skills.

Students should be aware that not all Family and Consumer Sciences, Fashion, and Interior Design courses are offered every semester. See Class Schedule or Department Chairperson for additional information.

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements		Units
FCS 101	Human Systems Management	3
FCS 105	Family Dynamics	3
FCS/BUS 136	Personal Finance	3
FCS/HE 165	Fundamentals of Nutrition	3
FASH 110	Textiles	3
FASH 135	Basic Sewing Construction	3
ID 100	Interior Design	3
CHDV 100 or PSYC 110	Child Development Developmental Psychology – Child Through Adult	3
TOTAL UNITS		24

Recommended Electives: It is recommended that candidates for the certificate and transfer students take one or more of the following courses: FCS 197, 295; FASH 100, 105, 136; ID 105, 115; ART 120; CHEM 100; CHDV 145; CE 100; PSYC 100; SOC 100; SPCH 100

Students planning to transfer to San Diego State University should seek counseling from the director of the Family and Consumer Sciences program.

COURSE OFFERINGS

Courses numbered under 50 are non-degree courses.
Courses numbered under 100 are not intended for transfer credit.

FCS 20 Residential Services Specialist I (3)
3 hours lecture

Prepares students for working in or operating their own residential care home for the developmentally disabled. When taken along with FCS 21, fulfills the requirements for the Residential Services Specialist Certificate which is required of home care operators by the State Department of Developmental Services.

FCS 21 Residential Services Specialist II (3)
3 hours lecture

Prepares students for working in or operating their own residential care home for the developmentally disabled. When taken along with FCS 20, fulfills the requirements for the Residential Services Specialist Certificate which is required of care home operators by the State Department of Developmental Services.

FCS 101 Human Systems Management (3)
3 hours lecture

Transfer acceptability: CSU
Principles of managing human systems through the techniques of goal setting, decision making, communication, and time and energy structuring. Emphasizes problem solving skills transferable to management of education, residence, or work environments.

FCS 105 Family Dynamics (3)
3 hours lecture

Transfer acceptability: CSU
Explores the elements which lead to successful adjustment in family living. Dynamics of love, communication, and sexuality are examined as part of the developmental process of family life.

FCS 110 Microbiology and Foods (3)
2 hours lecture-2 hours lecture/laboratory

Note: Cross listed as MICR 110
Transfer acceptability: CSU
Introduction to the principles of microbiology with an emphasis on foodborne pathogens. Students will explore biological factors and controls relating to reproduction of microorganisms and the effects on public health. This course does not meet microbiology requirement for pre-health students.

FCS 136 Personal Finance (3)
3 hours lecture

Note: Cross listed as BUS 136
Transfer acceptability: CSU
A study of the effective management of personal and family resources. Budgeting, buying of goods and services, banking, credit, taxation, investing, insurance, home ownership, estate planning, and consumer protection.

FCS 150 Cultural Nutrition (3)
3 hours lecture

Transfer acceptability: CSU
Regional, ethnic, cultural, religious, historical, and social influences on food patterns. Influence of socio-economic class, gender, and age on diet, health, and disease.

FCS 165 Fundamentals of Nutrition (3)
3 hours lecture

Note: Cross listed as HE 165
Transfer acceptability: CSU; UC – FCS 165, FCS 185, BIOL 185, HE 165 combined: maximum credit, one course; CAN FCS 2
The study of how food nourishes the body. Investigation of diet fads and fallacies, eating for fitness, and planning meals for optimum health throughout the life cycle.

FCS 170 Nutrition: Eating Disorders and Obesity (3)
3 hours lecture

Transfer acceptability: CSU
Review of etiology, incidence, socio economic influences, pathogenesis, and treatments. Techniques studied include modification of diet, activity, and behavior. Of interest to those needing vocational information for work with anorexics, bulimics, and the obese.

FCS 185 Science of Human Nutrition (3)
3 hours lecture

Note: Cross listed as BIOL 185
Transfer acceptability: CSU; UC – FCS 165, FCS 185, BIOL 185, HE 165 combined: maximum credit, one course
Science of food, nutrients, and other substances therein; processes by which the organism ingests, digests, absorbs, transports, utilizes, and excretes food substances. Emphasis on biological, chemical, and physiological implications to human nutrition.

FCS 197 Family and Consumer Sciences Workshop (.5-3)

Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture, laboratory, or lecture/laboratory may be scheduled by the department. Refer to Class Schedule.
Note: May be taken 3 times
Transfer acceptability: CSU
Materials relative to the field of Family and Consumer Sciences.

FCS 295 Directed Study in Family and Consumer Sciences (1,2,3)

3, 6, or 9 hours laboratory
Prerequisite: Approval of project or research by department chairperson/director
Note: May be taken 4 times
Transfer acceptability: CSU
Independent study for students who have demonstrated skills and/or proficiencies in Family and Consumer Sciences 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.

Fashion (FASH)

Contact the Design and Consumer Education Department for further information, (760) 744-1150, ext. 2349. For transfer information, consult a Palomar College counselor.

Associate in Arts degree requirements, Certificate of Achievement requirements, and Certificate of Proficiency requirements are listed in Section 6 (green pages) of the catalog.

PROGRAMS OF STUDY

Fashion Design/Entry-Level

This certificate is intended to prepare students for entry-level positions in fashion design. It is intended to be completed in one year of full-time attendance at Palomar College. Employment might include seamstress, alterationist, assistant designer, and sample cutter.

CERTIFICATE OF ACHIEVEMENT

Program Requirements		Units
FASH 100	Fashion Industry	3
FASH 105	Fashion Analysis and Clothing Selection	3
FASH 110	Textiles	3
FASH 135	Basic Sewing Construction	3
FASH 136	Advanced Sewing Construction	3
FASH 139	Pattern Making/Fashion Design	3
FASH 145	Fashion Illustration and Presentation	3
FASH 148	Digital Design for Fashion	3
FASH 195	Field Studies in Fashion	2
CE 150	Internship	2-3
TOTAL UNITS		28 - 29

Recommended Elective: FASH 146

Fashion Design/Technical

Courses required for employment in the fashion industry; specifically in pattern making, sample work, fashion design, and illustration.

Students should be aware that not all Fashion courses are offered every semester. See Class Schedule or Department Chairperson for additional information.

A.A. DEGREE MAJOR

Program Requirements		Units
BMGT 105 or	Small Business Management	
BUS 155	Marketing	3
FASH 100	Fashion Industry	3
FASH 105	Fashion Analysis/Clothing Selection	3
FASH 110	Textiles	3
FASH 130	History of Fashion/Costume	3
FASH 135	Basic Sewing Construction	3
FASH 136	Advanced Sewing Construction	3
FASH 139	Pattern Making/Fashion Design	3
FASH 141	Adv Patternmaking/Fashion Design	3
FASH 145	Fashion Illustration/Presentation	3
FASH 146	Computer Aided Design (CAD) for Fashion	3
FASH 148	Digital Design for Fashion	3
FASH 165	Sewing Laboratory	1
FASH 166	Tailoring Laboratory	.5
FASH 167	Pattern-Making Laboratory	.5
FASH 168	CAD Laboratory	.5
FASH 195	Field Studies in Fashion	2
CE 150	Internship	2-3
TOTAL UNITS		42.5 - 43.5

Recommended Electives: FASH 125/BUS 145, FASH 132, 147, 170

Fashion Merchandising/Entry-Level

This certificate is intended to prepare students for entry-level positions in fashion merchandising, such as sales associate, display stylist, and assistant manufacturer's representative. It is intended to be completed in one year of full-time attendance at Palomar College.

CERTIFICATE OF ACHIEVEMENT

Program Requirements		Units
FASH 100	Fashion Industry	3
FASH 105	Fashion Analysis/Clothing Selection	3
FASH 110	Textiles	3
FASH 115	Visual Merchandising I	3
FASH 125/		
BUS 145	Retailing/Promotion	3
FASH 148	Digital Design for Fashion	3
FASH 195	Field Studies in Fashion	2
CE 150	Internship	2-3
TOTAL UNITS		22 - 23

Recommended Electives: FASH 130, 155

Fashion Merchandising Sales Associate

This certificate is intended to prepare students for immediate employment in the fashion industry as a sales associate. It is intended to be completed in one semester.

CERTIFICATE OF PROFICIENCY

Program Requirements		Units
FASH 100	Fashion Industry	3
FASH 105	Fashion Analysis/Clothing Selection	3
FASH 115	Visual Merchandising I	3
TOTAL UNITS		9

Fashion Merchandising/Technical

The Fashion Merchandising A.A. degree program provides students with an option for a career or the requisite foundation for transfer to a four-year college or university. Careers might include assistant buyer, assistant department manager, small store owner, visual merchandiser, advertising consultant, fashion coordinator, promotion coordinator, sales associate, or manufacturer's sales representative.

Students should be aware that not all Fashion courses are offered every semester. See Class Schedule or Department Chairperson for additional information.

A.A. DEGREE MAJOR

Program Requirements		Units
BMGT 105 or	Small Business Management	
BUS 155	Marketing	3
FASH 100	Fashion Industry	3
FASH 105	Fashion Analysis/Clothing Selection	3
FASH 110	Textiles	3
FASH 115	Visual Merchandising I	3
FASH 120	Fashion Buying/Management	3
FASH 125/		
BUS 145	Retailing/Promotion	3
FASH 126	Fashion Show Promotion	1
FASH 130	History of Fashion/Costume	3
FASH 145	Fashion Illustration and Presentation	3
FASH 148	Digital Design for Fashion	3
FASH 195	Field Studies in Fashion	2
CE 150	Internship	2-3
TOTAL UNITS		35 - 36

Recommended Electives: FASH 116, 132, 155; BUS 155

COURSE OFFERINGS

Courses numbered under 100 are not intended for transfer credit.

- FASH 90 Design Collection** (1)
2 hours lecture/laboratory
Recommended preparation: At least one of the following courses: FASH 135, 136, 139, 145
Note: May be taken 3 times
Lab course for fashion show line designers in any clothing category of women's, men's, teen's, and children's wear.
- FASH 100 Fashion Industry** (3)
3 hours lecture
Transfer acceptability: CSU
A study of the background and technology of the clothing industry. Includes contemporary problems of production and distribution; emphasis is on career options in the fashion industry.
- FASH 105 Fashion Analysis and Clothing Selection** (3)
3 hours lecture
Transfer acceptability: CSU; CAN FCS 20
Examines fashion as it relates to wardrobe planning, coordination, and standards of quality garment construction.
- FASH 110 Textiles** (3)
3 hours lecture-1 hour laboratory
Transfer acceptability: CSU; CAN FCS 6
Fibers, yarn, fabric construction, and finishes as related to selection, use, and care.
- FASH 115 Visual Merchandising I** (3)
3 hours lecture-1 hour laboratory
Transfer acceptability: CSU
Visual merchandise presentation including window and interior displays, elements of design, principles of design, fixtures, lighting, and other display materials.
- FASH 116 Visual Merchandising II** (3)
3 hours lecture-1 hour laboratory
Transfer acceptability: CSU
Advanced visual design and application. Hands on experience in merchandise presentation and display; basic drafting techniques and drafting tools related to store planning and visual merchandising.
- FASH 120 Fashion Buying/Management** (3)
3 hours lecture
Transfer acceptability: CSU
Principles of fashion buying utilizing practical applications and case studies. Topics covered include merchandise planning and selection, resource relations, legal trade regulations, pricing, and merchandise management and control.
- FASH 125 Retailing/Promotion** (3)
3 hours lecture
Note: Cross listed as BUS 145
Transfer acceptability: CSU
Principles and techniques of retailing, promotion, and advertising pertinent to retail policies and procedures. Includes psychological aspect of retailing. Working foundation for those looking forward to employment in this area.
- FASH 126 Fashion Show Presentation** (1)
2 hours lecture/laboratory
Note: May be taken 2 times
Transfer acceptability: CSU
Applied study and practical application of fashion show and special event production and promotional skills. Strategies and techniques studied include organizing, advertising, staging, timing, and coordinating models and their clothing and accessories. Produce the Fashion Merchandising/Fashion Design program's annual fashion show.
- FASH 130 History of Fashion/Costume** (3)
3 hours lecture
Transfer acceptability: CSU
Styles of dress from the Paleolithic period to the present as depicted in art forms and other media. Focuses on Western European costume.
- FASH 131 Elementary Stage Costume and Make Up** (3)
2 hours lecture-3 hours laboratory
Transfer acceptability: CSU
Basic theories, techniques, and procedures of costume production and make up application for stage, film, and television. Practical training in college productions.
- FASH 132 Costume and Culture** (3)
3 hours lecture
Transfer acceptability: CSU; UC
Patterns of dress and human adornment of three cultures: African, Asian/Pacific Islanders and the Americas. Socio-cultural developments in dress. Clothing images and meaning in a contemporary multicultural American society.
- FASH 135 Basic Sewing Construction** (3)
6 hours lecture/laboratory
Corequisite: FASH 165
Note: May be taken 2 times
Transfer acceptability: CSU
Traditional construction techniques. Quality garments will be produced utilizing new speed techniques as well as hand detailing.
- FASH 136 Advanced Sewing Construction** (3)
6 hours lecture/laboratory
Prerequisite: FASH 135
Corequisite: FASH 165
Note: May be taken 2 times
Transfer acceptability: CSU
Sewing construction techniques beyond basic level, with increased difficulty in pattern assembly.
- FASH 137 Tailoring** (3)
6 hours lecture/laboratory
Corequisite: FASH 166
Recommended preparation: FASH 135 and FASH 136
Note: May be taken 2 times
Transfer acceptability: CSU
Clothing principles emphasizing techniques in handling difficult fabrics. Principles of tailoring; planning and construction of suits and coats.
- FASH 139 Pattern Making/Fashion Design** (3)
6 hours lecture/laboratory
Corequisite: FASH 167
Recommended preparation: FASH 135
Note: May be taken 2 times
Transfer acceptability: CSU
Pattern making through the flat pattern design method. Attention is given to design analysis and interpretation of design; application of design method in the development, presentation, and construction of original garments.
- FASH 141 Advanced Pattern Making/Fashion Design** (3)
6 hours lecture/laboratory
Prerequisite: FASH 139
Corequisite: FASH 167
Recommended preparation: FASH 135
Note: May be taken 4 times
Transfer acceptability: CSU
Advanced design skills for the fashion industry. Examination of one method of pattern development: draping. Creation of patterns to drape and fit on a dress-maker's form.

- FASH 145 Fashion Illustration and Presentation (3)**
 3 hours lecture-1 hour laboratory
Transfer acceptability: CSU
 Fundamentals in drawing of fashion figures and in illustration of fashion garments. Development of individual skills and style in graphic presentation.
- FASH 146 Computer Aided Design (CAD) for Fashion (3)**
 6 hours lecture/laboratory
Corequisite: FASH 168
Note: May be taken 2 times
Transfer acceptability: CSU
 An introduction to computer aided pattern making for fashion using CAD technology. Hands-on experience with CAD technology to include the following operations: preparing and editing patterns; storage and retrieval of patterns, production of fashion industry patterns.
- FASH 147 Advanced Computer Aided Design (CAD) for Fashion (3)**
 6 hours lecture/laboratory
Prerequisite: FASH 146
Corequisite: FASH 168
Note: May be taken 2 times
Transfer acceptability: CSU
 Advanced theory and hands-on operation of CAD systems for fashion pattern making including pattern making blocks, grading, and marker making. Emphasis is placed on productivity and manufacturability for the fashion design industry.
- FASH 148 Digital Design for Fashion (3)**
 6 hours lecture/laboratory
Note: May be taken 2 times
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 155 World of Fashion (2,3)**
 4 or 6 hours lecture/laboratory
Note: Fee charged; may be taken 4 times
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 FASH 136
Note: Credit/No Credit grading only; may be taken 2 times
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
Note: May be taken 4 times
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 FASH 141
Note: May be taken 4 times
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 FASH 147
Note: May be taken 4 times
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)**
 6 hours lecture/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 195 Field Studies in Fashion (2)**
 4 hours lecture/laboratory
Note: May be taken 2 times
Transfer acceptability: CSU
 Fashion industry on site: process of designing, manufacturing, marketing, and merchandising of fashion apparel and related accessories.
- FASH 196A Special Problems in Computer Aided Pattern Drafting (1,2,3)**
 3, 6, or 9 hours laboratory
Note: May be taken 4 times
Transfer acceptability: CSU
 Advanced research project using AutoCAD and BetaCAD software. Content to be determined by the need of the student under signed contract with the instructor.
- 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, laboratory, or lecture/laboratory may be scheduled by the department. Refer to Class Schedule.
Note: May be taken 4 times
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, laboratory, or lecture/laboratory may be scheduled by the department. Refer to Class Schedule.
Note: May be taken 4 times
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, laboratory, or lecture/laboratory may be scheduled by the department. Refer to Class Schedule.
Note: May be taken 4 times
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
Note: May be taken 4 times

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.

Filipino

See Tagalog

Fire Technology (FIRE)

Contact Public Safety Programs for further information, (760) 744-1150, ext. 1722

Associate in Arts degree requirements, Certificate of Achievement requirements, and Certificate of Proficiency requirements are listed in Section 6 (green pages) of the catalog.

PROGRAMS OF STUDY

Fire Technology - Emergency Management

Prepares student for career in Emergency Management.

**A.A. 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
Electives (Select 12 units)		
FIRE 51	Fire Academy Preparation	2
FIRE 71	Trench Rescue	.5
FIRE 72	Swiftwater Rescue	.5
FIRE 98	Fire Service Skills	.5-5
FIRE 105	Fire Hydraulics	3
FIRE 118	Fire Prevention Technology	4
FIRE 125	Fire Apparatus and Equipment	3
FIRE 130	Fire Protection Equipment and Systems	3
FIRE 145	Fire Fighting Tactics and Strategy	3
FIRE 151	Fire Fighter I Academy	18
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
FIRE 176	Fire Command IB	2
FIRE 180	Fire Prevention IA	2
FIRE 181	Fire Prevention IB	2
FIRE 185	Fire Management I	2
FIRE 190	Fire Investigation IA	2
FIRE 193	Fire Instructor IA	2
FIRE 194	Fire Instructor IB	2
FIRE 197A	Fire Technology General Topics	.5-5
FIRE 197B	Fire Technology Command Topics	.5-5
FIRE 197C	Fire Technology Field Topics	.5-5
TOTAL UNITS		30

Fire Technology - General

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

The following courses may be substituted: CHEM 100 will substitute for FIRE 115; PHYS 102 or 120 or PHSC 100 will substitute for FIRE 165.

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

Program Requirements		Units
FIRE 100	Fire Protection Organization	3
FIRE 118	Fire Prevention Technology	4
FIRE 120	Building Construction for Fire Protection	3
FIRE 130	Fire Protection Equipment and Systems	3
FIRE 165 or	Fundamentals of Fire Protection Chemistry	3
PHYS 102 or	Introduction to Physics (Lecture)	3
PHYS 120 or	General Physics	4
PHSC 100	Introduction to Physical Science	3
Elective Courses (Select 15 units)		
FIRE 51	Fire Academy Preparation	2
FIRE 71	Trench Rescue	.5
FIRE 72	Swiftwater Rescue	.5
FIRE 98	Fire Service Skills	.5-5
FIRE 105	Fire Hydraulics	3
FIRE 115 or	Hazardous Materials I	3
CHEM 100	Fundamentals of Chemistry	4
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 145	Fire Fighting Tactics and Strategy	3
FIRE 151	Fire Fighter I Academy	18
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
FIRE 176	Fire Command IB	2
FIRE 180	Fire Prevention IA	2
FIRE 181	Fire Prevention IB	2
FIRE 185	Fire Management I	2
FIRE 190	Fire Investigation IA	2
FIRE 193	Fire Instructor IA	2
FIRE 194	Fire Instructor IB	2
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
TOTAL UNITS		31 - 32

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)
 4 hours lecture/laboratory
Note: May be taken 4 times
 This course prepares individuals for the demanding requirements of the Fire Academy. It will also prepare students for the Physical Ability test that is required to pass the North County Regional Fire Test. It breaks the test 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: Credit/No Credit grading only; may be taken 4 times
 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;