

**DIVISION OF COLLEGE AND CAREER READINESS
OFFICE OF CAREER AND TECHNICAL EDUCATION**

**HUMAN SERVICES/FAMILY AND CONSUMER SCIENCES
2020-21**

High Quality Middle School and High School Programs



Partnerships



Work-Based Learning



Certifications, Licenses



**Postsecondary Education
and Training**



**500407 Fashion Design and Apparel Construction
500408 Interior Design**



**131210 Early Childhood Education
130101 Introduction to Teaching**



**520905 Culinary Arts Management
520904 Hospitality and Tourism Management**



**120402 Barber/Master Hair Care
120401 Cosmetology
120409 Esthetics
190101 Family and Consumer Sciences
Middle School Family and Consumer Sciences
120410 Nail Technology**



190501 Food Science

“Can’t quit, will never surrender, failure is not an option.”

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Sciences

HUMAN SERVICES/FAMILY AND CONSUMER SCIENCES

Middle School Family and Consumer Sciences (FCS)

Exploratory and Introductory Programs



Exploratory Family and Consumer Sciences introduces students to relationships, resources, home safety and security, child care responsibilities, personal image, basic food preparation techniques, and entrepreneurship opportunities.

Introduction to Family and Consumer Sciences 1 provides an opportunity for students to explore self-image, consumer issues, and environmental concerns, positive approaches to child development, clothing care, financial literacy concepts, nutritional choices, food preparation, and skills for successful employment.

Introduction to Family and Consumer Sciences 2 focuses on the changes and challenges faced by young teens today. Topics include family relationships, goal setting, money management, home repairs, early childhood development, textile products, nutrition-related diseases and illnesses, and careers.

Courses Title	Course Code	Grade
Exploratory Family and Consumer Sciences	1858	6 th
Introduction to Family and Consumer Sciences 1	2857	7 th
Introduction to Family and Consumer Sciences 2	2858	8 th

Standards: [\[E&IFCS\]](#) **Work-based Learning:** [\[WBL\]](#) **Equipment List:** [\[EqL\]](#)

High School Credit Option

Level 1 of high school Family and Consumer Sciences courses can be offered in the 7th and/or 8th grade for one unit of high school credit when taught by a certified Family and Consumer Sciences teacher.

Regulation 43-232: Defined Program, Grades 6-8 B. High School Credit

When approved by the principal and the parents, a student promoted to the seventh or eighth grade may take units of ninth grade or higher work for high school credit. The high school courses offered must be limited to courses that are currently in the 9–12 section of the *Activity Coding System for the Student Information System* with the exception of physical education and health education courses. It is expected that students taking courses for high school credit have been taught and mastered the middle school level standards prior to taking the courses for high school credit. (05/25/18)

Regulation 43-234: Defined Program, Grades 9-12

IIB. A school may award one unit of credit for an academic standards-based course that requires a minimum of 120 hours of instruction. (05/25/18)

HUMAN SERVICES/FAMILY AND CONSUMER SCIENCES

Middle School Family and Consumer Sciences (FCS)

Exploratory and Introductory Programs



Career and Technical Education Student Organizations (CTSO)

SC Family, Career, and Community Leaders of America [[SCFCCLA](#)]

National Certifications

44 - [Infant/Child CPR and Babysitting \(American Red Cross\)](#)

A94 - [Microburst EmployABILITY Soft Skills Certification \(CCR\)](#)

49 - [ServSafe® Food Handlers Certification \(CCR\)](#)

A13 - [Teen Babysitting Class \(American Heart Association\)](#)

CCR – College and Career Readiness

Workplace Essential Skills: Foundation Skills

Basic Skills	Thinking Skills	Personal Qualities
Reading Writing Arithmetic and Mathematics Listening and Speaking	Creative Thinking Decision Making Problem Solving Seeing Things in the Mind's Eye Knowing How to Learn Reasoning	Responsibility Self-Esteem Social Self-Management Integrity/Honesty

Work/Volunteer Opportunities for tweens: *Opportunities listed are a small sampling of available work/volunteer options.*

Babysitting Camp counselor Charity drives Entrepreneurship Family business	Food banks Gardener assistant Homeless shelter Mail assistant Meal service	Media center assistant Retirement/Nursing home Recycling programs Teacher aide Tutor
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SCDE Teacher Certification

Required Credentials for Professional Staff Members [[RCPSM](#)]

Certification Code	Acceptable Certification and Mandatory Attendant Training
35	Family and Consumer Sciences

Arts/AV Technology & Communications

- Fashion Design and Apparel Construction
- Interior Design

ARTS, A/V TECHNOLOGY & COMMUNICATIONS
National Pathway – Visual Arts
South Carolina Pathway – Fashion Design and Apparel Construction
CIP Code 500407



Fashion Design and Apparel Construction is a program that prepares individuals to apply artistic principles and techniques to the professional design of commercial fashions, apparel, and accessories, and to manage fashion development projects. Program includes instruction in apparel design; flat pattern design; computer-assisted design; labor and cost analysis; history of fashion; and production, distribution, and marketing of various apparel and textile products.

(Minimum of **three** credits required to be a completer.)

Required Courses (Concentrator Courses)

Fashion Design and Apparel Construction 1 - 5710

Fashion Design and Apparel Construction 2 – 5711

Standards: [\[FDAC\]](#) **Work-based Learning:** [\[WBL\]](#) **Equipment List:** [\[EqL\]](#)

Plus one or more of the following, if needed

Entrepreneurship

Family and Consumer Sciences 1, 2

Fashion, Fabric, and Design 1, 2

Fashion Marketing

Marketing Management

Mechanical Design 1

Arts, A/V Technology, & Communications Internship,
work-based credit – 5290

National Certifications

72 - [Fashion, Textiles, and Apparel Assessment/Certification](#) (CCR)

A94 - [Microburst EmployABILITY Soft Skills Certification](#) (CCR)

63 - [OSHA-10](#) (CCR)

A85 - [The Southwest Airlines Professional Communications Certification](#)

373 – [Precision Exam: Apparel Design & Production I](#)

374 – [Precision Exam: Apparel Design & Production II](#)

CCR- College and Career Ready

Career and Technical Education Student Organization (CTSO)

SC Family, Career, and Community Leaders of America [\[SCFCCLA\]](#)

ARTS, A/V TECHNOLOGY & COMMUNICATIONS
National Pathway – Visual Arts
South Carolina Pathway – Fashion Design and Apparel Construction
CIP Code 500407



Labor Market Information 2018-2028

National: Median Wages: \$33.48 hourly, \$73,790 annual **(High Wage)**
Education Level: Bachelor's Degree **(High Skill)**
Projected Growth Rate: 1%

Data Source: Occupational Outlook Handbook [[FDAC](#)]

Career Options: *Careers listed are a small sampling of the available career options.*

Some College, no Degree	Associate's Degree	Bachelor's Degree
Entrepreneur Fashion buyer Fashion illustrator Merchandise displayer	Alterations specialist Draper Sales associate Visual displayer	Costume or fashion designer Custom tailor Fashion illustrator Fashion journalist

What Fashion Designers Do

Fashion designers create clothing, accessories, and footwear.

Work Environment

Fashion designers work in wholesale or manufacturing establishments, apparel companies, retailers, theater or dance companies, and design firms. Most fashion designers work in New York and California.

How to Become a Fashion Designer

Employers usually seek applicants who are creative and who have technical knowledge of the production processes for clothing, accessories, or footwear

SCDE Teacher Certification [[RCPSM](#)]

Certification Code	Acceptable Certification and Mandatory Attendant Training
35	Family and Consumer Sciences (Home Economics)
50+	Art plus additional courses or training approved by the Office of Career and Technical Education
EB	Clothing Design and Construction

Arts, A/V Technology & Communications
National Pathway – Visual Arts
South Carolina Pathway – Interior Design
CIP Code 500408



Interior Design focuses on the study of interior planning with emphasis on residential and commercial design. Instruction includes computer applications; drafting and graphic techniques; principles of interior lighting, acoustics, systems integration, and color coordination; furniture and furnishings; textiles and their finishing; the history of interior design and period styles; basic structural design, building codes, and inspection regulations; and applications to office, hotel, factory, restaurant, and housing design..

(Minimum of **three** credits required to be a completer.)

Required Courses (Concentrator Courses)

Interior Design 1 – 5455

Interior Design 2 – 5456

Standards: [\[IntD\]](#) **Work-based Learning:** [\[WBL\]](#) **Equipment List:** [\[EqL\]](#)

Plus one or more of the following, if needed

Entrepreneurship
 Family and Consumer Sciences 1, 2
 Housing and Interiors 1, 2

Marketing Management
 Mechanical Design 1
 Arts, A/V Technology, & Communications Internship,
 work-based credit – 5290

National Certifications

73 - [Interior Design Fundamentals Assessment/Certification](#) (CCR)

A94 - [Microburst EmployABILITY Soft Skills Certification](#) (CCR)

63 - [OSHA-10](#) (CCR)

A85 - [The Southwest Airlines Professional Communications Certification](#)

CCR- College and Career Ready Credential

Career and Technical Education Student Organization (CTSO)

SC Family, Career, and Community Leaders of America [\[SCFCCLA\]](#)

Arts, A/V Technology & Communications
National Pathway – Visual Arts
South Carolina Pathway – Interior Design
CIP Code 500408



Labor Market Information 2018-2028

National: Median Wages: \$26.94 hourly, \$56,040 annual **(High Wage)**
Education Level: Bachelor's Degree **(High Skill)**
Projected Growth Rate: 4% to 6%

Data Source: Occupational Outlook Handbook [[IntD](#)]

Career Options: *Careers listed are a small sampling of the available career options.*

Some College, no Degree

Furnishing sales associate
 Furnishing installer
 Interior decorator
 Interior design assistant
 Showroom assistant

Associate's Degree

Display designer
 Photo stylist
 Furnishing buyer
 Drapery/Upholstery estimator
 Restoration supervisor

Bachelor's Degree

Interior designer:
 Commercial
 Corporate
 Entertainment
 Healthcare

What Interior Designers Do

Interior designers make indoor spaces functional, safe, and beautiful by determining space requirements and selecting essential and decorative items.

Work Environment

Many interior designers work in specialized design services or in architectural, engineering, and related services.

How to Become an Interior Designer

Interior designers usually need a bachelor's degree with a focus on interior design.

SCDE Teacher Certification [[RCPSM](#)]

Certification Code

35

50+

**Acceptable Certification and
 Mandatory Attendant Training**

Family and Consumer Sciences
 (Home Economics)

Art plus additional courses or training approved by the
 Office of Career and Technology Education

Education & Training

- Early Childhood Education
- Introduction to Teaching

EDUCATION AND TRAINING
National Pathway – Education and Training
South Carolina Pathway – Early Childhood Education
CIP Code 131210



Nontraditional – Males

The Career and Technical Education (CTE) **Early Childhood Education** program prepares individuals to teach students ranging in age from infancy through eight years (grade three). The program provides training for the management of child care services and prepares individuals to plan, design, and manage child care facilities and programs that meet children's developmental needs and interests. Instruction includes child development and psychology; home- and institution-based child care; safe and healthy environments; identification of diseases, injuries, and psychological trauma and applicable referrals; parent relations; personnel and business management principles; and related laws and policies

(Minimum of **four** credits required to be a completer.)

Required Courses (Concentrator Courses)

Early Childhood Education 1 - 5700
 Early Childhood Education 2 – 5701

Standards: [\[ECE\]](#) **Work-based Learning:** [\[WBL\]](#) **Equipment List:** [\[EqL\]](#)

Plus one or more of the following, if needed

Child Development 1, 2
 Dual Enrollment Teacher Cadet – Educational Psychology (CTE Completers Only) - 8817000EW
 Dual Enrollment Teacher Cadet – Experiencing Education (CTE Completers Only) – 570500EW
 Entrepreneurship
 Family and Consumer Sciences 1, 2
 Family Life Education 1, 2

Foods and Nutrition 1, 2
 Health Science 1 – Foundations of Health Care Professionals
 Integrated Business Applications 1
 Introduction to Early Childhood Education
 Introduction to Teaching 1
 Parenting Education 1, 2
 Education and Training Internship, work-based credit – 5290

Note: Teacher Cadet courses have both CTE and Academic course codes. The content is the same for CTE and academic students. The only difference is the use of the CTE course code for a CTE completer program.

Career and Technical Education Student Organization (CTSO)

SC Family, Career, and Community Leaders of America [\[SCFCCLA\]](#)

SCDE Teacher Certification

Required Credentials for Professional Staff Members [\[RCPSM\]](#)

Certification Code	Acceptable Certification and Mandatory Attendant Training
35	Family and Consumer Sciences (Home Economics)
85+	Early Childhood plus 12 additional graduate credits approved by the OCTE

EDUCATION AND TRAINING
National Pathway – Education and Training
South Carolina Pathway – Early Childhood Education
CIP Code 131210



Nontraditional – Males

Labor Market Information 2018-2028

National:

Median Wages: \$59,420 annually
 Education Level: Bachelor's Degree
 Projected Growth Rate: 3%

High Wage
High Skill

Data Source: Occupational Outlook Handbook [ECE]

National Certifications

A64 - Advanced Child Care Training	386 – PE: Interpersonal Relationships
67 - Early Childhood Education Assessment/Certification (CCR)	268 - Praxis Core (CCR)
A94 - Microburst EmployABILITY Soft Skills Certification (CCR)	59 - SC Early Childhood Credential (ECD 101) (CCR)
63 - OSHA - 10 (CCR)	267 - SC 15-Hour Health and Safety Pre-Service Certificate (CCR)
A17 - ParaPro (CCR)	49 - ServSafe® Food Handler (CCR)
385 - PE: Child Development	A65 - The Child Development Associate Credential (CCR)

CCR- College and Career Ready

Career Options: *Careers listed are a small sampling of the available career options.*

Careers requiring less than a Baccalaureate Degree	Careers Requiring Baccalaureate Degree	Careers requiring more than a Baccalaureate Degree
Child care worker Early childhood aide Teacher assistant Nanny	Child care center director Early childhood teacher Elementary school teacher Family support specialist	Child psychologist College/University faculty Consultant Guidance counselor

What Kindergarten and Elementary School Teachers Do

Kindergarten and elementary school teachers instruct young students in basic subjects in order to prepare them for future schooling.

Work Environment

Kindergarten and elementary school teachers work in public and private schools. They generally work during school hours when students are present and use nights and weekends to prepare lessons and grade papers. Most kindergarten and elementary school teachers do not work during the summer.

How to Become a Kindergarten or Elementary School Teacher

Kindergarten and elementary school teachers usually must have at least a bachelor's degree. In addition, public school teachers must have a state-issued certification or license.

EDUCATION AND TRAINING
National Pathway – Education and Training
South Carolina Pathway – Introduction to Teaching
CIP Code 130101



Introduction to Teaching focuses on the general theory and practice of learning and teaching; the basic principles of educational psychology; the art of teaching; the planning and administration of educational activities; school safety and health issues; and the social foundations of education.

(Minimum of **four** credits required to be a completer.)

Required Courses (Concentrator Courses)

Introduction to Teaching 1 - 5703
 Introduction to Teaching 2 – 5704

Standards: [\[FDAC\]](#) **Work-based Learning:** [\[WBL\]](#) **Equipment List:** [\[EqL\]](#)

Plus one or more of the following, if needed

Child Development 1, 2	Family Life Education 1, 2
Dual Enrollment Teacher Cadet – Educational Psychology (CTE Completers Only) - 8817000EW	Health Science 1 – Foundations of Health Care Professionals
Dual Enrollment Teacher Cadet – Experiencing Education (CTE Completers Only) – 570500EW	Human Development: Responsible Life Choices 1, 2
Early Childhood Education 1 Entrepreneurship	Integrated Business Applications 1
Family and Consumer Sciences 1, 2	Introduction to Early Childhood Education
	Parenting Education 1, 2
	Web Page Design and Development
	Education and Training Internship, work-based credit – 5290

Note: Teacher Cadet courses have both CTE and academic course codes. The content is the same for CTE and academic students. The only difference is the use of the CTE course code for a CTE completer program.

Career and Technical Education Student Organization (CTSO)

SC Family, Career, and Community Leaders of America [\[SCFCCLA\]](#)

Labor Market Information 2018-2028

National:

Median Wages: \$61,660 annually
 Education Level: Bachelor's Degree
 Projected Growth Rate: 4%-5%

High Wage
High Skill

Data Source: Occupational Outlook Handbook [\[IT\]](#)

EDUCATION AND TRAINING
National Pathway – Education and Training
South Carolina Pathway – Introduction to Teaching
CIP Code 130101



National Certifications

A64 - Advanced Child Care Training	63 - OSHA-10 (CCR)
70 - Education Fundamentals Assessment/Certification (CCR)	385 – PE: Child Development
A94 - Microburst EmployABILITY SoftSkills Certification (CCR)	A17 - ParaProAssessment(CCR)
	268 - Praxis Core (CCR)

CCR- College and Career Ready

Career Options: *Careers listed are a small sampling of the available career options.*

Careers requiring less than a Baccalaureate Degree	Careers Requiring Baccalaureate Degree	Careers requiring more than a Baccalaureate Degree
Tutor Teacher assistant Nanny	Literacy specialist Online teacher Teacher	Child psychologist College/University faculty Guidance counselor

What High School Teachers Do

High school teachers teach academic lessons and various skills that students will need to attend college and to enter the job market.

Work Environment

High school teachers work in schools. They work during school hours but may also work evenings and weekends to prepare lessons and grade papers. Most do not teach during the summer.

How to Become a High School Teacher

High school teachers typically have at least a bachelor's degree. In addition, public school teachers must have a state-issued certification or license, which may require an academic background in the subject(s) they will be certified to teach.

SCDE Teacher Certification

Required Credentials for Professional Staff Members [\[RCPSM\]](#)

Certification Code	Acceptable Certification and Mandatory Attendant Training
35	Family and Consumer Sciences (Home Economics)
4B+	Business/Marketing/Computer Technology (Business and Marketing Technology)
47+	Business Education
29 +	Industrial Technology Education
30 +	Agriculture
NC+	Any high school certification
Plus additional courses or training approved by the Office of Career and Technical Education	

**CTE Approved Post-Secondary Courses for Dual Credit
Earned in CTE Programs for CTE Completer Units**

Early Childhood Education and Introduction to Teaching

Postsecondary Course Names	Course Codes	Applicable for CTE Completers Under CIP Codes(s)	Equivalent CTE Secondary Course 4 digit code SRPG
Dual Enrollment Introduction To Early Childhood (ECD 101)	5708	131210	5700 Early Childhood Education 1
Dual Enrollment Growth and Development I (ECD 102)	5709	131210	5800 Child Development 1
Dual Enrollment Creative Experiences (ECD 132)	6815	131210	5701 Early Childhood Education 2
Dual Enrollment Growth and Development 2 (ECD 203)	6812	131210	5801 Child Development 2
Dual Enrollment Methods and Materials (ECD 237)	6816	131210	5701 Early Childhood Education 2
Dual Enrollment Health, Safety and Nutrition (ECD 135)	8811	131210	5701 Early Childhood Education 2
Dual Enrollment Classroom Inquiries with Technology (EDU 201) (EDUC 204)	6818	130101	5703 Introduction to Teaching 1
Dual Enrollment Learners and Diversity (EDU 241)	6814	130101	5704 Introduction to Teaching 2

Hospitality and Tourism

- Culinary Arts Management
- Hospitality and Tourism Management

HOSPITALITY AND TOURISM
National Pathway – Restaurant Food and Beverage Services
South Carolina Pathway - Culinary Arts Management
CIP Code 520905



Culinary Arts Management prepares students to plan, manage, and market restaurants, food services in hospitality establishments, food service chains, franchise networks, and restaurant supply operations. The program includes instruction in hospitality administration, food services management, wholesale logistics and distribution, franchise operations, business networking, personnel management, culinary arts, business planning and capitalization, food industry operations, marketing and retailing, business law and regulations, finance, and professional standards and ethics.

(Minimum of **three** credits required to be a completer.)

Optional Completer Program:

Required Courses (Concentrator Courses)

Culinary Arts Management 1 - 5720
 Culinary Arts Management 2 - 5721

OR

Culinary Arts Management 1 - 5720
 Baking and Pastry - 5723

Culinary Arts Management 1 - 5720
 Culinary Arts Management 2 - 5721
 Baking and Pastry - 5723

Course Standards [[CulAM](#)]

Work-based Learning: [[WBL](#)]

Equipment List [[EqL](#)]

Plus one or more of the following, if needed

Accounting 1
 Entrepreneurship
 Event and Entertainment Management
 Foods and Nutrition 1
 Foods and Nutrition 2
 Integrated Business Applications

Introduction to Culinary Arts
 Introduction to Hospitality and Tourism Management
 Sports Nutrition 1
 Sports Nutrition 2
 Hospitality and Tourism Internship, work-based credit - 5190

Career and Technical Education Student Organizations (CTSO)

SC Family, Career, and Community Leaders of America [[SCFCCLA](#)]

Skills USA South Carolina [[SkillsUSA](#)]

Labor Market Information 2018-2028

National:

Median Wages: \$51,530 annually
 Education Level: High School Diploma or equivalent
 Projected Growth Rate: 11%

High Wage
High Skill
In Demand

Data Source: Occupational Outlook Handbook [[CAM](#)]

HOSPITALITY AND TOURISM
National Pathway – Restaurant Food and Beverage Services
South Carolina Pathway - Culinary Arts Management
CIP Code 520905



National Certifications

A43 – ACF Retail Commercial Baking (CCR)	360 – HAACP Food Handler Certification (CCR)
269 - Certified Culinarian® (CCR)	63 – OSHA (CCR)
A9 - Certified Fundamentals Cook® (CCR)	37 - ProStart (CCR)
426 - Certified Fundamentals Pastry Cook™ (CCR)	A71 - S/P2 Culinary Arts
270 - Certified Pastry Culinarian® (CCR)	A8 - Secondary Culinary Graduate
A49 - Cooking and Baking Credential (CCR)	49 - ServSafe® Food Handler Certification (CCR)
339 - CTECS: Baking and Pastry	A15 - ServSafe® Manager (CCR)
69 - Culinary Arts Assessment/Certification (CCR)	

CCR- College and Career Ready

Career Options: *Careers listed are a small sampling of the available career options.*

Entry Level	Skill/Mid-Level	Management Level
Banquet server Banquet set-up employee Bus person	Assistant food director Baker/Pastry chef Banquet chef	Banquet manager Caterer manager Culinary arts instructor

What Chefs and Head Cooks Do

Chefs and head cooks oversee the daily food preparation at restaurants and other places where food is served.

Work Environment

Chefs and head cooks work in restaurants, private households, and other establishments where food is served. They often work early mornings, late evenings, weekends, and holidays. The work can be hectic and fast-paced. Most chefs and head cooks work full time

How to Become a Chef or Head Cook

Most chefs and head cooks learn their skills through work experience. Others receive training at a community college, technical school, culinary arts school, or 4-year college. Some learn through apprenticeship programs

HOSPITALITY AND TOURISM
National Pathway – Lodging, Travel & Tourism, Recreation, Amusements & Attractions
South Carolina Pathway – Hospitality and Tourism Management
CIP Code 520904



Hospitality and Tourism Management prepares individuals to manage operations and facilities that provide lodging services to the traveling public. The program includes instruction in hospitality industry principles; supplies purchasing, storage, and control; hotel facilities design and planning; hospitality industry law; personnel management and labor relations; financial management; marketing and sales promotion; front desk operations; and convention and event management.

(Minimum of **three** credits required to be a completer.)

Required Courses (Concentrator Courses)

Introduction to Hospitality and Tourism Management 1 - 5478 (prerequisite) **(Concentrator Course)**

Select two courses from this listing for completer status; (One course from this listing for concentrator course):

Lodging Management – 5473

Travel and Tourism Management – 5474

Event and Entertainment Management - 5475

Course Standards [[HTM](#)] **Work-based Learning:** [[WBL](#)] **Equipment List** [[EqL](#)]

Plus one or more of the following, if needed

Foods and Nutrition 1	Introduction to Culinary Arts
Foods and Nutrition 2	Sports and Entertainment Management
Fundamentals of Web Page Design and Development	Sports and Entertainment Marketing
Integrated Business Applications	Hospitality and Tourism Internship, work-based credit -5190

SCDE Teacher Certification

Required Credentials for Professional Staff Members [[RCPSM](#)]

Certif. Code	Acceptable Certification and Mandatory Attendant Training
AQ	Culinary Arts
35	Family and Consumer Sciences (Home Economics)
4B	Business/Marketing/Computer Technology (Business and Marketing Technology)
47+	Business Education* plus additional courses or training approved by the Office of Career and Technical Education

HOSPITALITY AND TOURISM
National Pathway – Lodging, Travel & Tourism, Recreation, Amusements & Attractions
South Carolina Pathway – Hospitality and Tourism Management
CIP Code 520904



National Certifications

09 - <u>Academy of Hospitality and Tourism</u> (CCR)	209 - <u>Guest Service Gold®: Tourism</u> (CCR)
43 - <u>Certified Front Desk Representative</u> (CCR)	A94 - <u>Microburst EmployABILITY Soft Skills Certification</u> (CCR)
210 - <u>Certified Guest Service Professionals</u> (CCR)	63 - <u>OSHA-10</u> (CCR)
A61 - <u>Certified Guestroom Attendant</u> (CCR)	415 – <u>PE: Event Planning & Management</u>
271 - <u>Certified Hospitality and Tourism Management Professional (CHTMP)</u> (CCR)	416 – <u>PE: Lodging & Recreation</u>
A63 - <u>Certified Maintenance Employee (HSC)</u> (CCR)	417 – <u>PE: Travel & Tourism</u>
A62 - <u>Certified Restaurant Server</u> (CCR)	49 – <u>ServSafe® Food Handler</u> (CCR)
43 - <u>Front Desk Representative</u> (CCR)	A15 – <u>ServSafe® Manager</u> (CCR)
208 - <u>Guest Service Gold®: Golden Opportunities</u> (CCR)	A14 - <u>Skills, Tasks, and Results Training (START) Certification</u> (CCR)
207 - <u>Guest Service Gold®: Making Connections</u> (CCR)	

CCR - College and Career Ready

Career Options: *Careers listed are a small sampling of the available career options.*

Entry Level	Skill/Mid-Level	Managerial Level
Bell person Housekeeping attendant Line cook Marketing clerk Reservations associate	Accountant Electrician Front desk agent Housekeeping supervisor Sales representative	Advertising, Promotion, and Marketing manager Assistant general manager Catering director Chief engineer Director of security General manager

HOSPITALITY AND TOURISM
National Pathway – Lodging, Travel & Tourism, Recreation, Amusements & Attractions
South Carolina Pathway – Hospitality and Tourism Management
CIP Code 520904



Labor Market Information 2018-2028

National: Lodging Managers

Median Wages: \$54,430 annually	High Wage
Education Level: High School Diploma or equivalent	High Skill
Projected Growth Rate: 1%	

Data Source: Occupational Outlook Handbook [[LMan](#)]

What Lodging Managers Do

Lodging managers ensure that traveling guests have a pleasant experience at their establishment with accommodations. They also ensure that the business is run efficiently and profitably.

Work Environment

Because hotels are open 24 hours a day, evening and weekend work is common. Most lodging managers work full time and are often on call. The work can be pressure filled and stressful.

How to Become a Lodging Manager

Lodging managers usually take one of three education paths: a bachelor's degree in hospitality or hotel management, an associate's degree or a certificate in hotel management, or a high school diploma combined with several years of experience working in a hotel.

Labor Market Information 2018-2028

National: Advertising, Promotions, and Marketing Managers

Median Wages: \$135,900 annually	High Wage
Education Level: Bachelor's Degree	High Skill
Projected Growth Rate: 8%	In Demand

Data Source: Occupational Outlook Handbook [[APMM](#)]

What Advertising, Promotions, and Marketing Managers Do

Advertising, promotions, and marketing managers plan programs to generate interest in products or services.

Work Environment

Many of these workers are employed in advertising agencies or in corporate or regional managing offices.

How to Become an Advertising, Promotions, or Marketing Manager

A bachelor's degree is required for most advertising, promotions, and marketing management positions. These managers typically have work experience in advertising, marketing, promotions, or sales.

**CTE Approved Post-Secondary Courses for Dual Credit
Earned in CTE Programs for CTE Completer Units**

Culinary Arts Management and Hospitality and Tourism Management Alignments

Postsecondary Course Names	Course Codes	Applicable for CTE Completers Under CIP Codes(s)	Equivalent CTE Secondary Course 4 digit code SRPG
Dual Enrollment Principles of Food Production I (CUL 101)	5725	520905	5720 Culinary Arts 1
Dual Enrollment Principles of Food Production II (CUL 102)	5726	520905	5721 Culinary Arts 2
Dual Enrollment Introduction to Culinary Arts I (CUL 104)	5728	520905	5721 Culinary Arts 2
Dual Enrollment Hospitality Industry (HOS 140)	5479	520904	5478 Introduction to Hospitality and Tourism Management
Dual Enrollment Hotel Management (HOS 150)	5191	520904	5473 Lodging Management
Dual Enrollment Travel and Tourism (HOS 164)	5192	520904	5474 Travel and Tourism Management
Dual Enrollment Convention Management (HOS 258)	5193	520904	5475 Event and Entertainment Management

Human Services

- Barber/Master Hair Care
- Cosmetology
- Esthetics
- Nail Technology
- Family and Consumer Sciences

HUMAN SERVICES
National Pathway – Personal-Care Services
South Carolina Pathway –Barber/Master Hair Care
CIP Code 120402

Nontraditional - Females

Barber/Master Hair Care prepares individuals to shave and trim facial/neck hair and beards, cut and dress hair, fit hairpieces, give facial and scalp massages, apply cosmetic treatments, and to prepare for licensure as professional barbers at various levels. Includes instruction in facial shaving; beard and mustache shaping and trimming; shampooing; hair cutting; hair styles and styling art; facial treatments and massage; chemical applications; hair and scalp anatomy and physiology; hairpiece and toupee fitting; equipment operation; health and safety; customer service; and shop business practices.

(Completer Requirements: (1000 Barber hours and 540 Academic hours equals 1540 hours required and a minimum of 8 units to be a completer.)

Required Courses

Barber/Master Hair Care 1 - 6158 (concentrator)
 Barber/Master Hair Care 2 - 6159 (concentrator)
 Barber/Master Hair Care 3 - 6160 (concentrator)
 Barber/Master Hair Care 4 - 6161

Standards [[BMHC](#)]

Work-based Learning [[WBL](#)]

Equipment List [[EqL](#)]

Barber/Master Hair Care 2 – Pass

Barber/Master Hair Care 1 with a minimum of a 70 average and a minimum of 250 clock hours

Barber/Master Hair Care 3 – Pass

Barber/Master Hair Care 2 with a minimum of a 70 average and a minimum of 500 clock hours

Barber/Master Hair Care 4 – Pass

Barber/Master Hair Care 3 with a minimum of a 70 average and a minimum of 750 clock hours

Optional

Human Services Internship, work-based credit - 5790

Career and Technical Education Student Organization (CTSO)

South Carolina SkillsUSA [[SkillsUSA](#)]

Certifications/Licenses

A42 - [Master Hair Care \(chemicals\)](#) (CCR)

A94 - [Microburst EmployABILITY Soft Skills Certification](#) (CCR)

63 - [Occupational Safety and Health Administration](#) (OSHA) (CCR)

A26 - [Registered Barber \(no chemicals\)](#) (CCR)

A27 - [South Carolina Hair Braiding Registration](#) (CCR)

HUMAN SERVICES
National Pathway – Personal-Care Services
South Carolina Pathway –Barber/Master Hair Care
CIP Code 120402

Nontraditional - Females

CCR- College and Career Ready

Labor Market Information 2018-2028

National: Barbers

Median Wages: \$27,960 annually

Education Level: Postsecondary non-degree award

Projected Growth Rate: 8%

High Skill

In Demand

Data Source: Occupational Outlook Handbook [[BMH](#)]

Careers requiring specialized training	Careers requiring specialized licensure	Careers requiring training beyond specialized licensure
Barber assistant Barber apprentice Barbering product designer Barbering product sales Barber shop coordinator	Entrepreneurship Hair cut specialist Hair braiding practitioner Master hair care specialist Registered barber	Barbering instructor Barbering school owner Director of education Research chemist Trade show director

SCDE Teacher Certification

Required Credentials for Professional Staff Members [[RCPSM](#)]

Certification Code

**Acceptable Certification and
Mandatory Attendant Training**

BP

Barbering

AT+

Cosmetology plus Barbering License

What Barbers Do

Barbers, hairstylists, and cosmetologists provide haircutting, hairstyling, and a range of other beauty services.

Work Environment

Barbers, hairstylists, and cosmetologists work mostly in a barbershop or salon. Physical stamina is important, because they are on their feet for most of their shift. Many work full time, but part-time positions are also common.

How to Become a Barber

All states require barbers, hairstylists, and cosmetologists to be licensed. To qualify for a license, candidates are required to graduate from a state-approved barber or cosmetology program and then pass a state exam for licensure.

HUMAN SERVICES
National Pathway – Personal-Care Services
South Carolina Pathway – Cosmetology
CIP Code 120401

Nontraditional – Males

Cosmetology prepares individuals to cut, trim, and style hair; apply cosmetic preparations; perform manicures and pedicures; massage the head, arms and legs; and prepare for practice as licensed cosmetologists in specialized or full-service salons. Includes instruction in hair cutting and styling, manicuring, pedicuring, facial treatments, shampooing, chemical applications, esthetics, shop management, sanitation and safety, customer service, and applicable professional and labor laws and regulations.

Completer Requirements: (1000 Barber hours and 540 Academic hours equals 1540 hours required and a minimum of 8 units to be a completer.)

Required Courses

Cosmetology 1 - 6150 (Concentrator)
Cosmetology 2 - 6151 (Concentrator)
Cosmetology 3 - 6152 (Concentrator)
Cosmetology 4 - 6153

Standards [[Cos](#)] **Work-based Learning** [[WBL](#)]
Equipment List [[EqL](#)]

Optional

Human Services Internship, work-based credit - 5790

Cosmetology 2 – Pass Cosmetology 1 with a minimum of a 75 average and a minimum of 250 clock hours

Cosmetology 3 – Pass Cosmetology 2 with a minimum of a 75 average and a minimum of 500 clock hours

Cosmetology 4 – Pass Cosmetology 3 with a minimum of a 75 average and a minimum of 750 clock hour

Career and Technical Education Student Organization (CTSO)

South Carolina SkillsUSA [[SkillsUSA](#)]

Certifications/Licenses

A94 - [Microburst EmployABILITY Soft Skills Certification](#) (CCR)

63 - [Occupational Safety and Health Administration](#) (OSHA) (CCR)

39 - [South Carolina Cosmetology License](#) (CCR)

A68 - [S/P2 Cosmetology](#)

A85 – [The Southwest Airlines Professional Communications Certification](#)

CCR- College and Career Ready

HUMAN SERVICES
National Pathway – Personal-Care Services
South Carolina Pathway – Cosmetology
CIP Code 120401

Nontraditional – Males

Labor Market Information 2018-2028

National: Barbers, Hairstylists, and Cosmetologists

Median Wages: \$27,960 annually

Education Level: Postsecondary non-degree award

Projected Growth Rate: 8%

**High Skill
In Demand**

Data Source: Occupational Outlook Handbook [[COS](#)]

Careers requiring specialized training	Careers requiring specialized licensure	Careers requiring training beyond specialized licensure
Beauty business consultant Beauty care marketing Beauty product designer Department store make-up artist Shampooer	Entrepreneur Fashion show stylist Photo and movie stylist Registered cosmetologist Salon chain manager Skin care specialist	Beauty magazine writer or editor Cosmetology instructor Cosmetology school owner Director of education Platform artist and educator Research chemist

SCDE Teacher Certification

Required Credentials for Professional Staff Members [[RCPSM](#)]

Certification Code

**Acceptable Certification and
Mandatory Attendant Training**

AT

Cosmetology

BP+

Barber plus Cosmetology License

What Hairstylists and Cosmetologists Do

Hairstylists, and cosmetologists provide haircutting, hairstyling, and a range of other beauty services.

Work Environment

Barbers, hairstylists, and cosmetologists work mostly in a barbershop or salon. Physical stamina is important, because they are on their feet for most of their shift. Many work full time, but part-time positions are also common.

How to Become a Hairstylist or Cosmetologist

All states require barbers, hairstylists, and cosmetologists to be licensed. To qualify for a license, candidates are required to graduate from a state-approved barber or cosmetology program and then pass a state exam for licensure.

HUMAN SERVICES
National Pathway – Personal-Care Services
South Carolina Pathway –Esthetics
CIP Code 120409

Esthetics prepares individuals to cleanse, depilate, massage, and beautify the human body and to function as licensed estheticians and skin care specialists. Instruction includes skin anatomy, physiology, and health; principles of nutrition; decontamination and infection control; health and safety; facial and body massage; body wrapping and spa treatments; temporary hair removal including waxing and tweezing; color and skin analysis; client consultation and care; applicable laws and regulations; business practices; and, sometimes, related alternative healing regimens. Students receive additional hours required by the South Carolina Department of Education to prepare them to make a seamless transition to the medical aspects of Aesthetics.

(Completer Requirements: **(450 hours required)** by SCLLR; **(30 hours required)** by SCDE – a total of **480** hours required and a minimum of **four credits** required to be a completer.)

Required Courses

Esthetics 1 – 6162 Concentrator
 Esthetics 2 – 6163 Concentrator
 Esthetics 3 - 6164
 Esthetics 4 - 6165

Standards [[Cos](#)]

Work-based Learning [[WBL](#)]

Equipment List [[EqL](#)]

Esthetics 2 – Pass Esthetics 1 with a minimum of a **75** average and a minimum of **120** clock hours

Esthetics 3 – Pass Esthetics 2 with a minimum of a **75** average and a minimum of **240** clock hours

Esthetics 4 – Pass Esthetics 3 with a minimum of a **75** average and a minimum of **360** clock hours

Optional

Human Services Internship, work-based credit - 5790

Career and Technical Education Student Organization (CTSO)

South Carolina SkillsUSA [[SkillsUSA](#)]

Certifications/Licenses

63 - [Occupational Safety and Health Administration \(OSHA\)](#) (CCR)

A28 - [South Carolina Esthetician License](#) (CCR)

A94 - [Microburst EmployABILITY Soft Skills Certification](#) (CCR)

CCR - College and Career Ready

HUMAN SERVICES
National Pathway – Personal-Care Services
South Carolina Pathway –Esthetics
CIP Code 120409

Labor Market Information 2018-2028

National: Esthetics

Median Wages: \$34,090 annually

Education Level: Postsecondary non-degree award

Projected Growth Rate: 11%

**High Skill
In Demand**

Data Source: Occupational Outlook Handbook [[EST](#)]

Careers requiring specialized training	Careers requiring specialized licensure	Careers requiring training beyond specialized licensure
Buyer for department stores or salons Department store skin care product demonstration Skin care product sales	Anti-aging treatment specialist Entrepreneur Facial specialist Laser treatment specialist Skincare specialist	Esthetics instructor Laser esthetician Medical aesthetician Theatre makeup esthetician Permanent make-up tattoo artist

SCDE Teacher Certification

Required Credentials for Professional Staff Members [[RCPSM](#)]

Certification Code

**Acceptable Certification and
Mandatory Attendant Training**

AT

Cosmetology

ES

Esthetics

What Skincare Specialists Do

Skincare specialists cleanse and beautify the face and body to enhance a person's appearance.

Work Environment

Skincare specialists usually work in salons and beauty and health spas, and some are self-employed. Although most work full time, many work evenings and weekends.

How to Become a Skincare Specialist

Skincare specialists must complete a state-approved cosmetology or esthetician program and then pass a state exam for licensure, which all states except Connecticut require. All states require barbers, hairstylists, and cosmetologists to be licensed. To qualify for a license, candidates are required to graduate from a state-approved barber or cosmetology program and then pass a state exam for licensure.

HUMAN SERVICES
National Pathway – Personal-Care Services
South Carolina Pathway –Nail Technology
CIP Code 120410

Nontraditional – Males

Nail Technology is a program that prepares individuals to shape fingernails and toenails, remove unwanted skin and blemishes, apply polish and cosmetics to nails, and function as licensed manicurists or nail technicians/specialists. Includes instruction in manicuring theory; skin anatomy; nail growth, irregularities, and diseases; sterilization and sanitation; equipment and table maintenance; cuticle, blemish, and rough skin removal; nail filing, shaping, and polishing; cream application and extremity massage; nail sculpture and design art; product storage and use; customer services; laws and regulations; and business practices.

(Completer Requirements: **(300 hours required)** by SCLLR; **60 hours required** to be a completer by SCDE- A total of **360 Nail Technology hours** and a minimum of **three credits** to be a completer.)

Required Courses

Nail Technology 1 – 6154 (concentrator)

Nail Technology 2 – 6155 (concentrator)

Nail Technology 3 – 6156

Standards [[NTech](#)] Work-based Learning [[WBL](#)]
Equipment List [[EqL](#)]

Nail Technology 2 – Pass Nail Technology 1 with a minimum of a **75** average and a minimum of **120** clock hours

Nail Technology 3 – Pass Nail Technology 2 with a minimum of a **75** average and a minimum of **240** clock hours

Nail Technology 4 (optional) – Pass Nail Technology 3 with a minimum of a **75** average and a minimum of **360** clock hours

Additional courses if needed

Nail Technology 4 – 6157

Human Services Internship, work based credit - 5790

Career and Technical Education Student Organization (CTSO)

South Carolina SkillsUSA [[SkillsUSA](#)]

Certifications/Licenses

A94 - [Microburst EmployABILITY Soft Skills Certification](#) (CCR)

63 - [Occupational Safety and Health Administration](#) (OSHA) (CCR)

55 - [South Carolina Nail Technology License](#) (CCR)

A68 - [S/P2 Cosmetology](#)

A85 – [The Southwest Airlines Professional Communications Certification](#)

CCR - College and Career Ready

HUMAN SERVICES
National Pathway – Personal-Care Services
South Carolina Pathway –Nail Technology
CIP Code 120410

Nontraditional – Males

Labor Market Information 2018-2028

National: Nail Technology

Median Wages: \$25,770 annually

Education Level: Postsecondary non-degree award

Projected Growth Rate: 10%

**High Skill
In Demand**

Data Source: Occupational Outlook Handbook [[NT](#)]

Careers requiring specialized training

Buyer for department stores or salons
 Department store product demonstration
 Nail care product sales

Careers requiring specialized licensure

Entrepreneur
 Manicurist
 Pedicurist
 Artificial nail application specialist
 Nail enhancement specialist

Careers requiring training beyond specialized licensure

Nail technology journalist
 Nail technology instructor
 Examiner
 Inspector

SCDE Teacher Certification

Required Credentials for Professional Staff Members [[RCPSM](#)]

Certification Code

EG
 AT
 BP+

**Acceptable Certification and
Mandatory Attendant Training**

Nail Technology
 Cosmetology
 Barbering plus Nail Technology

What Manicurists and Pedicurists Do

Manicurists and pedicurists clean, shape, and beautify fingernails and toenails.

Work Environment

Manicurists and pedicurists usually work in a nail salon, spa, or hair salon. The job involves a lot of sitting. Those who own a mobile grooming company travel to their clients' locations.

How to Become a Manicurist or Pedicurist

Manicurists and pedicurists must complete a state-approved cosmetology or nail technician program and then pass a state exam for licensure, which all states except Connecticut require.

HUMAN SERVICES
National Pathway – Family and Community and Consumer Services
South Carolina Pathway –Family and Consumer Sciences
CIP Code 190101



Family and Consumer Sciences is a comprehensive program that focuses on family and consumer sciences concepts and principles at the foundational career levels and the various potential career paths open to interested students. The program consists of 10 two-level courses that include basic human developmental and behavioral characteristics of the individual within the context of the family; core knowledge and skills to apply basic art elements and principles of design used in fashion or interior design; and, nutrition and wellness concepts and practices.

Note: Program completers in Family and Consumer Sciences must select courses that show a clear path to a career and be able to complete an approved assessment successfully. A minimum of **three credits** are required to be a completer.

Required/Concentrator Courses
At least two courses required:

Child Development 1	5800
Child Development 2	5801
Family and Consumer Sciences 1	5808
Family and Consumer Sciences 2	5809
Family Life Education 1	5820
Family Life Education 2	5821
Fashion, Fabric, and Design 1	5804
Fashion, Fabric, and Design 2	5805
Financial Fitness 1	5812
Financial Fitness 2	5813
Foods and Nutrition 1	5824
Foods and Nutrition 2	5825
Housing and Interiors 1	5830
Housing and Interiors 2	5831
Human Dev: Responsible Life Choices 1	5834
Human Dev: Responsible Life Choices 2	5835
Parenting Education 1	5816
Parenting Education 2	5817
Sports Nutrition 1	5759
Sports Nutrition 2	5760

Plus one or more of the following, if needed

Culinary Arts Management 1
Dual Enrollment Teacher Cadet: Educational Psychology (CTE Completer, only)
Dual Enrollment Teacher Cadet: Experiencing Education (CTE completer, only)
Fashion Design and Apparel Construction 1
Food Science 1
Interior Design 1
Introduction to Culinary Arts Management
Introduction to Early Childhood Education
Introduction to Hospitality and Tourism Management
Introduction to Teaching 1
Personal Finance
Family and Consumer Sciences Internship, work-based credit, 5890

Standards: [\[HSFCS\]](#)

Work-based Learning: [\[WBL\]](#)

Equipment List: [\[EqL\]](#)

Career and Technical Education Student Organizations (CTSO)

SC Family, Career, and Community Leaders of America [\[SCFCCCLA\]](#)

HUMAN SERVICES
National Pathway – Family and Community and Consumer Services
South Carolina Pathway –Family and Consumer Sciences
CIP Code 190101



SCDE Teacher Certification

Required Credentials for Professional Staff Members [\[RCPSM\]](#)

Certif. Code	Acceptable Certification and Mandatory Attendant Training
35	Family and Consumer Sciences (Home Economics)
NC+	Any high school certification plus additional courses or training approved by the Office of Career and Technical Education.

National Certifications

66 - Broad Field Family and Consumer Sciences (CCR)	A94 - Microburst EmployABILITY Soft Skills Certification (CCR)
A78 - Career Preparedness	74 - Nutrition, Food, and Wellness (CCR)
71 - Family and Community Services	63 - OSHA 10 (CCR)
A30 - Financial Literacy	408 - PE - Nutrition and Wellness
418 - First Aid	68 - Personal and Family Finance
361 - Food Safety Manager Certification (CCR)	49 - ServSafe® Food Handler (CCR)
360 - HACCP Food Handler (CCR)	A15 - ServSafe® Manager (CCR)
75 - Housing and Furnishing	

CCR- College and Career Ready

Labor Market Information 2018 – 2028

National	Nutrition Careers	Fashion Careers	Interior Design Careers	Postsecondary Teacher Careers
Median Pay	\$61,270 (High Wage)	\$73,790 (High Wage)	\$56,040 (High Wage)	\$79,540 (High Wage)
Education Level	Bachelor's Degree (High Skill)	Bachelor's Degree (High Skill)	Bachelor's Degree (High Skill)	Master's Degree (High Skill)
Job Outlook	11% (In Demand)	1%	4%	11% (In Demand)
Source: Occupational Outlook Handbook	[Nutr]	[Fash]	[IntD]	[PostSec]

HUMAN SERVICES
National Pathway – Family and Community and Consumer Services
SOUTH CAROLINA PATHWAY –FAMILY AND CONSUMER SCIENCES
CIP CODE 190101



What Dietitians and Nutritionists Do

Dietitians and nutritionists advise people on what to eat in order to lead a healthy lifestyle or achieve a specific health-related goal

Work Environment

Dietitians and nutritionists work in many settings, including hospitals, nursing homes, clinics, cafeterias, and for state and local governments.

How to Become a Dietitian or Nutritionist

Dietitians and nutritionists typically need a bachelor's degree, along with supervised training through an internship. Many states require dietitians and nutritionists to be licensed.

What Fashion Designers Do

Fashion designers create clothing, accessories, and footwear.

Work Environment

Fashion designers work in wholesale or manufacturing establishments, apparel companies, retailers, theater or dance companies, and design firms. Most fashion designers work in New York and California.

How to Become a Fashion Designer

Most fashion designers have a bachelor's degree in a related field, such as fashion design or fashion merchandising. Employers usually seek applicants who are creative and who have technical knowledge of the production processes for clothing, accessories, or footwear.

What Interior Designers Do

Interior designers make indoor spaces functional, safe, and beautiful by determining space requirements and selecting essential and decorative items.

Work Environment

Many interior designers work in specialized design services or in architectural, engineering, and related services.

How to Become an Interior Designer

Interior designers usually need a bachelor's degree with a focus on interior design.

What Postsecondary Teachers Do

Postsecondary teachers instruct students in a wide variety of academic and technical subjects beyond the high school level.

Work Environment

Most postsecondary teachers work in public and private colleges and universities, professional schools, and junior or community colleges. Outside of class time, their schedules are generally flexible, and they may spend that time in administrative duties, advising students, and conducting research.

How to Become a Postsecondary Teacher

Educational requirements vary by subject and the type of educational institution. Typically, postsecondary teachers must have a Ph.D. However, a master's degree may be enough for some postsecondary teachers at community colleges, and others may need work experience in their field of expertise.

HUMAN SERVICES
National Pathway – Family and Community and Consumer Services
South Carolina Pathway –Family And Consumer Sciences
CIP Code 190101



Career Options: *Careers listed below are a small sampling of the career options that are available.*

BEHAVIORAL AND SOCIAL CAREERS	Bachelor's Degree	Master's Degree	Doctoral or professional degree
	Family and consumer sciences teacher Health educator Social worker Substance abuse counselor Teacher	Education administrator Guidance counselor Mental health counselor Postsecondary family and consumer sciences instructor	Postsecondary family and consumer sciences professor Postsecondary professor Psychologist Superintendent
DESIGN CAREERS	Occupations requiring less than a Baccalaureate Degree	Occupations Requiring Baccalaureate Degree	Occupations requiring more than a Baccalaureate Degree
	Costume attendant Demonstrators Entrepreneur Interior decorator Seamstress/Tailor	Apparel/Costume designer Decorating consultant Family and consumer sciences teacher Field merchandising representative	Interior design coordinator Interior design professors Landscape architects Civil drafters Commercial designers
NUTRITION CAREERS	Occupations requiring less than a Baccalaureate Degree	Occupations Requiring Baccalaureate Degree	Occupations requiring more than a Baccalaureate Degree
	Dietary manager Food service worker Health club worker Nutritionist	Biochemist Food scientist Health educators	Allergist/Immunologist Holistic nutrition Nutrition professor Registered dietitian

Science, Technology, Engineering & Mathematics

- Food Science

SCIENCE TECHNOLOGY ENGINEERING AND MATHEMATICS

National Pathway – Science and Mathematics

South Carolina Pathway –Food Science

CIP Code 190501



Nontraditional – Males

Food Science is the study of the physical, biological, and chemical makeup of food. It draws from many disciplines in an attempt to better understand food processes and ultimately improve food products for the general public. Food technology applies food science principles for the selection, preservation, processing, packaging, distribution, and use of safe food.

(Minimum of **three** credits required to be a completer.)

Required Courses (Concentrator Courses)

Food Science 1 - 5757

Food Science 2 - 5758

Course Standards [\[FdSci\]](#)

Work-based Learning: [\[WBL\]](#)

Equipment List [\[EqL\]](#)

Plus one or more of the following, if needed

Culinary Arts Management 1

Foods and Nutrition 1, 2

Food Processing

Introduction to Culinary Arts Management

Sports Nutrition 1, 2

Science, Technology, Engineering, and

Mathematics Internship, work-based credit – 6890

Career and Technical Education Student Organizations (CTSO)

SC Family, Career, and Community Leaders of America [\[SCFCCLA\]](#)

Labor Market Information 2018-2028

National:

Median Wages: \$68,970 annually

Education Level: High School Diploma or equivalent

Projected Growth Rate: 6%

High Wage

High Skill

In Demand

Data Source: Occupational Outlook Handbook [\[FdSci\]](#)

SCDE Teacher Certification

Required Credentials for Professional Staff Members [\[RCPSM\]](#)

Certification Code

Acceptable Certification and
Mandatory Attendant Training

35

Family and Consumer Sciences

SCIENCE TECHNOLOGY ENGINEERING AND MATHEMATICS

National Pathway – Science and Mathematics

South Carolina Pathway –Food Science

CIP Code 190501



Nontraditional – Males

National Certifications

A79 - Food Safety and Science Certification

76 - Food Science Fundamentals Assessment/Certification (CCR)

360 - HACCP (CCR)

A94 - Microburst EmployABILITY Soft Skills Certification (CCR)

63 - OSHA 10 (CCR)

49 - ServSafe® Food Handler Certification (CCR)

A15 - ServSafe® Manager (CCR)

CCR- College and Career Ready

Career Options: *Careers listed are a small sampling of the available career options.*

Occupations requiring less than a Baccalaureate Degree	Occupations Requiring Baccalaureate Degree	Occupations requiring more than a Baccalaureate Degree
Food inspector assistant Food product technician Packaging manager Product grader Sales and service manager	Dietician Food scientist Organic chemist Product developer Research Technician	Food chemist and biochemist Food microbiologist Food science professor Research scientist Sensory analyst

What Food Scientists Do

A food scientists use chemistry, microbiology, engineering, and other sciences to study the principles underlying the processing and deterioration of foods; analyze food content to determine levels of vitamins, fat, sugar, and protein; discover new food sources; research ways to make processed foods safe, palatable, and healthful; and apply food science knowledge to determine best ways to process, package, preserve, store, and distribute food.

Work Environment

Food scientists and technologists' work environment varies according to the type of employer and specialty. Food scientists work in colleges and universities, food production companies, and in scientific research and development. They divide their time between laboratories, offices, in test kitchens and when needed visits to farms and processing plants.

How to Become a Food Scientist

A food scientist usually requires a bachelor's degree from an accredited college or university because they use chemistry, microbiology, and engineering to analyze the principles of food deterioration and processing and the food's vitamin, protein, sugar, and fat content.

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