

**FCS 110 Microbiology and Foods (3)**

2 hours lecture - 3 hours 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 Food and Culture (3)**

3 hours lecture

**Transfer acceptability:** CSU

Food is an expression of cultural diversity, and traditional foods reflect geographic area and culture. Regional, ethnic, cultural, religious, historical, and social influences on food patterns are explored. Influence of socio-economic class, gender, and age on diet, health, and disease are also discussed.

**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

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, and treatments. Interrelationships of genetics and environment (diet, exercise, and behavior) on weight management. Includes vocational information for working with the obese or eating-disordered.

**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 and/or 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.

**Fashion (FASH)**

Contact the Design and Consumer Education Department for further information.

(760) 744-1150, ext. 2349

Office: P-8A

For transfer information, consult a Palomar College Counselor.

**Associate in Arts Degrees -**

AA Degree requirements are listed in Section 6 (green pages).

- Fashion Design/Technical
- Fashion Merchandising

At the time of publication of this catalog, Palomar College was awaiting approval by the California Community Colleges Chancellor's Office for a Certificate of Achievement and Associate in Arts Degree in Fashion: Buying and Management; and for a Certificate of Achievement in Fashion Merchandising. Should approvals be granted, updated information will be announced on the Palomar College catalog addendum at <http://www.palomar.edu/catalog/2011/>

**PROGRAMS OF STUDY****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
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 137 or FASH 149	Tailoring	3
FASH 139	Fine Dressmaking	3
FASH 141	Pattern Making/Fashion Design	3
FASH 145	Adv Patternmaking/Fashion Design	3
FASH 146	Fashion Illustration/Presentation	3
FASH 148	Computer Aided Design (CAD) for Fashion	3
FASH 165	Digital Design for Fashion	3
FASH 166	Sewing Laboratory	1
FASH 167	Tailoring Laboratory	.5
FASH 195	Pattern-Making Laboratory	.5
CE 150	Field Studies in Fashion	2
	Cooperative Education Internship	2-3

**Electives (Select one course)**

FASH 93	Specification Packets/Technical Design	3
FASH 125/ BUS 145	Retailing/Promotion	3
FASH 132	Costume and Culture	3
FASH 147	Advanced Computer Aided Design (CAD) for Fashion	3
FASH 170	Introduction to Fabric Design/Painting	3
FASH 178	Fashion Career Portfolio	2

**TOTAL UNITS****44 - 46****Fashion Merchandising**

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
FASH 100	Fashion Industry	3
FASH 105	Fashion Analysis/Clothing Selection	3
FASH 110	Textiles	3
FASH 115	Visual Merchandising I	3.5

FASH 120	Fashion Buying/Management II	3
FASH 125/ BUS 145	Retailing/Promotion	3
FASH 126	Fashion Show Promotion	1
FASH 130	History of Fashion/Costume	3
FASH 148	Digital Design for Fashion	3
FASH 175	Analysis, Evaluation, and Comparison of Ready-to-Wear	3
FASH 195	Field Studies in Fashion	2
CE 150	Cooperative Education Internship	2-3

**TOTAL UNITS** 32.5 - 33.5

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

## COURSE OFFERINGS

Courses numbered under 100 are not intended for transfer credit.

**FASH 90 Design Collection** (3)  
1½ hours lecture - 4½ hours laboratory  
**Recommended preparation:** At least one of the following courses: FASH 135, 136, 139, 145

**Note:** May be taken 2 times

Lab course for fashion show line designers in any clothing category of women's, men's, teen's, and children's wear.

**FASH 93 Specification Packets/Technical Design** (3)  
1½ hours lecture - 4½ hours laboratory  
**Note:** May be taken 2 times  
Spec and record garment measurements. Draw specification flats manually and digitally using Adobe Illustrator.

**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  
Examines fashion for professional and personal need as it relates to culture, wardrobe planning, and coordination.

**FASH 110 Textiles** (3)  
2½ hours lecture - 1½ hours laboratory  
**Transfer acceptability:** CSU  
Fibers, yarn, fabric construction, and finishes as related to selection, use, and care of textiles.

**FASH 115 Visual Merchandising I** (3.5)  
3 hours lecture - 1½ hours laboratory  
**Transfer acceptability:** CSU  
Designed to acquaint the student with basic techniques of effective retail store presentations including window and interior displays. Course activities include constructing and installing visual displays using the principles of design and designing store environments, utilizing fixtures, lighting, and other display materials.

**FASH 116 Visual Merchandising II** (3.5)  
3 hours lecture - 1½ hours 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 119 Fashion Buying/Management I** (3)  
3 hours lecture  
A study of management opportunities within the field of fashion retailing, at both the corporate and store level, with an emphasis on the role of store department

management. The role and responsibilities of each management position will be fully explored, including fiscal responsibilities of each and the math skills necessary to accomplish goals. Topics covered include basic management skills, inventory control, labor laws governing the fashion retail industry, recruitment and interviewing, employee relations, including coaching and counseling, math skills pertinent to each position, and merchandise management and control.

**FASH 120 Fashion Buying/Management II** (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)  
½ hour lecture - 1½ hours laboratory

**Note:** May be taken 4 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

**Note:** Cross listed as TA 131

**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)  
1½ hours lecture - 4½ hours laboratory

**Corequisite:** FASH 165

**Note:** May be taken 2 times

**Transfer acceptability:** CSU

Quality garments will be produced utilizing machine and manual industry sewing and pattern techniques.

**FASH 136 Advanced Sewing Construction** (3)  
1½ hours lecture - 4½ hours laboratory

**Prerequisite:** A minimum grade of 'C' in 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)  
*1½ hours lecture - 4½ hours laboratory*  
**Corequisite:** FASH 166  
**Recommended preparation:** FASH 136  
**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)  
*1½ hours lecture - 4½ hours 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)  
*1½ hours lecture - 4½ hours laboratory*  
**Prerequisite:** A minimum grade of 'C' in FASH 139  
**Corequisite:** FASH 167  
**Recommended preparation:** FASH 135  
**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)  
*1½ hours lecture - 4½ hours 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)  
*1½ hours lecture - 4½ hours 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)  
*1½ hours lecture - 4½ hours laboratory*  
**Prerequisite:** A minimum grade of 'C' in 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)  
*1½ hours lecture - 4½ hours 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 149 Fine Dressmaking** (3)  
*1½ hours lecture - 4½ hours laboratory*  
**Prerequisite:** A minimum grade of 'C' in FASH 136  
**Corequisite:** FASH 165  
**Note:** May be taken 2 times  
 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; 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 136  
**Note:** Pass/No Pass grading only; may be taken 4 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 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 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 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*  
**Note:** May be taken 2 times  
**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

**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 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.

**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 and/or 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 and/or 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.

**Fire Technology (FIRE)**

Contact Public Safety Programs for further information.

(760) 744-1150, ext. 1722

Office: PSTC, 182 Santar Place, San Marcos

**Associate in Arts Degrees -**

AA 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.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
<b>Electives (Select 12 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 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	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	2.5
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	.5-5
FIRE 197B	Fire Technology Command Topics	.5-5
FIRE 197C	Fire Technology Field Topics	.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.A. 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	18
FIRE 152	Driver Operator Academy	4.5
FIRE 160	Wildland Fire Control I	3