SOUTH CAROLINA
DEPARTMENT OF EDUCATION

South Carolina Modernized Career and Technical Education Programs

September 2026

Introduction

The South Carolina Career and Technical Education (CTE) Modernized Programs Guide serves as the official reference for the state's recognized CTE Modernized Programs. Developed by the Office of Career Readiness within the South Carolina Department of Education, this guide provides districts, schools, and educators with the framework and resources needed to implement high-quality CTE programs. It supports alignment with state accountability requirements, industry and workforce demands, and the goal of preparing students for success in postsecondary education, careers, and lifelong learning.

Students entering high school in the 2027-28 academic year (**9GR28**) and later are required to follow the modernized CTE programs to receive completer status. Students who entered high school prior to the 2027-28 academic year (**9GR27, 9GR26, 9GR25**) may complete the requirements of either the legacy or modernized CTE programs to receive completer status.

Document Details

The Modernized CTE Programs are listed by career cluster.

Notes identify new programs and programs with name or CIP code changes, explain the rationale for the change, and, if necessary, define the new CIP code.

New courses pending development are designated in *italics*.

Courses that qualify a student as a concentrator are identified with **.

- A concentrator is a student who has completed at least two designated courses within the same CTE program. Concentrator data is tracked as part of federal accountability reporting.

The total number of courses required to qualify a student as a completer is designated in each program's title line.

- A completer is a student who has completed the required number of courses in a specific CTE program. Completer data is a state accountability measure.

The Modernized Program Guide identifies secondary-level courses that lead to both concentrator and completer status. However, certain postsecondary courses have been approved as equivalent to secondary CTE courses and may be used to satisfy course requirements for both concentrator and completer status. Approved postsecondary equivalent courses are identified on the corresponding Course Cards in Satchel.

Additional resources related to dual enrollment and course equivalencies include:

- Expanding Dual Credit for CTE Completer Status offers additional guidance on the use of dual credit courses to satisfy completer status requirements.
- How to Pull a Current List of CTE Dual Enrollment Courses from the Course Code Database in Satchel.
- To request an evaluation of a postsecondary CTE course for equivalency to a secondary CTE course, complete the CTE Dual Credit Course Equivalency Application.

Advanced Manufacturing

Aerospace Engineering Technology **CIP Code: 150801** **4 Course Completer**

6386 Fundamentals of Aerospace Technology**
6387 Advanced Aerospace Technology**
6388 Aeronautics Engineering Applications
6389 Astronautics Engineering Applications

General Engineering **CIP Code: 140101** **4 Course Completer**

6370 Core Engineering 1**
6371 Core Engineering 2**
6375 Core Engineering 3
6376 Core Engineering 4

Notes: Program name and CIP code changed from **143501** Core Engineering to **140101** General Engineering for alignment purposes.

CIP Code Definition: A program that generally prepares individuals to apply mathematical and scientific principles to solve a wide variety of practical problems in industry, social organization, public works, and commerce. Includes instruction in undifferentiated and individualized programs in engineering.

Electronics Technology **CIP Code: 470101** **4 Course Completer**

6133 Electronics Technology 1**
6134 Electronics Technology 2**
6135 Electronics Technology 3
6136 Electronics Technology 4

Mechanical Design **CIP Code: 151302** **4 Course Completer**

6172 Mechanical Design 1**
6173 Mechanical Design 2**
6370 Core Engineering 1
6371 Core Engineering 2

Notes: Mechanical Design is included in the Advanced Manufacturing cluster to align with the national CTE Crosswalk.

CIP Code Definition: A program that prepares individuals to apply technical skills and advanced computer software and hardware to the creation of graphic representations and simulations in support of engineering projects. Includes instruction in engineering graphics, two-dimensional and three-dimensional engineering design, solids modeling, engineering animation, computer-aided drafting (CAD), computer-aided design (CADD), and auto-CAD techniques.

Machine Technology **CIP Code: 480503** **4 Course Completer**

6230 Machine Tool Technology 1**
6231 Machine Tool Technology 2**
6232 Machine Tool Technology 3
6233 Machine Tool Technology 4

Mechatronics Integrated Technology **CIP Code: 150407** **4 Course Completer**

6210 Mechatronics 1 - Electrical Components/Industrial Safety**
6211 Mechatronics 2 - Mechanical Components Electric Drives/Hand & Power Tool Op**
6212 Mechatronics 3 - Electro Pneumatics & Hydraulics
6213 Mechatronics 4 - Digital Fundamentals & Programmable Controllers

Notes: The CIP code was changed from **150404** to **150407** for better alignment with course standards.

CIP Code Definition: A program that prepares individuals to apply basic engineering principles and technical skills in the support of engineers to the design, development, and operational evaluation of autonomous, computer-controlled, electro-mechanical systems. Includes instruction in computer and software engineering, control engineering, electronic and electrical engineering, mechanical engineering, and robotics.

Pre-Engineering **CIP Code: 140102** **4 Course Completer**

6051 PLTW- Introduction to Engineering Design**
6050 PLTW- Principles of Engineering *or* **6144** PLTW Engineering Essentials**
Third and fourth courses chosen from:

- **6056** PLTW- Aerospace Engineering
- **6058** PLTW- Civil Engineering and Architecture
- **6053** PLTW- Computer Integrated Manufacturing
- **6377** PLTW- Computer Science Principles
- *Coming Soon - PLTW- Advanced Manufacturing*
- **6052** PLTW- Digital Electronics
- **6054** PLTW- Capstone
- **6374** PLTW- Environmental Sustainability (ES)

Notes: The program name and CIP code were changed from **140101** Pre-Engineering (PLTW) to **140102** Pre-Engineering to remove vendor references and improve alignment with course standards.

CIP Code Definition: A program that prepares individuals for admission or transfer to a baccalaureate-level program in any of the fields of engineering.

Automation Engineering **CIP Code: 144201** **4 Course Completer**

57R0 Siemens Engineering Design**
57R1 Siemens Manufacturing and Automation**
57R2 Siemens Mechatronics and the Internet of Things
57R3 Siemens Engineering Research and Development

Notes: The program name was changed from Siemens Engineering to Automation Engineering to remove vendor references and improve alignment with course standards.

CIP Code Definition: A program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of computer controlled electro-mechanical systems and products with embedded electronics, sensors, and actuators; and which includes, but is not limited to, automata, robots and automation systems. Includes instruction in mechanical engineering, electronic and electrical engineering, computer and software engineering, and control engineering.

Welding Technology **CIP Code: 480508** **4 Course Completer**

6340 Welding Technology 1**
6341 Welding Technology 2**
6342 Welding Technology 3
6343 Welding Technology 4

Agriculture

Agricultural Mechanics and Technology **CIP Code: 010201** **4 Course Completer**

5624 Agricultural Science and Technology**
5660 Agricultural Mechanics and Technology**
Third and fourth courses chosen from:

- **5621** Equipment Operation and Maintenance
- **5610** Agricultural Power Mechanics
- **5600** Agribusiness and Marketing
- *Coming Soon - Agricultural Experiences Capstone*

Notes: CIP code changed from **010205** to **010201** for alignment purposes.

CIP Code Definition: A program that generally prepares individuals to sell, select, and service agricultural or agribusiness technical equipment and facilities, including computers, specialized software, power units, machinery, equipment structures, and utilities. Includes instruction in agricultural power systems, planning and selecting materials for the construction of support facilities, mechanical practices associated with irrigation and water conservation, erosion control, and agricultural data processing systems.

Horticulture **CIP Code: 010601** **4 Course Completer**

5624 Agricultural Science and Technology**
5650 Introduction to Horticulture**
Third and fourth courses chosen from:

- **5672** Nursery, Greenhouse, and Garden Center Technology
- **5634** Floriculture
- **5670** Landscape Technology
- **5614** Agricultural Crop Production and Management
- **5630** Soil and Soilless Research
- **5627** Soil and Water Conservation
- **5654** Turf and Lawn Management
- **5600** Agribusiness and Marketing
- **5660** Agricultural Mechanics and Technology
- **5621** Equipment Maintenance and Technology
- *Coming Soon - Agricultural Experiences Capstone*

Notes: The previous Plant Science program has been combined into the Horticulture program.

Animal Sciences and Services **CIP Code: 010999** **4 Course Completer**

5624 Agricultural Science and Technology**
5603 Animal Science *or* **5612** Small Animal Care**
Third and fourth courses chosen from:

- **5613** Introduction to Veterinary Science
- **5679** Equine Science
- **5647** Farm Animal Production *or* **5646** Cattle Production
- **5663** Aquaculture
- **5674** Wildlife Management
- **5603** Animal Science *or* **5612** Small Animal Care
- **5600** Agribusiness and Marketing
- **5660** Agricultural Mechanics and Technology
- **5614** Agricultural Crop Production and Management
- *Coming Soon - Agricultural Experiences Capstone*

Notes: This new program separates Animal Sciences from the old Plant Science program.

CIP Code Definition: Any instructional program in the animal sciences not listed above.

Arts, Entertainment & Design

Digital Arts **CIP Code: 500102** **4 Course Completer**

6120 Digital Art and Design 1**
6121 Digital Art and Design 2**
6122 Digital Art and Design 3
6123 Digital Art and Design 4

Notes: Program name and CIP code changed from **500402** Digital Art and Design to **500102** Digital Arts for alignment purposes.

CIP Code Definition: A general, undifferentiated program that focuses on the use of computerized digital images as the primary medium of expression in the visual and performing arts, and that may prepare individuals for a wide variety of careers using new media, including graphic design, digital animation, motion graphics, 3D visualization, game and interactive media design, music and sound design, video production, web design, photography, and other fields

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Digital Imaging Design **CIP Code: 100303** **3 Course Completer**

5030 Digital Multimedia**
5340 Image Editing**
5176 Digital Publication Design

Notes: This new program will incorporate existing courses into a more defined program aligned with current and emerging labor market trends, industry expectations, and post-secondary opportunities.

CIP Code Definition: A program that prepares individuals to apply technical knowledge and skills to the layout, design and typographic arrangement of printed and/or electronic graphic and textual products. Includes instruction in printing and lithographic equipment and operations, computer hardware and software, digital imaging, print preparation, page layout and design, desktop publishing, and applicable principles of graphic design and web page design.

Fashion Design and Apparel Construction **CIP Code: 500407** **3 Course Completer**

5710 Fashion Design and Apparel Construction 1**
5711 Fashion Design and Apparel Construction 2**
Third course chosen from:

- **5400** Entrepreneurship
- **5410** Fashion Marketing

Notes: This program absorbs the former Fashion, Fabric, & Design program in the Education cluster to eliminate duplicated standards.

Game and Interactive Media Design **CIP Code: 500411** **3 Course Completer**

5350 Foundations of Animation**
5352 Game Design and Development**
5351 Advanced Animation

Notes: This program was relocated from the Digital Technology cluster to the Arts, Entertainment & Design cluster to better align with the CIP code and national classification.

Graphic Communications **CIP Code: 100301** **4 Course Completer**

6200 Graphic Communications 1**
6201 Graphic Communications 2**
6202 Graphic Communications 3
6203 Graphic Communications 4

Interior Design **CIP Code: 500408** **3 Course Completer**

5455 Interior Design 1**
5456 Interior Design**
Third course chosen from:

- **6170** Architecture 1
- **5421** Marketing

Notes: This program absorbs the Housing & Interiors program previously in the Education Cluster to eliminate duplicated standards.

Media Technology **CIP Code: 100299** **4 Course Completer**

6124 Media Technology 1**
6125 Media Technology 2**
6126 Media Technology 3
6127 Media Technology 4

Construction

Architecture **CIP Code: 040201** **3 Course Completer**

6170 Architecture 1**
6171 Architecture 2**
Third course chosen from:

- *Coming Soon - Architecture 3*
- ***6901*** *Construction Project Management*

Notes: Architecture transitioned to the Construction Cluster to better align with the national CTE Crosswalk. The CIP code was changed from **151301** to **040201** for alignment purposes.

CIP Code Definition: A program that prepares individuals for the independent professional practice of architecture and to conduct research in various aspects of the field. Includes instruction in architectural design, history, and theory; building structures and environmental systems; project and site planning; construction; professional responsibilities and standards; and related cultural, social, economic, and environmental issues.

Building Construction Technology **CIP Code: 460000** **4 Course Completer**

6060 Building Construction Technology 1**
6061 Building Construction Technology 2**
6062 Building Construction Technology 3
Fourth course chosen from:

- **6063** Building Construction Technology 4
- ***6901*** *Construction Project Management*

Carpentry **CIP Code: 460201** **4 Course Completer**

6091 Carpentry 1**
6092 Carpentry 2**
6093 Carpentry 3
Fourth course chosen from:

- **6094** Carpentry 4
- ***6901*** *Construction Project Management*

Electrical Line Worker Technology **CIP Code: 460303** **4 Course Completer**

6305 Electrical Line Worker 1**
6306 Electrical Line Worker 2**
6307 Electrical Line Worker 3
6308 Electrical Line Worker 4

Electricity **CIP Code: 460302** **4 Course Completer**

6287 Electricity 1**
6288 Electricity 2**
6289 Electricity 3
Fourth course chosen from:

- **6290** Electricity 4
- ***6901*** *Construction Project Management*

Notes: Program CIP code changed from **460301** to **460302** for alignment purposes.

CIP Code Definition: A program that prepares individuals to apply technical knowledge and skills to install, operate, maintain, and repair electric apparatus and systems such as residential, commercial, and industrial electric-power wiring; and DC and AC motors, controls, and electrical distribution panels. Includes instruction in the principles of electronics and electrical systems, wiring, power transmission, safety, industrial and household appliances, job estimation, electrical testing and inspection, and applicable codes and standards.

HVAC/R Technology **CIP Code: 470201** **4 Course Completer**

6003 HVAC/R Technology 1**
6004 HVAC/R Technology 2**
6005 HVAC/R Technology 3
Fourth course chosen from:

- **6006** HVAC/R Technology 4
- ***6901*** *Construction Project Management*

Masonry **CIP Code: 460101** **4 Course Completer**

6250 Masonry 1**
6251 Masonry 2**
6252 Masonry 3
Fourth course chosen from:

- **6253** Masonry 4
- ***6901*** *Construction Project Management*

Plumbing **CIP Code: 460503** **4 Course Completer**

6280 Plumbing 1**
6281 Plumbing 2**
6282 Plumbing 3
Fourth course chosen from:

- **6283** Plumbing 4
- ***6901****Construction Project Management*

Digital Technology

Artificial Intelligence **CIP Code:110102** **3 Course Completer**

57M1 Introduction to Artificial Intelligence**
68K1 Artificial Intelligence Applications**
Coming Soon - Advanced Artificial Intelligence Applications

Notes: This new program is currently a pilot for approved districts only. Contact Andrew Cook (acook@ed.sc.gov) for information on implementing this program.

Cybersecurity **CIP Code: 111003** **4 Course Completer**

5023 Fundamentals of Computing *or* **5025** IT Fundamentals *or* **4775** AP Computer Science Principles *or* **6377** PLTW Computer Science Principles**
5370 Cyber Security Fundamentals *or* **6378** PLTW Cybersecurity**
5372 Advanced Cybersecurity
5310 Networking Fundamentals

Notes: Name change from Computer and Information Systems Security/Information Assurance to Cybersecurity for alignment purposes.

Information Support and Services **CIP Code: 151202** **3 Course Completer**

5023 Fundamentals of Computing *or* **5025** IT Fundamentals *or* **4775** AP Computer Science Principles *or* **6377** PLTW Computer Science Principles**
5320 Computer Repair and Service**
5321 Advanced Computer Repair and Service

Networking Systems **CIP Code: 110901** **3 Course Completer**

5023 Fundamentals of Computing *or* **5025** IT Fundamentals *or* **4775** AP Computer Science Principles *or* **6377** PLTW Computer Science Principles**
5310 Networking Fundamentals**
5311 Advanced Networking

Programming and Software Development **CIP Code: 110201** **3 Course Completer**

5023 Fundamentals of Computing *or* **4775** AP Computer Science Principles *or* **6377** PLTW Computer Science Principles**
Level 1 Computer Programming**
Level 2 Computer Programming

Choose ONE row

Level 1 Computer Programming**		**Level 2 Computer Programming**
5050 Introduction to Computer Programming	And	**5051** Intermediate Computer Programming
5052 Computer Programming 1 with Java	And	**5053** Computer Programming 2 with Java
5054 Computer Programming 1 with Visual Basic	And	**5055** Computer Programming 2 with Visual Basic
5056 Computer Programming 1 with C++	And	**5057** Computer Programming 2 with C++
5064 Computer Programming 1 with Python	And	**5065** Computer Programming 2 with Python
5066 Computer Programming 1 with Swift	And	**5067** Computer Programming 2 with Swift
5324 Database Design & Programming with SQL	And	**5326** Database Programming with PL/SQL
4771 AP Computer Science A *or* **6373** PLTW Computer Science A	And	**5053** Computer Programming 2 with Java

Web Based Communications **CIP Code:110801** **3 Course Completer**

5023 Fundamentals of Computing *or* **4775** AP Computer Science Principles *or* **6377** PLTW Computer Science Principles**
5031 Fundamentals of Webpage Design & Development**
5033 Advanced Webpage Design & Development

Notes: Program name changed from Web and Digital Communications to Web Based Communications for alignment purposes.

Education

Child Development **CIP Code: 190701** **3 Course Completer**

5808 Family and Consumer Sciences 1**
5800 Child Development 1**
5801 Child Development 2

Notes: This new program will incorporate existing courses into a more defined program aligned with current and emerging labor market trends, industry expectations, and post-secondary opportunities.

CIP Code Definition: A general program that focuses on basic human developmental and behavioral characteristics of the individual within the context of the family. Includes instruction in the conditions that influence human growth and development; strategies that promote growth and development across the life span; and the study of family systems.

Early Childhood Education **CIP Code: 131210** **3 Course Completer**

5702 Introduction to Teacher Education (currently Introduction to Early Childhood Education)**
5700 Early Childhood Education 1**
5704 Early Childhood Education 2 *or* **5705** Teacher Cadet Experiencing Education

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Family and Consumer Sciences **CIP Code: 190101** **3 Course Completer**

5808 Family and Consumer Sciences 1**
5809 Family and Consumer Sciences 2**
Third course chosen from:

- **5824** Foods and Nutrition 1
- **5800** Child Development 1
- **5812** Financial Fitness

Foods and Nutrition **CIP Code: 190599** **3 Course Completer**

5808 Family and Consumer Sciences 1**
5824 Foods and Nutrition 1**
5825 Foods and Nutrition 2

Notes: This new program will incorporate existing courses into a more defined program aligned with current and emerging labor market trends, industry expectations, and post-secondary opportunities.

CIP Code Definition: Any instructional program in foods, nutrition, and related services not listed above.

Parenting and Family Services **CIP Code: 190712** **3 Course Completer**

5808 Family and Consumer Sciences 1**
5820 Family Life Education**
Third course chosen from:

- **5816** Parenting Education
- **5800** Child Development 1

Notes: This new program will incorporate existing courses into a more defined program aligned with current and emerging labor market trends, industry expectations, and post-secondary opportunities.

CIP Code Definition: A program that prepares individuals to plan, coordinate, and teach parent education programs and services that address the cultural, emotional, intellectual, physical and social needs of children and parents. Includes instruction in child development, cultural diversity in schools, child behavior, family development, family-community partnerships, family dynamics, interpersonal relationships, parent-child relationships, and social services.

Teacher Education **CIP Code: 131206** **3 Course Completer**

5702 Introduction to Teacher Education (currently Introduction to Early Childhood Education)**
5703 Education 1 (currently Introduction to Teaching 1) *or* **5705** Teacher Cadet Experiencing Education**
5704 Education 2 (currently Introduction to Teaching 2) *or* **5705** Teacher Cadet Experiencing Education (if not taken as the second course) *or* **6391** Teacher Cadet Educational Psychology

Notes: This new program will incorporate existing courses into a more defined program aligned with current and emerging labor market trends, industry expectations, and post-secondary opportunities.

CIP Code Definition: A program that prepares individuals to teach students at more than one educational level, such as a combined program in elementary/secondary, early childhood/elementary, elementary/middle school, or junior high/high school teacher education.

Energy & Natural Resources

Clean Energy — CIP Code: 149999 — 4 Course Completer

6380 Clean Energy System**
6381 Clean Energy Applications**
6382 Clean Energy Strategies
6383 Clean Energy Innovations

Environmental & Natural Resource Management — CIP Code: 030101 — 4 Course Completer

5624 Agricultural Science and Technology**
5626 Environmental & Natural Resources Management**
Third and fourth courses chosen from:

- **5600** Agribusiness & Marketing
- **5660** Agricultural Mechanics & Technology
- **5663** Aquaculture
- **5692** Biosystems Mechanics & Engineering
- **5621** Equipment Operation & Maintenance
- **5642** Forestry
- **5602** Outdoor Recreation
- **5630** Soil & Soilless Research
- **5627** Soil & Water Conservation
- **5674** Wildlife Management
- *Coming Soon - Agricultural Experiences Capstone*

Innovations in Science & Technology — CIP Code: 410000 — 4 Course Completer

6140 The Nature of Science and Technology**
6141 Core Applications of Science and Technology**
6142 Impacts of Science and Technology
6143 Creativity in Innovations

Financial Services

Accounting **CIP Code: 520301** **3 Course Completer**

5001 Accounting 1**
5005 Accounting 2**
Third course chosen from:

- **5131** Advanced Personal Finance
- **5273** Business Finance

Business and Personal/Financial Services **CIP Code: 521908** **3 Course Completer**

5001 Accounting 1 *or* **5131** Advanced Personal Finance**
5273 Business Finance**
Third course chosen from:

- **5271** Banking Services
- **5275** Insurance and Risk Management
- **5277** Securities and Investments

Notes: This new program will incorporate existing courses into a more defined program aligned with current and emerging labor market trends, industry expectations, and post-secondary opportunities.

CIP Code Definition: A program that prepares individuals to perform marketing and operational tasks associated with the provision of personal and financial services. Includes instruction in banking, marketing research, advertising, promotional campaign organization, insurance, media relations, and applicable technical and administrative skills.

Healthcare & Human Services

Barber/Master Hair Care **CIP Code: 120402** **4 Course Completer**

6158 Barber/Master Hair Care 1**
6159 Barber/Master Hair Care 2**
6160 Barber/Master Hair Care 3
6161 Barber/Master Hair Care 4

Biomedical Sciences **CIP Code: 260102** **3 Course Completer**

5581 PLTW- Human Body Systems**
5580 PLTW- Principles of Biomedical Sciences**
Third course chosen from:

- **5582** PLTW- Medical Interventions
- **5552** Health Science- Human Structure, Function, and Disease
- **5540** Medical Terminology

Notes: The program name was changed to remove vendor reference.

Cosmetology **CIP Code: 120401** **4 Course Completer**

6150 Cosmetology 1**
6151 Cosmetology 2**
6152 Cosmetology 3
6153 Cosmetology 4

EMS **CIP Code: 510999** **3 Course Completer**

5531 Emergency Medical Services 1**
5532 Emergency Medical Services 2**
5533 Emergency Medical Services 3

Esthetics **CIP Code: 120409** **4 Course Completer**

6162 Esthetics 1**
6163 Esthetics 2**
6164 Esthetics 3
6165 Esthetics 4

Healthcare Science **CIP Code: 510000** **3 Course Completer**

5550 Healthcare Science 1-Foundations of Healthcare Professionals**
5551 Healthcare Science 2-Essential Healthcare Practices**
Third course chosen from:

- **5552** Health Science-Human Structure, Function, and Disease
- **5540** Medical Terminology

Nail Technology **CIP Code: 120410** **3 Course Completer**

6154 Nail Technology 1**
6155 Nail Technology 2**
6156 Nail Technology 3

Natural Hair Braiding **CIP Code: 120407** **3 Course Completer**

6145 Introduction to Natural Hair Braiding**
6146 Natural Hair Braiding 1**
6147 Natural Hair Braiding 2

Public Health **CIP Code: 512208** **3 Course Completer**

5586 Foundations of Public Health**
5587 Advanced Principles of Public Health**
5589 Public Health Capstone

Sports Medicine **CIP Code: 510913** **3 Course Completer**

5555 Sports Medicine 1**
5556 Sports Medicine 2**
Third course chosen from:

- **5557** Sports Medicine 3
- **5552** Health Science- Human Structure, Function, and Disease
- **5540** Medical Terminology

Notes: The CIP code was changed from **310505** to **510913** for alignment purposes.

CIP Code Definition: A program that prepares individuals to work in consultation with, and under the supervision of physicians to prevent and treat sports injuries and associated conditions. Includes instruction in the identification, evaluation, and treatment of athletic injuries and illnesses; first aid and emergency care; therapeutic exercise; anatomy and physiology; exercise physiology; kinesiology and biomechanics; nutrition; sports psychology; personal and community health; knowledge of various sports and their biomechanical and physiological demands; and applicable professional standards and regulations.

Hospitality, Events & Tourism

Baking and Pastry **CIP Code: 120501** **4 Course Completer**

5723 Baking and Pastry 1**
*Coming Soon - Baking and Pastry 2***
5724 Advanced Baking and Pastry 1
Coming Soon - Advanced Baking and Pastry 2

Notes: The former two-credit Baking and Pastry and Advanced Baking and Pastry courses have each been divided into two one-credit courses. Baking and Pastry is now offered as Baking and Pastry 1 and Baking and Pastry 2, while Advanced Baking and Pastry is now offered as Advanced Baking and Pastry 1 and Advanced Baking and Pastry 2. This change was made to meet Perkins V requirements for concentrator courses.

Culinary Arts Management **CIP Code: 520905** **4 Course Completer**

5720 Culinary Arts Management 1**
5721 Culinary Arts Management 2**
Coming Soon - Culinary Arts Management 3
Coming Soon - Culinary Arts Management 4

Notes: The former two-credit Culinary Arts Management 1 and Culinary Arts Management 2 courses have each been divided into two one-credit courses. Culinary Arts Management 1 is now offered as Culinary Arts Management 1 and Culinary Arts Management 2, while Culinary Arts Management 2 is now offered as Culinary Arts Management 3 and Culinary Arts Management 4. This change was made to meet Perkins V requirements for concentrator courses.

Culinary Arts/Chef Training **CIP Code: 120503** **4 Course Completer**

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

Notes: This new program will allow students to master a wide variety of cuisines and culinary techniques aligned with current and emerging labor market trends, industry expectations, and post-secondary opportunities.

CIP Code Definition: A program that prepares individuals to provide professional chef and related cooking services in restaurants and other commercial food establishments. Includes instruction in recipe and menu planning, preparing and cooking of foods, supervising and training kitchen assistants, the management of food supplies and kitchen resources, aesthetics of food presentation, and familiarity or mastery of a wide variety of cuisines and culinary techniques.

Hospitality and Tourism Management **CIP Code: 520901** **3 Course Completer**

5478 Introduction to Hospitality and Tourism Management**
5473 Lodging Management**
5474 Travel and Tourism Management

Notes: The CIP code was changed from **520904** to **520901** for alignment purposes.

CIP Code Definition: A program that prepares individuals to serve as general managers and directors of hospitality operations on a system-wide basis, including both travel arrangements and promotion and the provision of traveler facilities. Includes instruction in principles of operations in the travel and tourism, hotel and lodging facilities, food services, and recreation facilities industries; hospitality marketing strategies; hospitality planning; management and coordination of franchise and unit operations; business management; accounting and financial management; hospitality transportation and logistics; and hospitality industry policies and regulations.

Meeting and Event Planning **CIP Code: 520907** **3 Course Completer**

5478 Introduction to Hospitality and Tourism Management**
5475 Event and Entertainment Management**
5426 Sports and Entertainment Management

Notes: This new program will incorporate existing courses into a more defined program aligned with current and emerging labor market trends, industry expectations, and post-secondary opportunities.

CIP Code Definition: A program that prepares individuals to plan, budget, and implement conferences, meetings, and other special events in the public or private sectors. Includes instruction in principles of meeting and event planning; special event management; budgets and finance; site selection; contracts, vendors, and negotiations; marketing and promotions; food and beverage management; audio-visual basics and meeting technology; and hospitality law.

Management & Entrepreneurship

Business Law **CIP Code: 529999** **3 Course Completer**

5090 Fundamentals of Business, Marketing, and Finance**
5044 Business Law**
5049 Advanced Business Law

Notes: This new program will incorporate existing courses into a more defined program aligned with current and emerging labor market trends, industry expectations, and post-secondary opportunities.

CIP Code Definition: Any instructional program in business, management, marketing and related support services not listed above.

Human Resources **CIP Code: 521001** **3 Course Completer**

5093 Fundamentals of Human Resource Management**
5044 Business Law**
5092 Business Principles and Management

Notes: Program name changed from Human Resources Management to Human Resources for alignment purposes.

CIP Code Definition: A program that generally prepares individuals to manage the development of human capital in organizations, and to provide related services to individuals and groups. Includes instruction in personnel and organization policy, human resource dynamics and flows, labor relations, sex roles, civil rights, human resources law and regulations, motivation and compensation systems, work systems, career management, employee testing and assessment, recruitment and selection, managing employee and job training programs, and the management of human resources programs and operations.

Entrepreneurship **CIP Code: 520701** **3 Course Completer**

5090 Fundamentals of Business, Marketing, and Finance **
5400 Entrepreneurship **
Third course chosen from:

- **5001** Accounting 1
- **5178** Professional and Leadership Development
- **5150** Virtual Enterprise

Notes: This new program will incorporate existing courses into a more defined program aligned with current and emerging labor market trends, industry expectations, and post-secondary opportunities.

CIP Code Definition: A program that generally prepares individuals to perform development, marketing and management functions associated with owning and operating a business.

International Business Management **CIP Code: 521101** **3 Course Completer**

5090 Fundamentals of Business, Marketing, and Finance**
5092 Business Principles and Management **
5032 International Business

Notes: This new program will incorporate existing courses into a more defined program aligned with current and emerging labor market trends, industry expectations, and postsecondary opportunities.

CIP Code Definition: A program that prepares individuals to manage international businesses and/or business operations. Includes instruction in the principles and processes of export sales, trade controls, foreign operations and related problems, monetary issues, international business policy, and applications to doing business in specific countries and markets.

Office Management & Supervision **CIP Code: 520204** **3 Course Completer**

5041 Workplace Communications**
5020 Digital Workplace Applications **
5122 Administrative Support Technology

Notes: The program name was updated from Operations Management to Office Management & Supervision for alignment purposes.

Project Management **CIP Code: 520211** **3 Course Completer**

5090 Fundamentals of Business, Marketing, and Finance**
5480 Fundamentals of Project Management **
Third course chosen from:

- **5001** Accounting 1
- **5273** Business Finance

Notes: This new program will incorporate existing courses into a more defined program aligned with current and emerging labor market trends, industry expectations, and post-secondary opportunities.

CIP Code Definition: A program that prepares individuals to apply quantitative and qualitative knowledge, skills, tools, and techniques to manage projects in a wide range of fields and occupations. Includes instruction in project planning, risk management, cost and time management, contracts and procurement, accounting, statistics, decision making, and human resources.

Marketing & Sales

Digital Marketing **CIP Code: 521404** **3 Course Completer**

5421 Marketing**
5034 Social Media Marketing *or* **5422** Digital Media Marketing**
Third course chosen from:

- **5470** Advertising
- **5422** Digital Media Marketing

Notes: The program name and CIP code were changed from **090903** Marketing Communications to **521404** Digital Marketing for alignment purposes.

CIP Code Definition: A program that prepares individuals to develop a digital marketing plan and integrate marketing, advertising, sales, and logistics across physical and digital channels. Includes instruction in digital marketing, e-commerce, online consumer psychology, search engine optimization, social media marketing, and web analytics.

Marketing Management **CIP Code: 521401** **3 Course Completer**

5421 Marketing**
5431 Marketing Management**
Third course chosen from:

- **5001** Accounting 1
- **5470** Advertising
- **5273** Business Finance

Merchandising **CIP Code: 521802** **3 Course Completer**

5421 Marketing**
5430 Merchandising**
Third course chosen from:

- **5410** Fashion Marketing
- **5423** Marketing Analytics

Real Estate **CIP Code: 521501** **3 Course Completer**

5421 Marketing**
5450 Fundamentals of Real Estate Practice**
5451 Advanced Real Estate Practice

Sports and Entertainment Marketing **CIP Code: 521499** **3 Course Completer**

5421 Marketing**
5425 Sports and Entertainment Marketing**
5426 Sports and Entertainment Management

Notes: This new program will incorporate existing courses into a more defined program aligned with current and emerging labor market trends, industry expectations, and post-secondary opportunities.

CIP Code Definition: Any instructional program in general marketing and marketing research not listed above.

Public Safety & Security

Air Force JROTC
CIP Code: 280101 | **4 Course Completer**

375101 Air Force JROTC 1**
375201 Air Force JROTC 2**
375301 Air Force JROTC 3
375401 Air Force JROTC 4

Army JROTC
CIP Code: 280301 | **4 Course Completer**

375102 Army JROTC 1**
375202 Army JROTC 2**
375302 Army JROTC 3
375402 Army JROTC 4

Coast Guard JROTC
CIP Code: 280505 | **4 Course Completer**

375103 Coast Guard JROTC 1**
375203 Coast Guard JROTC 2**
375303 Coast Guard JROTC 3
375403 Coast Guard JROTC 4

Marine Corps JROTC
CIP Code: 280401 | **4 Course Completer**

375104 Marine Corps JROTC 1**
375204 Marine Corps JROTC 2**
375304 Marine Corps JROTC 3
375404 Marine Corps JROTC 4

Navy JROTC
CIP Code: 280499 | **4 Course Completer**

375105 Navy JROTC 1**
375205 Navy JROTC 2**
375305 Navy JROTC 3
375405 Navy JROTC 4

Space Force JROTC
CIP Code: 280502 | **4 Course Completer**

375106 Space Force JROTC 1**
375206 Space Force JROTC 2**
375306 Space Force JROTC 3
375406 Space Force JROTC 4

Law Enforcement Services
CIP Code: 430107 | **3 Course Completer**

6510 Law Enforcement Services 1**
6511 Law Enforcement Services 2**
Coming Soon - Law Enforcement Services 3

Emergency and Fire Management Services **CIP Code: 430203** **3 Course Completer**

6514 Firefighter 1**
6515 Firefighter 2**
6516 Firefighter 3

Supply Chain & Transportation

Automotive Collision Repair Technology **CIP Code: 470603** **4 Course Completer**

6020 Automotive Collision Repair Technology 1**
6021 Automotive Collision Repair Technology 2**
6022 Automotive Collision Repair Technology 3
6023 Automotive Collision Repair Technology 4

Automotive and Hybrid/BEV Technology **CIP Code: 470604** **4 Course Completer**

6030 Automotive Technology and Hybrid/BEV Technology 1**
6031 Automotive Technology and Hybrid/BEV Technology 2**
6032 Automotive Technology and Hybrid/BEV Technology 3
6033 Automotive Technology and Hybrid/BEV Technology 4

Commercial Vehicle Operation **CIP Code: 490205** **4 Course Completer**

6318 Commercial Driving License 1**
6319 Commercial Driving License 2**
6320 Commercial Driving License 3
6321 Commercial Driving License 4

Diesel Technology **CIP Code: 470605** **4 Course Completer**

6310 Diesel Engine Technology 1**
6311 Diesel Engine Technology 2**
6312 Diesel Engine Technology 3
6313 Diesel Engine Technology 4

Notes: Program name changed from Diesel Engine Technology to Diesel Technology for alignment purposes.

Drone Technology **CIP Code: 490109** **3 Course Completer**

57T1 Drone Technologies 1: Theory and Aeronautical Basics**
57T2 Drone Technologies 2: Theory and Design**
57T3 Drone Technologies 3: Learn to Fly

Global Logistics & Supply Chain Management **CIP Code: 520203** **4 Course Completer**

6191 Introduction to Logistics**
6192 Functional Areas in Logistics**
6193 Global Logistics Management
6194 Logistics in Supply Chain Management

Power Equipment Technology **CIP Code: 470606** **4 Course Completer**

6300 Power Equipment Technology 1**
6301 Power Equipment Technology 2**
6302 Power Equipment Technology 3
6303 Power Equipment Technology 4