SOUTH CAROLINA DEPARTMENT OF EDUCATION

Career and Technical Education Course and Program Guide

Office of Career Readiness

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South Carolina Department of Education

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Quick Start

For fast access to resources:

- South Carolina Course Code Database
- Student Reporting Procedures Guide
- Tiered Certification Framework Guide
- Approved Tiered Certification List
- Work-Based Learning Implementation Guidelines

Overview

The Career and Technical Education (CTE) Course and Program Guide serves as the official reference for South Carolina's state-recognized CTE courses, programs of study, and related requirements for the 2026–27 school year. Developed by the Office of Career Readiness at the South Carolina Department of Education, this guide supports districts, schools, and educators in implementing high-quality CTE programs aligned to state accountability, workforce needs, and student career readiness goals.
South Carolina's CTE programs are organized within the modernized Career Clusters Framework, which groups careers into 14 career clusters that reflect current and emerging industries. While the national framework includes career pathways as a conceptual organizing structure, South Carolina operationalizes career preparation through state-recognized, CIP-coded CTE programs of study. These programs define approved course sequences, concentrator and completer requirements, and reporting expectations for state and federal accountability purposes.

Within this guide, readers will find:

- State-approved CTE course codes and course titles
- CIP-coded programs of study and approved course sequences
- Requirements for concentrator and completer status
- Guidance on innovative courses and programs
- Information on CTE Internship, Work-Based Credit courses
- Legislative requirements, including the Personal Finance graduation requirement
- Information related to tiered industry certifications and career readiness accountability

This guide is intended to be used alongside other key CTE resources, including the South Carolina Course Code Database, the Tiered Certification Framework Guide, Work-Based Learning Implementation Guidelines, and the Student Reporting Procedures Guide. Together, these resources provide districts with the clarity needed to ensure program compliance, accurate reporting, and high-quality implementation.

CTE Clusters, Programs, and Courses

Advance CTE has modernized the National Career Clusters Framework. There are now 14 Career Clusters representing more than 72 Subclusters to help students navigate their way to greater success in college and careers. With this modernization, cluster names were changed to provide learners with more personalized paths to living wage jobs and acquiring skills for a variety of careers. The Framework allows CTE educators to align, design and deliver programs that better reflect the interdisciplinary nature of the clusters and work, including stronger career exploration and advising models, and enhance the connection between classroom and field experiences such as work-based learning. Industries will be able to hire learners with a lifelong learning world view whose interests, skills, and work-based experiences align with industry sector organization and their hiring needs. Finally, this Framework also strives to connect new career readiness language that will bridge education and industry. Consequently, State CTE leaders will be better equipped to design programs and experiences that are more responsive to industry needs and can provide resources/guidance to local leaders that reflect the needs of the modern workplace.

The new modernized clusters will empower students to continue to discover their interests and their passions and choose educational pathways that can lead to post-secondary success. The following 14 clusters represent all career possibilities:

- Advanced Manufacturing
- Agriculture
- Arts, Entertainment & Design
- Construction
- Digital Technology
- Education
- Energy & Natural Resources
- Financial Services
- Healthcare & Human Services
- Hospitality, Events & Tourism
- Management & Entrepreneurship
- Marketing & Sales
- Public Service & Safety
- Supply Chain & Transportation

This new and revised information can be found on the Advance CTE Web page. Please refer to the ACTE National Career Clusters® Framework for additional detailed information.

CTE Code Descriptions

Course Code

The course code is the first four digits of the course ID.

Valid CTE courses and codes can be found in the South Carolina Course Code Database. Codes for the state-approved courses are used for the Perkins accountability indicators and report card measures and indicators. Courses with Local Board Approved (LBA) in the title are not valid CTE course codes for state and federal accountability and funding purposes.

Example: The course code for Accounting 1 is 5001.

Course ID

The course ID is the eight characters used to identify each instructional activity.

The first four characters are the digits that make up the course code found in SC – Satchel, the SCDE's Course Code Database. The fifth and sixth characters are digits that are district defined. The seventh position can contain either the alpha character that represents the academic tag for credit-bearing courses, or the numeric 0, the digit that represents the non-credit bearing special education activity instructional approach. Finally, the eighth position can contain either the alpha character that represents the unit tag for credit-bearing courses or the numeric 0, the digit that represents a specific instruction area. Use only uppercase characters for academic and unit tags.

Example: The course ID for a College-Prep Accounting 1 course could be *500100CW*.

CTE Program

A state recognized CTE program must be composed of an approved sequence of career and technical education courses leading to a career goal. Students must earn all the required units of credit to be considered a CTE program completer.

CIP Code

The six-digit CIP codes designate the specific CTE programs and are used for federal reporting and assessing the federal Perkins indicators. Every student identified as a CTE concentrator must be assigned to a CIP coded program approved by the OCR. CIP codes are not the same as course codes.

New Innovative Courses

Innovative courses are unique courses representing emerging areas of study that are not included in the CTE state approved course offerings.

The Innovative Course Application must be completed and submitted for OCR approval by **January 31st** for implementation in the following academic year. OCR approval is required before a CTE course code is assigned outside of the South Carolina Course Code Database. Once the innovative application has been approved by OCR staff, notification will be sent to the school district with the assigned course code.

For detailed information, see the New CTE Innovative Course Application Guidelines and Instructions.

Innovative Course Renewal

In order to continue use of an innovative course, the Innovative Course Application must be completed and submitted for OCR approval annually by January 31st of each year. Courses must be renewed annually for three years, at which time the Office of Career Readiness will conduct a review to determine if the course should continue as innovative, sunset, or be added as a state approved CTE course. If the innovative course is approved to continue as innovative, data must still be collected annually and an Innovative Course Application must be completed and submitted for OCR approval every three years by the January 31st deadline.

For detailed information, see the Renewal CTE Innovative Course Application Guidelines and Instructions.

New Innovative Programs

Innovative programs are unique programs containing existing or innovative CTE courses representing emerging areas of study not included in the CTE state approved program offerings.

OCR approval is required before an innovative CIP code is assigned. The Innovative Program Application must be completed and submitted for OCR approval by **January 31st** of each year. Once the innovative application has been approved by OCR staff, notification will be sent to the school district with the assigned innovative CIP code and any corresponding course codes. Innovative programs are automatically renewed with their corresponding innovative courses.

For detailed information, see the New CTE Innovative Program Application Guidelines and Instructions.

Concentrator Courses

All programs require the completion of at least two concentrator courses identified in a state recognized CIP coded program. If the courses are not sequential, it does not matter in which order they are taken. **Concentrator courses are identified with **.**

CTE Internship, Work-Based Credit Courses

The CTE Internship, Work-Based Credit course is a structured, work-based credit bearing experience taken by a student enrolled in a state recognized Career and Technical Education (CTE) Classification of Instructional Programs (CIP)-coded program. Each work-based learning (credit-bearing) course has an assigned CTE course code, and guidelines must be followed to award one Carnegie unit of credit upon successful completion of the course. Students not enrolled in a state recognized Career and Technical Education CIP-coded program may not be enrolled in a CTE Internship, Work-Based Credit course – they must be enrolled in an LBA Internship course.

CTE Internship, Work-Based Credit courses may count as the fourth or fifth unit in a CTE program after prerequisites are met.

For detailed information, see the Work-Based Learning Implementation Guidelines.

South Carolina Legislative Requirement for One-Half Unit Personal Finance Course

The South Carolina Legislature established a one-half (0.5) credit Personal Finance requirement for high school graduation. This requirement is codified in the following state laws and regulations:

S.C. Code Ann. § 59-29-165 (2025) - Instruction in personal finance.

> All students attending a high school in this State that is sustained or in any manner supported by public funds must receive instruction in the area of personal finance. The State Department of Education will assist the school districts in identifying suitable materials for instruction.

S.C. Code Ann. Regs. 43-234(L) (2023)

> A student must earn **one-half credit in financial literacy** beginning with the freshman class of 2023–24.

The following .5 credit course was created to meet the .5 unit in personal finance graduation requirement:

Table 1: One-Half (0.5) Credit Personal Finance Course

Course Code	Course Title	Carnegie Units
5141	Personal Finance	0.5

Note: Because this is a ½ credit course, this course cannot be counted as part of a CTE completer program.

Additional Courses That Satisfy the Personal Finance Graduation Requirement

After the 2025-26 school year, the only additional courses approved to satisfy the Personal Finance graduation requirement are:

Table 2: Additional Approved Personal Finance Courses

Course Code	Course Title	Carnegie Units
5131	Advanced Personal Finance	1
5812	Financial Fitness	1

If a district wishes to use a post-secondary course aligned to one of the approved courses, consult the Course Code Database. If alignment is not already approved, submit a CTE Dual Credit Course Equivalency Application.

See Appendix D for the full Personal Finance 0.5 Unit Update Memo from May 6, 2025.

Non-Cluster CTE Courses

High School Career Exploration Course

This course cannot count towards a CTE completer program but is designed to assist students with exploring different careers and employment options.

Table 3: High School Career Exploratory Course

Course Code	Course Title	Carnegie Units
57S0	Career Exploratory	1

Jobs for America's Graduates (JAG) Courses

Jobs for America's (JAG) empowers our nation's young people with the skills and support to succeed in education, employment, and life. This is a multi-year program where students work with the JAG Specialist each year through classroom instruction, career counseling, student-led career association activities, and guidance for successful completion of a high school diploma. The focus is on academic success, life survival, job attainment, work readiness, leadership, team, and self-development skills. JAG assists youth with graduation and helps to develop a plan leading to a career, either directly after high school or after post-secondary education.

Beginning in the 2026-27 school year, JAG courses can count toward the South Carolina High School Diploma one-credit CTE course requirement.

JAG courses do not count toward CTE completer status for any CIP coded program.

Table 4: JAG Courses

Course Code	Course Title
3741	Jobs for America's Graduates 1
3742	Jobs for America's Graduates 2
3743	Jobs for America's Graduates 3
3744	Jobs for America's Graduates 4

Approved Three-Unit Programs

The OCR has carefully reviewed the approved sequence of courses for each state recognized CTE program to determine which programs can be completed with three units while ensuring sufficient time for competency mastery, as well as adequate preparation for certification exams and assessments.

Table 5: Approved Three-Unit Programs

Cluster	CIP Code	Program
Arts, Entertainment, & Design	500407	Fashion Design and Apparel Construction
	500408	Interior Design
Digital Technology	151202	Information Support and Services
	110901	Networking Systems
	110201	Programming and Software Development
	110801	Web and Digital Communications
Education	190101	Family and Consumer Sciences
Financial Services	520801	Academy of Finance
	520301	Accounting
	520803	Banking Services
	520804	Business Finance
	521701	Insurance
	520807	Securities and Investment
Healthcare & Human Services	260102	Biomedical Sciences – PLTW
	510999	EMS
	510000	Healthcare Science
	512208	Public Health
	310505	Sports Medicine
	120410	Nail Technology
	120407	Natural Hair Braiding
Hospitality, Events & Tourism	520905	Culinary Arts Management
Management & Entrepreneurship	520401	Administrative Services
	520208	Business Information Management
	520201	General Management
	521001	Human Resources Management
	520204	Operations Management
	520904	Hospitality and Tourism Management
Marketing & Sales	090903	Marketing Communications
	521401	Marketing Management
	521402	Marketing Analytics
	521802	Merchandising

Cluster	CIP Code	Program
	521501	Real Estate
Public Service & Safety	440501	Governance
	440401	Public Management and Administration
	430203	Emergency & Fire Management Services
	430107	Law Enforcement Services
Supply Chain & Transportation	490109	Drone Technology

Advanced Manufacturing

The Future of Engineering and Producing: The Advanced Manufacturing Career Cluster blends innovative technologies and practices to enhance design and production. It covers areas such as engineering, research and development, automation, equipment maintenance, safety protocols, and quality control. Advanced Manufacturing aims to increase efficiency and reduce waste, ensure safety, and produce high-quality goods, drive the industry's growth, and adapt to modern demands.

Table 6: Advanced Manufacturing Courses

Course Code	Course Title for *Advanced Manufacturing* Cluster
57R0	Siemens Engineering Design
57R1	Siemens Manufacturing and Automation
57R2	Siemens Mechatronics and the Internet of Things (IoT)
57R3	Siemens Engineering Research and Development
6040	Industrial Technology Education (Exploratory) 1
6041	Industrial Technology Education (Exploratory) 2
6045	Introduction/Intermediate Manufacturing Technology
6050	PLTW – Principles of Engineering
6051	PLTW – Introduction to Engineering Design
6052	PLTW – Digital Electronics
6053	PLTW – Computer Integrated Manufacturing
6054	PLTW – Capstone
6056	PLTW – Aerospace Engineering
6058	PLTW – Civil Engineering and Architecture
6133	Electronics Technology 1
6134	Electronics Technology 2
6135	Electronics Technology 3
6136	Electronics Technology 4
6144	PLTW – Engineering Essentials
6210	Mechatronics 1 – Electrical Components/Industrial Safety
6211	Mechatronics 2 – Mechanical Components Electric Drives/Hand & Power Tool Op.
6212	Mechatronics 3 – Electro Pneumatics and Hydraulics
6213	Mechatronics 4 – Digital Fundamentals and Programmable Controllers
6222	Advanced Technology for Design and Production

Course Code	Course Title for *Advanced Manufacturing* Cluster
6223	Systems of Advanced Technology
6224	Mechatronic Systems for Advanced Production
6225	Design for the Production of Advanced Products
6230	Machine Tool Technology 1
6231	Machine Tool Technology 2
6232	Machine Tool Technology 3
6233	Machine Tool Technology 4
6260	Metal Fabrication 1
6261	Metal Fabrication 2
6262	Metal Fabrication 3
6263	Metal Fabrication 4
6340	Welding Technology 1
6341	Welding Technology 2
6342	Welding Technology 3
6343	Welding Technology 4
6370	Core Engineering 1
6371	Core Engineering 2
6372	PLTW – Computer Science Essentials
6374	PLTW – Environmental Sustainability
6375	Core Engineering 3
6376	Core Engineering 4
6377	PLTW – Computer Science Principles
6386	Fundamentals of Aerospace Technology
6387	Advanced Aerospace Technology
6388	Aeronautics Engineering Applications
6389	Astronautics Engineering Applications
6090	Pre-Engineering/Engineering & Industrial Technology Education Internship, Work-Based Credit
6490	Advanced Manufacturing Internship, Work-Based Credit

Table 7: Advanced Manufacturing CIP Coded Programs

CIP Code	**Program Title** (See below for the approved courses for each CTE program)
150801	Aerospace Engineering Technology
143501	Core Engineering
470101	Electronics Technology
150613	Integrated Production Technology
480503	Machine Technology
150404	Mechatronics Integrated Technologies
480501	Metal Fabrication
140101	Pre-Engineering (Project Lead the Way)
144201	Siemens Engineering
480508	Welding Technology

The required courses to earn completer status for the state recognized CTE programs are identified below. Courses must be offered for the designated number of Carnegie units specified in the Course Code Database.

150801 - Aerospace Engineering Technology

The Aerospace Engineering Technology CIP- coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Fundamentals of Aerospace Technology**
Advanced Aerospace Technology**
Aeronautics Engineering Applications
Astronautics Engineering Applications

Additional approved courses to meet state recognized program requirements:
(Choose three)
PLTW – Introduction to Engineering Design (IED)
PLTW – Principles of Engineering (POE)
PLTW – Aerospace Engineering (AE)
PLTW – Civil Engineering and Architecture (CEA)
PLTW – Computer Integrated Manufacturing (CIM)
PLTW – Computer Science Essentials
PLTW – Computer Science Principles
PLTW – Digital Electronics (DE)
PLTW – Capstone

PLTW – Engineering Essentials (EE)
PLTW – Environmental Sustainability (ES)

143501 – Core Engineering

The Core Engineering CIP-coded program requires a minimum of four (4) Carnegie units. **The concentrator courses are identified with **.**

Core Engineering 1**
Core Engineering 2**
Core Engineering 3
Core Engineering 4

470101 – Electronics Technology

*The Electronics Technology CIP-coded program requires a minimum of four (4) Carnegie units**. The concentrator courses are identified with **.***

Electronics Technology 1**
Electronics Technology 2**
Electronics Technology 3
Electronics Technology 4

If a student completes Electronics Technology 1 and 2, the student could become a completer by earning credit in the following courses:

Mechatronics 1 – Electrical Components/Industrial Safety
Mechatronics 2 – Mechanical Components Electric Drives/Hand & Power Tool Op.

150613 – Integrated Production Technology

*The Integrated Production Technology CIP-coded program requires a minimum of four (4) Carnegie units. **The concentrator courses are identified with **.***

Advanced Technology for Design and Production**
Systems of Advanced Technology**
Mechatronic Systems for Advanced Production
Design for the Production of Advanced Products

480503 – Machine Technology

The Machine Technology CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Machine Tool Technology 1**
Machine Tool Technology 2**
Machine Tool Technology 3
Machine Tool Technology 4
Or
Mechanical Design 1**
Mechanical Design 2**
Machine Tool Technology 1
Machine Tool Technology 2

150404 – Mechatronics Integrated Technologies

The Mechatronics Integrated Technologies CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Mechatronics 1 – Electrical Components/Industrial Safety**
Mechatronics 2 – Mechanical Components Electric Drives/Hand & Power Tool Op**.****
Mechatronics 3 – Electro Pneumatics and Hydraulics
Mechatronics 4 – Digital Fundamentals and Programmable Controllers

If a student completes Mechatronics Integrated Technologies 1 and 2, the student could become a completer by completing two or more of the following:
Electronics Technology 1
Electronics Technology 2
Or
PLTW – Introduction to Engineering Design
PLTW – Principles of Engineering

480501 – Metal Fabrication

The Metal Fabrication CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Metal Fabrication 1**
Metal Fabrication 2**
Metal Fabrication 3
Metal Fabrication 4

140101 – Pre-Engineering (PLTW)

The Pre-Engineering (Project Lead the Way) CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

PLTW – Introduction to Engineering Design** and PLTW – Principles of Engineering**
Or
PLTW – Introduction to Engineering Design** and PLTW – Engineering Essentials**
Or
PLTW – Engineering Essentials** and PLTW – Principles of Engineering**

Additional approved courses to meet state recognized program requirements:
PLTW – Aerospace Engineering
PLTW – Civil Engineering and Architecture
PLTW – Computer Integrated Manufacturing
PLTW – Computer Science Principles
PLTW – Digital Electronics
PLTW – Capstone
PLTW – Environmental Sustainability (ES)

144201 – Siemens Engineering

The Siemens Engineering CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Siemens Engineering Design**
Siemens Manufacturing and Automation**
Siemens Mechatronics and the Internet of Things (IoT)
Siemens Engineering Research and Development

480508 – Welding Technology

The Welding Technology CIP-coded program requires a minimum of four (4) Carnegie units.
The concentrator courses are identified with **.

Welding Technology 1**
Welding Technology 2**
Welding Technology 3
Welding Technology 4

Agriculture

Cultivating Sustainability and Nourishing Innovations: The Agriculture Career Cluster concentrates on the scientific advancement, cultivation, processing, and distribution of agricultural products, employing advanced technologies and sustainable practices to optimize global food systems, as well as other plant and animal-based industries like regenerative agriculture, sustainable logging, and fisheries. This cluster significantly overlaps with the Energy and Natural Resources Cluster, highlighting a symbiotic relationship that emphasizes stewardship and resilient communities.

Table 8: Agriculture Courses

Course Code	Course Title for *Agriculture* Cluster
5600	Agribusiness and Marketing
5603	Animal Science
5604	Agricultural Mechanics and Technology for the Workplace 1
5605	Agricultural Mechanics and Technology for the Workplace 2
5608	Animal Science for the Workplace 1
5609	Animal Science for the Workplace 2
5610	Agricultural Power Mechanics
5611	Agricultural Structural Mechanics
5612	Small Animal Care
5613	Introduction to Veterinary Science
5614	Agricultural Crop Production and Management
5620	Agricultural Science and Technology for the Workplace
5621	Equipment Operation and Maintenance
5624	Agricultural Science and Technology
5627	Soil and Water Conservation
5630	Soils and Soilless Research
5634	Floriculture
5646	Cattle Production
5647	Farm Animal Production
5650	Introduction to Horticulture
5652	Horticulture for the Workplace 1
5653	Horticulture for the Workplace 2
5654	Turf and Lawn Management
5655	Sports Turf Management
5657	Food Processing
5660	Agricultural Mechanics and Technology
5663	Aquaculture
5667	Golf Course Technology
5670	Landscape Technology

Course Code	Course Title for *Agriculture* Cluster
5672	Nursery, Greenhouse, and Garden Center Technology
5679	Equine Science
5691	Agricultural and Biosystems Science
5692	Biosystems Mechanics and Engineering
5693	Biosystems Technology Career Development 1
5694	Biosystems Technology Career Development 2
5695	Biosystems Technology 3
5696	Biosystems Technology 4
5690	Agriculture Internship, Work-Based Credit

Table 9: Agriculture CIP Coded Programs

CIP Code	**Program Title** (See below for the approved courses for each CTE program)
010205	Agricultural Mechanics and Technology
140301	Biosystems Engineering Technology
010601	Horticulture
011101	Plant and Animal Systems

The required courses to earn completer status for the state recognized CTE programs are identified below. Courses must be offered for the designated number of Carnegie units specified in the Course Code Database.

010205 – Agricultural Mechanics and Technology

The Agricultural Mechanics and Technology CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Agricultural and Biosystems Science** and Biosystems Mechanics and Engineering**

Or

Agricultural Mechanics and Technology** and Agricultural Power Mechanics**

Or

Agricultural Mechanics and Technology for the Workplace 1** and Agricultural Mechanics and Technology for the Workplace 2**

Or

Agricultural Science and Technology** and Agricultural Mechanics and Technology**

Or

Biosystems Mechanics and Engineering** and Agricultural Structural Mechanics or Equipment Operation and Maintenance**

Additional approved courses to meet state recognized program requirements:
Agribusiness and Marketing
Agricultural Science and Technology for the Workplace
Soil and Water Conservation

140301 – Biosystems Engineering Technology

The Biosystems Engineering Technology CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Agricultural and Biosystems Science** and Biosystems Mechanics and Engineering**
Or
Biosystems Technology Career Development 1** and Biosystems Technology Career Development 2**

Additional approved courses to meet state recognized program requirements:
Biosystems Technology 3
Biosystems Technology 4

010601 – Horticulture

The Horticulture CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Agricultural and Biosystems Science** or Agricultural Science and Technology**
and Introduction to Horticulture**
Or
Horticulture for the Workplace 1** and Horticulture for the Workplace 2**
Or
Introduction to Horticulture** and Floriculture** or Golf Course Technology** or Landscape Technology** or Nursery, Greenhouse, and Garden Center Technology** or Sports Turf Management** or Turf and Lawn Management**

Additional approved courses to meet state recognized program requirements:
Agribusiness and Marketing
Agricultural Mechanics and Technology
Agricultural Science and Technology for the Workplace
Biosystems Mechanics and Engineering
Equipment Operation and Maintenance
Soils and Soilless Research

011101 – Plant and Animal Systems

The Plant and Animal Systems CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Agricultural and Biosystems Science** or Agricultural Science and Technology** or Agricultural Science and Technology for the Workplace** and Agricultural Crop Production and Management** or Animal Science** or Aquaculture** or Cattle Production or Equine Science** or Farm Animal Production** or Food Processing** or Introduction to Veterinary Science** or Small Animal Care** or Soil and Water Conservation**

Or

Animal Science for the Workplace 1** and Animal Science for the Workplace 2**

Additional approved courses to meet state recognized program requirements:
Agribusiness and Marketing
Agricultural Mechanics and Technology
Biosystems Mechanics and Engineering
Equipment Operation and Maintenance
Soils and Soilless Research

Arts, Entertainment & Design

Inspiring Creativity, Innovation, and Artistry: The Arts, Entertainment & Design Career Cluster combines creative roles in visual and performing arts, film, journalism, fashion, interior design, and creative technologies. This cluster focuses on creating, producing, and sharing artistic and design work across multiple platforms, aiming to entertain, inform, beautify, and inspire.

Table 10: Arts, Entertainment & Design Courses

Course Code	Course Title for *Arts, Entertainment, & Design* Cluster
5205	Introduction to Graphic Communications
5455	Interior Design 1
5456	Interior Design 2
5710	Fashion Design and Apparel Construction 1
5711	Fashion Design and Apparel Construction 2
6120	Digital Art and Design 1
6121	Digital Art and Design 2
6122	Digital Art and Design 3
6123	Digital Art and Design 4
6124	Media Technology 1
6125	Media Technology 2
6126	Media Technology 3
6127	Media Technology 4
6170	Architectural Design 1
6171	Architectural Design 2
6172	Mechanical Design 1
6173	Mechanical Design 2
6200	Graphic Communications 1
6201	Graphic Communications 2
6202	Graphic Communications 3
6203	Graphic Communications 4
5290	Arts, Entertainment & Design Internship, Work-Based Credit
57K8	Fashion and Interior Internship, Work-Based Credit

Table 11: Arts, Entertainment & Design CIP Coded Programs

CIP Code	**Program Title** (See below for the approved courses for each CTE program)
151301	Architecture/Mechanical Design
500402	Digital Art and Design
500407	Fashion Design and Apparel Construction
100301	Graphic Communications
500408	Interior Design
100299	Media Technology

The required courses to earn completer status for the state recognized CTE programs are identified below. Courses must be offered for the designated number of Carnegie units specified in the Course Code Database.

Note: At least one of the courses designated with an asterisk (*) should be selected for the three (3) Carnegie unit programs to meet state recognized program requirements.

151301 – Architecture/Mechanical Design

The Architecture/Mechanical Design CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with ***.***

Architectural Design 1**
Architectural Design 2**
Or
Mechanical Design 1**
Mechanical Design 2**

500402 – Digital Art and Design

The Digital Art and Design CIP-coded program requires a minimum of four Carnegie (4) units. ***The concentrator courses are identified with ***.***

Digital Art and Design 1**
Digital Art and Design 2**
Digital Art and Design 3
Digital Art and Design 4

500407 – Fashion Design and Apparel Construction

The Fashion Design and Apparel Construction CIP-coded program requires a minimum of three (3) Carnegie units. ***The concentrator courses are identified with **.***

Fashion Design and Apparel Construction 1**
Fashion Design and Apparel Construction 2**

Additional approved courses to meet state recognized program requirements:
Advanced Web Page Design
Business Principles and Management
Entrepreneurship*
Family and Consumer Sciences 1*
Family and Consumer Sciences 2
Fashion, Fabric, and Design 1*
Fashion, Fabric, and Design 2
Fashion Marketing*
Fundamentals of Computing*
Marketing Management*
Mechanical Design 1*

100301 – Graphic Communications

The Graphic Communication CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with *****.

Graphic Communications 1**
Graphic Communications 2**
Graphic Communications 3
Graphic Communications 4

500408 – Interior Design

The Interior Design CIP-coded program requires a minimum of three (3) Carnegie units. ***The concentrator courses are identified with **.***

Interior Design 1**
Interior Design 2**

Additional approved courses to meet state recognized program requirements:
Advanced Web Page Design and Development
Architectural Design 1
Business Principles and Management
Digital Art and Design 1

Entrepreneurship*
Family and Consumer Sciences 1*
Family and Consumer Sciences 2
Fundamentals of Business, Marketing and Finance
Fundamentals of Computing*
Fundamentals of Project Management
Graphic Communication 1
Housing and Interiors 1*
Housing and Interiors 2
Introduction to Graphic Communication
Marketing Management*
Mechanical Design 1*

100299 – Media Technology

The Media Technology CIP-coded program requires a minimum of four (4) Carnegie units.
The concentrator courses are identified with **.

Media Technology 1**
Media Technology 2**
Media Technology 3
Media Technology 4

Construction

Building Futures and Pioneering Sustainable Horizons: The Construction Career Cluster focuses on professions involved in designing, planning, managing, and executing projects in the built environment. It emphasizes sustainable building practices to ensure structures are both environmentally responsible and resilient. Professionals in this field are pivotal in creating durable infrastructure that meets present needs without compromising future generations' ability to meet their own, covering a range of roles from architects and engineers to construction managers and skilled tradespeople.

Table 12: Construction Courses

Course Code	Course Title for Construction Cluster
5330	Home Smart Systems Technology
6001	Introduction to Construction
6003	HVAC/R Technology 1
6004	HVAC/R Technology 2
6005	HVAC/R Technology 3
6006	HVAC/R Technology 4
6060	Building Construction Technology 1
6061	Building Construction Technology 2
6062	Building Construction Technology 3
6063	Building Construction Technology 4
6080	Cabinetmaking 1
6081	Cabinetmaking 2
6082	Cabinetmaking 3
6083	Cabinetmaking 4
6091	Carpentry 1
6092	Carpentry 2
6093	Carpentry 3
6094	Carpentry 4
6250	Masonry 1
6251	Masonry 2
6252	Masonry 3
6253	Masonry 4
6280	Plumbing 1
6281	Plumbing 2
6282	Plumbing 3
6283	Plumbing 4
6287	Electricity 1
6288	Electricity 2
6289	Electricity 3

Course Code	Course Title for Construction Cluster
6290	Electricity 4
6305	Electrical Line Worker 1
6306	Electrical Line Worker 2
6307	Electrical Line Worker 3
6308	Electrical Line Worker 4
6690	Construction Internship, Work-Based Credit

Table 13: Construction CIP Coded Programs

CIP Code	**Program Title** (See below for the approved courses for each CTE program)
460000	Building Construction Technology
480703	Cabinetmaking
460201	Carpentry
460303	Electrical Line Worker Technology
460301	Electricity
470201	HVAC/R Technology
460101	Masonry
460503	Plumbing

The required courses to earn completer status for the state recognized CTE programs are identified below. Courses must be offered for the designated number of Carnegie units specified in the Course Code Database.

460000 – Building Construction Technology

The Building Construction Technology CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Introduction to Construction
Building Construction Technology 1**
Building Construction Technology 2**
Building Construction Technology 3
Building Construction Technology 4

480703 – Cabinetmaking

The Cabinet Making CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Introduction to Construction
Cabinetmaking 1**
Cabinetmaking 2**
Cabinetmaking 3
Cabinetmaking 4

460201 – Carpentry

The Carpentry CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Introduction to Construction
Carpentry 1**
Carpentry 2**
Carpentry 3
Carpentry 4

Or

Architectural Design 1**
Architectural Design 2**
Carpentry 1
Carpentry 2

460303 – Electrical Line Worker Technology

The Electrical Line Worker Technology CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Electrical Line Worker 1**
Electrical Line Worker 2**
Electrical Line Worker 3
Electrical Line Worker 4

460301 – Electricity

The Electricity CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Introduction to Construction
Electricity 1**
Electricity 2**
Electricity 3
Electricity 4

470201 – HVAC/R Technology

The HVAC/R Technology CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Introduction to Construction
HVAC/R Technology 1**
HVAC/R Technology 2**
HVAC/R Technology 3
HVAC/R Technology 4

460101 – Masonry

The Masonry CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Introduction to Construction
Masonry 1**
Masonry 2**
Masonry 3
Masonry 4

460503 – Plumbing

The Plumbing CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Introduction to Construction
Plumbing 1**
Plumbing 2**
Plumbing 3
Plumbing 4

Digital Technology

Modernizing Industries and Connecting Communities: The Digital Technology Career Cluster combines the development of digital systems that support communication and data storage using critical technologies like artificial intelligence, data analytics, and cybersecurity. It prepares professionals to navigate and lead in the constantly evolving tech landscape, focusing on everything from software development to data analytics to cyber safety. This cluster drives innovation across all industries and clusters to tackle complex challenges and opportunities in our communities and economies.

Table 14: Digital Technology Courses

Course Code	Course Title for *Digital Technology* Cluster
5023	Fundamentals of Computing *(Refer to Appendix A)*
5025	IT Fundamentals
5028	Fundamentals of Computing Part 1 *(Refer to Appendix A)*
5029	Fundamentals of Computing Part 2 *(Refer to Appendix A*)
5031	Fundamentals of Web Page Design and Development
5033	Advanced Web Page Design and Development
5050	Introduction to Computer Programming
5051	Intermediate Computer Programming
5052	Computer Programming 1 with Java
5053	Computer Programming 2 with Java
5054	Computer Programming 1 with Visual Basic
5055	Computer Programming 2 with Visual Basic
5056	Computer Programming 1 with C++
5057	Computer Programming 2 with C++
5058	Java Fundamentals and Java Programming
5061	Discovering Computer Science (*Refer to Appendix A)*
5062	Discovering Computer Science Part 1 ***(****Refer to Appendix A)*
5063	Discovering Computer Science Part 2 *(Refer to Appendix A)*
5064	Computer Programming 1 with Python
5065	Computer Programming 2 with Python
5066	Computer Programming 1 with Swift
5067	Computer Programming 2 with Swift
5310	Networking Fundamentals
5311	Advanced Networking
5312	Server Administration
5313	Advanced Server Administration
5320	Computer Repair and Service
5321	Advanced Computer Repair and Service
5322	Computer Operating Systems

Course Code	Course Title for *Digital Technology* Cluster
5323	Advanced Computer Operating Systems
5324	Database Design and Programming with SQL
5326	Database Programming with PL/SQL
5327	SAS Programming 1
5328	SAS Programming 2
5350	Foundations of Animation
5351	Advanced Animation
5352	Game Design and Development
5361	GIS 1
5362	GIS 2
5370	Cyber Security Fundamentals
5372	Advanced Cyber Security
5374	Computer Forensics
5376	Advanced Computer Programming
5377	Information Systems
5378	Mobile Applications Development
5379	Physical Computing and Control Systems
57M0	Introduction to Artificial Intelligence
57M1	Artificial Intelligence 1
6372	PLTW – Computer Science Essentials
6373	PLTW – Computer Science A
6377	PLTW – Computer Science Principles
6378	PLTW – Cybersecurity
6891	Computers, Networks and Databases
6892	Design for the Digital World
6893	Databases in the Cloud
6894	Developing a Cloud Presence
4778	AP Networking (Course will be retired after the 2026-27 school year)
5390	Digital Technology Internship, Work-Based Credit

Table 15: Digital Technology AP and Cambridge Courses

Course Code	Course Title for Information Technology Cluster: AP and Cambridge Computer Science
4771CTAW	AP Computer Science A
4775CTAW	AP Computer Science Principles
9706CTCW	IGCSE Computer Science (0478)
9706CTHW	IGCSE Computer Science (0478)

The AP and Cambridge Computer Science courses listed above have been carefully examined and the content aligns with existing Computer Sciences courses. Courses taken beginning with the 2021-22 school year can be used as a part of the CTE completer program only when using these designated course codes.

Table 16: Digital Technology CIP Coded Programs

CIP Code	**Program Title** (See below for the approved courses for each CTE program)
111003	Computer and Information Systems Security/Information Assurance
110701	Computer Science (PLTW)
500411	Game and Interactive Media Design
110104	Informatics
151202	Information Support and Services
110901	Networking Systems
110201	Programming and Software Development
110801	Web and Digital Communications

The required courses to earn completer status for the state recognized CTE programs are identified below. Courses must be offered for the designated number of Carnegie units specified in the Course Code Database.

Note: At least one of the courses designated with an asterisk (*) should be selected for the three (3) Carnegie unit programs to meet state recognized program requirements.

111003 – Computer and Information Systems Security/Information Assurance

The Computer and Information Systems Security/Information Assurance CIP-coded program requires a minimum of four (4) Carnegie units.
The concentrator courses are identified with ***.

Cyber Security Fundamentals**
Advanced Cyber Security**

Additional approved courses to meet state recognized program requirements: (Choose two)
Advanced Networking
AP Computer Science Principles
AP Networking
Artificial Intelligence 1

Computer Forensics
Fundamentals of Computing
Introduction to Artificial Intelligence
IT Fundamentals
Networking Fundamentals
PLTW – Computer Science Essentials
PLTW – Computer Science Principles
PLTW – Cybersecurity

110701 – Computer Science (PLTW)

The Computer Science (PLTW) CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses-any two, are identified with **.***

PLTW – Computer Science Essentials**
PLTW – Cybersecurity**
PLTW – Computer Science Principles** ***Or*** AP Computer Science Principles**
PLTW – Computer Science A** ***Or*** AP Computer Science A**
IGCSE Computer Science (0478) **

500411 – Game and Interactive Media Design

The Game and Interactive Media Design CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Foundations of Animation**
Game Design and Development**

Additional approved courses to meet state recognized program requirements:
Accounting I
Advanced Animation
AP Computer Science A
AP Computer Science Principles
AP Networking
Artificial Intelligence 1
Computer Programming 1 with C++
Computer Programming 1 with Java
Computer Programming 1 with Python
Computer Programming 1 with Swift
Computer Programming 1 with Visual Basic
Computer Repair and Service
Cyber Security Fundamentals
Digital Art and Design 1
Entrepreneurship

Fundamentals of Computing
Fundamentals of Web Page & Design and Development
IGCSE Computer Science (0478)
Introduction to Artificial Intelligence
Introduction to Computer Programming
Media Technology 1
Mobile Applications Development
Networking Fundamentals
Physical Computing and Control Systems
PLTW – Computer Science A
PLTW – Computer Science Essentials
PLTW – Computer Science Principles
PLTW – Cybersecurity

110104 – Informatics

The Informatics CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Computers, Networks and Databases**
Design for the Digital World**
Databases in the Cloud
Developing a Cloud Presence

151202 – Information Support and Services

The Information Support and Services CIP-coded program requires a minimum of three (3) Carnegie units. ***The concentrator courses are identified with **.***

Advanced Computer Repair and Service**
Computer Repair and Service**

Additional approved courses to meet state recognized program requirements:
Advanced Computer Operating Systems
Advanced Computer Programming
Advanced Cyber Security
Advanced Networking
Advanced Server Administration*
Advanced Web Page Design and Development
AP Computer Science A*
AP Computer Science Principles*
AP Networking*
Artificial Intelligence 1
Computer Forensics*

Computer Operating Systems
Computer Programming 1 with C++*
Computer Programming 1 with Java*
Computer Programming 1 with Python*
Computer Programming 1 with Swift*
Computer Programming 1 with Visual Basic*
Computer Programming 2 with C++
Computer Programming 2 with Java
Computer Programming 2 with Python
Computer Programming 2 with Swift
Computer Programming 2 with Visual Basic
Cyber Security Fundamentals*
Database Design and Programming with/SQL
Database Programming with PL/SQL
Discovering Computer Science
Entrepreneurship
Fundamentals of Computing*
Fundamentals of Web Page Design and Development*
Game Design and Development*
Home Smart Systems Technology
IGCSE Computer Science (0478)*
Information Systems
Intermediate Computer Programming
Introduction to Artificial Intelligence*
Introduction to Computer Programming*
IT Fundamentals*
Mobile Applications Development*
Networking Fundamentals*
Physical Computing and Control Systems*
PLTW – Computer Science A
PLTW – Computer Science Essentials*
PLTW – Computer Science Principles*
PLTW – Cybersecurity*
Professional Leadership Development
SAS Programming 1
SAS Programming 2
Server Administration*

110901 – Networking Systems

The Networking Systems CIP-coded program requires a minimum of three (3) Carnegie units. ***The concentrator courses are identified with **.***

Advanced Networking**
Networking Fundamentals** or AP Networking**

Additional approved courses to meet state recognized program requirements:
Advanced Computer Operating Systems
Advanced Computer Programming
Advanced Computer Repair and Service
Advanced Cyber Security
Advanced Server Administration
Advanced Web Page Design and Development
AP Computer Science A*
AP Computer Science Principles*
Artificial Intelligence 1*
Computer Forensics*
Computer Operating Systems*
Computer Programming 1 with C++
Computer Programming 1 with Java
Computer Programming 1 with Python
Computer Programming 1 with Swift
Computer Programming 1 with Visual Basic
Computer Programming 2 with C++
Computer Programming 2 with Java
Computer Programming 2 with Python
Computer Programming 2 with Swift
Computer Programming 2 with Visual Basic
Computer Repair and Service
Cyber Security Fundamentals*
Database Design and Programming with SQL
Database Programming with PL/SQL
Discovering Computer Science
Entrepreneurship
Fundamentals of Computing*
Fundamentals of Web Page Design and Development*
Game Design and Development
Home Smart Systems Technology*
IGCSE Computer Science (0478)*
Information Systems
Intermediate Computer Programming
Introduction to Artificial Intelligence*

Introduction to Computer Programming
IT Fundamentals*
Mobile Applications Development
Physical Computing and Control Systems*
PLTW – Computer Science A
PLTW – Computer Science Essentials*
PLTW – Computer Science Principles*
PLTW – Cybersecurity*
Professional and Leadership Development
SAS Programming 1
SAS Programming 2
Server Administration*

110201 – Programming and Software Development

The Programming and Software Development CIP-coded program requires a minimum of three (3) Carnegie units. ***The concentrator courses are identified with **.***

Concentrator courses should be chosen from ONE column only.

Introduction to Computer Programming**		Computer Programming 1 with [Any Language†]**		Database Design and Programming with SQL**
Intermediate Computer Programming**	*OR*	Computer Programming 2 with [Any Language†]**	*OR*	Database Programming with PL/SQL**
		†Must be the same language		

Additional approved courses to meet state recognized program requirements:
Advanced Animation
Advanced Computer Programming
Advanced Cyber Security
Advanced Web Page Design and Development
AP Computer Science A*
AP Computer Science Principles*
AP Networking
Artificial Intelligence 1*
Computer Forensics*
Computer Programming 1 with Java*
Computer Programming 1 with C++*
Computer Programming 1 with Python*
Computer Programming 1 with Swift*
Computer Programming 1 with Visual Basic*

Computer Programming 2 with C++
Computer Programming 2 with Python
Computer Programming 2 with Swift
Computer Programming 2 with Visual Basic
Computer Programming with Java 2
Cyber Security Fundamentals*
Database Design and Programming with SQL*
Database Programming with PL/SQL
Discovering Computer Science
Entrepreneurship
Foundations of Animation
Fundamentals of Computing*
Fundamentals of Web Page Design and Development*
Game Design and Development*
GIS 1*
GIS 2
IGCSE Computer Science (0478)*
Information Systems*
Intermediate Computer Programming
Introduction to Artificial Intelligence*
Introduction to Computer Programming*
IT Fundamentals*
Java Fundamentals and Java Programming*
Mobile Applications Development*
Networking Fundamentals*
Physical Computing and Control Systems*
PLTW – Computer Science A
PLTW – Computer Science Essentials*
PLTW – Computer Science Principles*
PLTW – Cybersecurity*
Professional and Leadership Development
SAS Programming 1*
SAS Programming 2

110801 – Web and Digital Communications

The Web and Digital Communications CIP-coded program requires a minimum of three (3) Carnegie units. ***The concentrator courses are identified with**.***

Advanced Web Page Design and Development**
Fundamentals of Web Page Design and Development**

Additional approved courses to meet state recognized program requirements:
Advanced Animation*
Advanced Computer Programming
AP Computer Science A*
AP Computer Science Principles*
AP Networking *
Artificial Intelligence 1*
Business Data Applications
Computer Forensics*
Computer Programming 1 with C++*
Computer Programming 1 with Java*
Computer Programming 1 with Python*
Computer Programming 1 with Swift*
Computer Programming 1 with Visual Basic*
Computer Programming 2 with C++
Computer Programming 2 with Java
Computer Programming 2 with Python
Computer Programming 2 with Swift
Computer Programming 2 with Visual Basic
Cyber Security Fundamentals*
Database Design and Programming with SQL*
Database Programming with PL/SQL
Digital Media Marketing*
Digital Multimedia*
Digital Publication Design
Digital Technologies*
Digital Workplace Applications
Discovering Computer Science
Entrepreneurship
Foundations of Animation*
Fundamentals of Computing*
Game Design and Development*
Google Applications
IGCSE Computer Science (0478)*
Image Editing*
Information Systems*
Intermediate Computer Programming
Introduction to Artificial Intelligence*
Introduction to Computer Programming
IT Fundamentals*
Java Fundamentals and Java Programming
Mobile Applications Development*

Networking Fundamentals*
PLTW – Computer Science A
PLTW – Computer Science Essentials*
PLTW – Computer Science Principles*
PLTW – Cybersecurity*
Professional and Leadership Development
Social Media Marketing*

Education

Lifelong Learning for Transforming Lives and Enriching Futures: The Education Career Cluster spans careers aimed at fostering learning from early childhood to adulthood, covering areas like teaching, instructional design, counseling services, community engagement, learner support, and educator training. This cluster emphasizes quality educational standards and lifelong learning, preparing individuals for success through all life stages by nurturing knowledge, skills, and critical thinking, encouraging personal growth in a constantly evolving world.

Table 17: Education Courses

Course Code	Course Title for Education Cluster
5700	Early Childhood Education 1
5701	Early Childhood Education 2
5702	Introduction to Early Childhood Education
5703	Introduction to Teaching 1
5704	Introduction to Teaching 2
5759	Nutrition and Wellness *(Refer to Appendix A)*
5760	Sports Nutrition
5800	Child Development 1 *(Refer to Appendix A)*
5801	Child Development 2
5804	Fashion, Fabric, and Design 1 *(Refer to Appendix A)*
5805	Fashion, Fabric, and Design 2
5808	Family and Consumer Sciences 1
5809	Family and Consumer Sciences 2
5812	Financial Fitness
5816	Parenting Education
5820	Family Life Education
5824	Foods and Nutrition 1 *(Refer to Appendix A)*
5825	Foods and Nutrition 2
5830	Housing and Interiors 1 (*Refer to Appendix A)*
5831	Housing and Interiors 2
5834	Human Development: Responsible Life Choices
6108	Mental Health Fitness
6390	Education Internship, Work-Based Credit
5890	Family and Consumer Sciences Internship, Work-Based Credit

Table 18: Education Cluster Course Titles for Dual Enrollment

Course Code	Education Cluster Course Title for Dual Enrollment
570500EW	Dual Enrollment Teacher Cadet – Experiencing Education (CTE Completers Only)
639100EW	Dual Enrollment Teacher Cadet – Educational Psychology (CTE Completers Only)

Note: Teacher Cadet courses are dual enrollment courses and 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.

Table 19: Education CIP Coded Programs

CIP Code	**Program Title** (See below for the approved courses for each CTE program)
131210	Early Childhood Education
190101	Family and Consumer Sciences
190704	Family Systems and Mental Health
130101	Introduction to Teaching

The required courses to earn completer status for the state recognized CTE programs are identified below. Courses must be offered for the designated number of Carnegie units specified in the Course Code Database.

Note: At least one of the courses designated with an asterisk (*) should be selected for the three (3) Carnegie unit programs to meet state recognized program requirements.

131210 – Early Childhood Education

The Early Childhood Education CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with ***.***

Early Childhood Education 1**
Early Childhood Education 2**

Additional approved courses to meet state recognized program requirements:
Child Development 1
Child Development 2
Dual Enrollment Teacher Cadet – Educational Psychology (CTE Completers Only)
Dual Enrollment Teacher Cadet – Experiencing Education (CTE Completers Only)
Entrepreneurship
Family and Consumer Sciences 1
Family and Consumer Sciences 2
Digital Workplace Applications
Family Life Education
Foods and Nutrition 1
Foods and Nutrition 2
Fundamentals of Computing
Healthcare Science 1 – Foundations of Healthcare Professionals
Introduction to Early Childhood Education
Introduction to Teaching 1
Mental Health Fitness
Parenting Education

190101 – Family and Consumer Sciences

The Family and Consumer Sciences CIP-coded program requires a minimum of three (3) Carnegie units. Three level one (1) courses or a mixture of level one (1) and two (2) courses constitutes a completer program.

Any two of these courses would qualify for concentrator status. The combination can be levels one and two of one course or level one of two different courses that prepare a student to earn an industry or post-secondary recognized credential.

Child Development 1
Child Development 2
Family and Consumer Sciences 1
Family and Consumer Sciences 2
Family Life Education
Fashion, Fabric, and Design 1
Fashion, Fabric, and Design 2
Financial Fitness or Advanced Personal Finance
Foods and Nutrition 1
Foods and Nutrition 2
Housing and Interiors 1
Housing and Interiors 2
Human Development: Responsible Life Choices

Mental Health Fitness
Parenting Education
Nutrition and Wellness
Sports Nutrition

Additional approved courses to meet state recognized program requirements for three (3) or more units:
Baking and Pastry*
Culinary Arts Management 1*
Dual Enrollment Teacher Cadet – Educational Psychology (CTE Completer Only)*
Dual Enrollment Teacher Cadet – Experiencing Education (CTE Completer Only)*
Early Childhood Education 1*
Entrepreneurship
Fashion Design and Apparel Construction 1*
Food Science 1*
Fundamentals of Computing*
Interior Design 1*
Introduction to Culinary Arts Management*
Introduction to Early Childhood Education*
Introduction to Hospitality and Tourism Management*
Introduction to Teaching 1*
Advanced Personal Finance*

190704 – Family Systems and Mental Health

The Family System & Mental Health CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Child Development 1**
Mental Health Fitness**

Approved courses to meet state recognized program requirements:
Dual Enrollment Teacher Cadet – Educational Psychology (CTE Completer Only)
Dual Enrollment Teacher Cadet – Experiencing Education (CTE Completer Only)
Early Childhood Education 1
Family Life Education
Fundamentals of Computing
Human Development: Responsible Life Choices
Introduction to Early Childhood Education
Introduction to Teaching 1
Parenting Education

130101 – Introduction to Teaching

The Introduction to Teaching CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Introduction to Teaching 1**
Introduction to Teaching 2**

Additional approved courses to meet state recognized program requirements:

Child Development 1
Child Development 2
Digital Workplace Applications
Dual Enrollment Teacher Cadet – Educational Psychology (CTE Completers Only)
Dual Enrollment Teacher Cadet – Experiencing Education (CTE Completers Only)
Early Childhood Education 1
Entrepreneurship
Family and Consumer Sciences 1
Family and Consumer Sciences 2
Family Life Education
Fundamentals of Computing
Fundamentals of Web Page Design and Development
Healthcare Science 1 – Foundations of Healthcare Professionals
Human Development: Responsible Life Choices
Introduction to Early Childhood Education
Mental Health Fitness
Parenting Education

Energy & Natural Resources

Powering Progress and Preserving Our Planet: The Energy & Natural Resources Career Cluster spans careers in traditional and renewable energy generation, utilities, environmental preservation and conservation, ecological research, and resource extraction. These industries focus on efficient and responsible resource management, aiming to minimize environmental impacts and meet global energy needs. An interconnected relationship exists with the Agriculture Cluster as practices in energy and resource management are directly influenced by agricultural production.

Table 20: Energy & Natural Resources Courses

Course Code	Course Title for *Energy & Natural Resources* Cluster
5620	Agricultural Science and Technology for the Workplace
5621	Equipment Operation and Maintenance
5624	Agricultural Science and Technology
5626	Environmental and Natural Resources Management
5627	Soil and Water Conservation
5628	Environmental and Natural Resources Management for the Workplace 1
5629	Environmental and Natural Resources Management for the Workplace 2
5630	Soils and Soilless Research
5642	Forestry
5660	Agricultural Mechanics and Technology
5663	Aquaculture
5674	Wildlife Management
5691	Agricultural and Biosystems Science
5692	Biosystems Mechanics and Engineering
6140	The Nature of Science and Technology**
6141	Core Applications of Science and Technology**
6142	Impacts of Science Technology
6143	Creativity and Innovations
6380	Clean Energy Systems (Course 1)
6381	Clean Energy Applications (Course 2)
6382	Clean Energy Strategies (Course 3)
6383	Clean Energy Innovations (Course 4)
5690	Agriculture Internship, Work-Based Credit

Table 21: Energy & Natural Resources CIP Coded Programs

CIP Code	**Program Title** (See below for the approved courses for each CTE program)
149999	Clean Energy
030101	Environmental and Natural Resources Management
410000	Innovations in Science and Technology

The required courses to earn completer status for the state recognized CTE programs are identified below. Courses must be offered for the designated number of Carnegie units specified in the Course Code Database.

149999 – Clean Energy

The Clean Energy CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Clean Energy Systems (Course 1)**
Clean Energy Applications (Course 2)**
Clean Energy Strategies (Course 3)
Clean Energy Innovations (Course 4)

030101 – Environmental and Natural Resources Management

The Environmental and Natural Resources Management CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Agricultural and Biosystems Science** or Agricultural Science and Technology** and Environmental and Natural Resources Management**

Or

Environmental and Natural Resources Management for the Workplace 1** and Environmental and Natural Resources Management for the Workplace 2**

Or

Environmental and Natural Resources Management** and Forestry** or Soil and Water Conservation** or Wildlife Management**

Additional approved courses to meet state recognized program requirements:
Agricultural Mechanics and Technology
Agricultural Science and Technology for the Workplace
Aquaculture
Biosystems Mechanics and Engineering
Equipment Operation and Maintenance

Outdoor Recreation
Soils and Soilless Research

410000 – Innovations in Science and Technology

*The Innovations in Science and Technology CIP-coded program requires a minimum of four (4) Carnegie units***. The concentrator courses are identified with **.***

The Nature of Science and Technology**
Core Applications of Science and Technology**
Impacts of Science and Technology
Creativity and Innovations

Financial Services

Empowering Financial Resilience: The Financial Services Career Cluster encompasses careers in managing and advising financial transactions, including banking, lending, corporate finance, debt management, accounting, insurance, and real estate. These careers contribute to economic stability and growth by supporting the financial health of individuals and organizations.

Table 22: Financial Services Courses

Course Code	Course Title for *Financial Services* Cluster
5001	Accounting 1
5005	Accounting 2
5131	Advanced Personal Finance
5271	Banking Services
5273	Business Finance
5275	Insurance and Risk Management
5277	Securities and Investments
6190	Financial Services Internship, Work-Based Credit

Table 23: Financial Services CIP Coded Programs

CIP Code	**Program Title** (See below for the approved courses for each CTE program)
520801	Academy of Finance
520301	Accounting
520803	Banking Services
520804	Business Finance
521701	Insurance
520807	Securities and Investments

The required courses to earn completer status for the state recognized CTE programs are identified below. Courses must be offered for the designated number of Carnegie units specified in the Course Code Database.

Note: At least one of the courses designated with an asterisk (*) should be selected for the three (3) Carnegie unit programs to meet state recognized program requirements.

520801 – Academy of Finance

Schools meeting the NAF membership requirements must follow the NAF curriculum.

520301 – Accounting

The Accounting CIP-coded program requires a minimum of three (3) Carnegie units. ***The concentrator courses are identified with **.***

Accounting 1**
Accounting 2**

Additional approved courses to meet state recognized program requirements:
Advanced Personal Finance*
Banking Services
Business Data Applications*
Business Finance*
Business Law*
Business Principles and Management*
Digital Workplace Applications*
Entrepreneurship*
Fundamentals of Business, Marketing and Finance*
Insurance and Risk Management
Professional and Leadership Development
Securities and Investments
Virtual Enterprise 1
Virtual Enterprise 2
Virtual Enterprise 3
Virtual Enterprise 4
Workplace Communications*

520803 – Banking Services

The Banking Services CIP-coded program requires a minimum of three (3) Carnegie units. ***The concentrator courses are identified with **.***

Banking Services**
Business Finance**

Additional approved courses to meet state recognized program requirements:
Accounting 1*
Accounting 2*
Business Data Applications*
Business Law*

Business Principles and Management
Digital Workplace Applications*
Entrepreneurship
Fundamentals of Business, Marketing and Finance
Insurance and Risk Management
International Business
Marketing*
Advanced Personal Finance*
Professional and Leadership Development*
Professional Sales*
Securities and Investments
Workplace Communications*

520804 – Business Finance

The Business Finance CIP-coded program requires a minimum of three (3) Carnegie units.
The concentrator courses are identified with **.

Accounting 1**
Business Finance**

Additional approved courses to meet state recognized program requirements:
Accounting 2
Advanced Personal Finance*
Banking Services*
Business Data Applications*
Business Law*
Digital Workplace Applications*
Entrepreneurship*
Fundamentals of Business, Marketing and Finance*
Insurance and Risk Management
International Business*
Marketing*
Professional and Leadership Development*
Professional Sales*
Securities and Investments**
Workplace Communications*

521701 – Insurance

The Insurance CIP-coded program requires a minimum of three (3) Carnegie units. ***The concentrator courses are identified with **.***

Business Finance**
Insurance and Risk Management**

Additional approved courses to meet state recognized program requirements:
Accounting 1*
Accounting 2
Advanced Personal Finance*
Banking Services
Business Data Applications*
Business Law*
Business Principles and Management
Digital Workplace Applications*
Entrepreneurship*
Fundamentals of Business, Marketing and Finance*
Marketing*
Professional and Leadership Development*
Professional Sales*
Securities and Investments
Social Media Marketing*
Workplace Communications*

520807 – Securities and Investments

The Securities and Investment CIP-coded program requires a minimum of three (3) Carnegie units. ***The concentrator courses are identified with **.***

Business Finance**
Securities and Investments**

Additiona*l approved courses to meet state recognized program requirements:*
Accounting 1*
Accounting 2
Advanced Personal Finance*
Banking Services*
Business Data Applications*
Business Law*
Business Principles and Management
Digital Workplace Applications*
Entrepreneurship*

Fundamentals of Business, Marketing and Finance*
Insurance and Risk Management
Marketing*
Professional and Leadership Development
Professional Sales*
Workplace Communications*

Healthcare and Human Services

Supporting the Whole Health of Individuals, Families, and Communities: The Healthcare & Human Services Career Cluster promotes holistic well-being in individuals and communities through a diverse array of services. This includes technical, mental, therapeutic, and personal care, supported by medical and social sciences. By addressing social determinants of health and leveraging health data and science, this cluster aims to enhance the overall health and resilience of individuals, families, and communities.

Table 24: Healthcare and Human Services Courses

Course Code	Course Title for *Healthcare & Human Services* Cluster
5520	Practical Nursing, Phase 1
5524	Introduction to Behavioral Health
5531	Emergency Medical Services 1
5532	Emergency Medical Services 2
5533	Emergency Medical Services 3
5540	Medical Terminology
5550	Healthcare Science 1 – Foundations of Healthcare Professionals
5551	Healthcare Science 2 – Essential Healthcare Practices
5552	Healthcare Science – Human Structure, Function & Disease
5555	Sports Medicine 1
5556	Sports Medicine 2
5557	Sports Medicine 3
5560	Healthcare Science Clinical Study
5561	**Healthcare Science Clinical Study – Healthcare Documentation & Coding**
5562	**Healthcare Science Clinical Study – EKG Technician**
5563	**Healthcare Science Clinical Study – Patient Care Technician**
5564	**Healthcare Science Clinical Study – Medical Assisting**
5565	**Healthcare Science Clinical Study – Phlebotomy**
5566	**Healthcare Science Clinical Study – Certified Nurse Aid**
5570	Pharmacology for Medical Careers
5580	PLTW – Principles of Biomedical Sciences
5581	PLTW – Human Body Systems
5582	PLTW – Medical Interventions
5583	PLTW – Biomedical Innovation
5584	Medical Billing and Coding
5586	Foundations of Public Health
5587	Advanced Principles of Public Health
5589	Public Health Capstone
5757	Food Science 1
5758	Food Science 2

Course Code	Course Title for *Healthcare & Human Services* Cluster
6145	Introduction to Natural Hair Braiding
6146	Natural Hair Braiding 1
6147	Natural Hair Braiding 2
6150	Cosmetology 1
6151	Cosmetology 2
6152	Cosmetology 3
6153	Cosmetology 4
6154	Nail Technology 1
6155	Nail Technology 2
6156	Nail Technology 3
6157	Nail Technology 4
6158	Barber/Master Hair Care 1
6159	Barber/Master Hair Care 2
6160	Barber/Master Hair Care 3
6161	Barber/Master Hair Care 4
6162	Esthetics 1
6163	Esthetics 2
6164	Esthetics 3
6165	Esthetics 4
6166	Esthetics 5
5588	Public Health Internship, Work-Based Credit
5590	Healthcare Science Internship, Work-Based Credit
5591	Sports Medicine Internship, Work-Based Credit
5790	Human Services Internship, Work-Based Credit

Table 25: Healthcare and Human Services CIP Coded Programs

CIP Code	**Program Title** (See below for the approved courses for each CTE program)
120402	Barber/Master Hair Care
260102	Biomedical Sciences (Project Lead the Way)
120401	Cosmetology
510999	EMS
120409	Esthetics
190501	Food Science
510000	Healthcare Science
120410	Nail Technology
120407	Natural Hair Braiding
513999	Practical Nursing
512208	Public Health
310505	Sports Medicine

The required courses to earn completer status for the state recognized CTE programs are identified below. Courses must be offered for the designated number of Carnegie units specified in the Course Code Database.

Note: At least one of the courses designated with an asterisk (*) should be selected for the three (3) Carnegie unit programs to meet state recognized program requirements.

120402 – Barber/Master Hair Care

The Barber/Master Hair Care CIP-coded program requires a minimum of eight (8) Carnegie units and completion of 1540 hours. ***The concentrator courses are identified with ***.***

Barber/Master Hair Care 1**
Barber/Master Hair Care 2**
Barber/Master Hair Care 3
Barber/Master Hair Care 4

260102 – Biomedical Sciences

The Biomedical Sciences CIP-coded program requires a minimum of three (3) Carnegie units. ***The concentrator courses are identified with **.***

PLTW – Human Body Systems**
PLTW – Principles of Biomedical Sciences**

Additional approved courses to meet state recognized program requirements:
Emergency Medical Services 1
Emergency Medical Services 2
Healthcare Science – Human Structure, Function & Disease*
Healthcare Science 1 – Foundations of Healthcare Professionals
Healthcare Science 2 – Essential Healthcare Practices
Introduction to Behavioral Health*
Medical Terminology*
Pharmacology for Medical Careers
PLTW – Biomedical Innovation
PLTW – Medical Interventions*
Sports Medicine 1
Sports Medicine 2

120401 – Cosmetology

The Cosmetology CIP-coded program requires a minimum of eight (8) Carnegie units and completion of 1540 hours. ***The concentrator courses are identified with **.***

Cosmetology 1**
Cosmetology 2**
Cosmetology 3
Cosmetology 4

510999 – EMS

The EMS CIP-coded program requires a minimum of three (3) Carnegie units. ***The concentrator courses are identified with **.***

Emergency Medical Services 1**
Emergency Medical Services 2**

Additional approved courses to meet state recognized program requirements:
Emergency Medical Services 3*
Healthcare Science – Human Structure, Function & Disease*
Healthcare Science 1 – Foundations of Healthcare Professionals

Healthcare Science 2 – Essential Healthcare Practices
Introduction to Behavioral Health*
Medical Terminology*
Pharmacology for Medical Careers
PLTW – Human Body Systems*
PLTW – Principles of Biomedical Sciences
Sports Medicine 1
Sports Medicine 2

120409 – Esthetics

The Esthetics CIP-coded program requires a minimum of five (5) Carnegie units and completion of 600 hours. ***The concentrator courses are identified with **.***

Esthetics 1**
Esthetics 2**
Esthetics 3
Esthetics 4
Esthetics 5

510000 – Healthcare Science

The Healthcare Science CIP-coded program requires a minimum of three (3) Carnegie units. ***The concentrator courses are identified with **.***

Healthcare Science 1 – Foundations of Healthcare Professionals**
Healthcare Science 2 – Essential Healthcare Practices**

Additional approved courses to meet state recognized program requirements:
Advanced Principles of Public Health
Emergency Medical Services 1
Emergency Medical Services 2
Foundations of Public Health
Healthcare Science – Human Structure, Function & Disease*
Healthcare Science Clinical Study
Introduction to Behavioral Health
Introduction to Veterinary Science
Medical Billing and Coding
Medical Terminology*
Pharmacology for Medical Careers
PLTW – Human Body Systems*
PLTW – Principles of Biomedical Sciences
Practical Nursing, Phase 1
Sports Medicine 1

Sports Medicine 2

120410 – Nail Technology

The Nail Technology CIP-coded program requires a minimum of three (3) Carnegie units and completion of 360 hours. ***The concentrator courses are identified with **.***

Nail Technology 1**
Nail Technology 2**
Nail Technology 3

Additional approved courses to meet state recognized program requirements:
Nail Technology 4

120407 – Natural Hair Braiding

The Natural Hair Braiding CIP-coded program requires a minimum of (3) Carnegie units and completion of 360 hours. ***The Concentrator courses are identified with **.***

Natural Hair Braiding 1**
Natural Hair Braiding 2**

Additional approved courses to meet state recognized program requirements:
Accounting 1*
Entrepreneurship*
Introduction to Natural Hair Braiding*
Fundamentals of Computing*
Fundamentals of Web Page Design and Development*
Marketing*

513999 – Practical Nursing

Practical Nursing, Phase 1

Healthcare Science 1 – Foundations of Healthcare Professionals**
Healthcare Science 2 – Essential Healthcare Practices**
Or
Emergency Medical Services 1**
Emergency Medical Services 2**
Or
Sports Medicine 1**
Sports Medicine 2**
Or
PLTW – Principles of Biomedical Sciences**
PLTW – Human Body Systems**

512208 – Public Health

The Public Health CIP-coded program requires a minimum of three (3) Carnegie units. ***The concentrator courses are identified with ***.***

Foundations of Public Health**
Advanced Principles of Public Health**

Additional approved courses to meet state recognized program requirements:
Healthcare Science 1 – Foundations of Healthcare Professionals*
Healthcare Science 2 – Essential Healthcare Practices
Healthcare Science Human Structure Function and Disease
Introduction to Behavioral Health*
Medical Terminology
PLTW Human Body Systems
Public Health Capstone
PLTW Principles of Biomedical Science*

310505 – Sports Medicine

The Sports Medicine CIP-coded program requires a minimum of three (3) Carnegie units.
The concentrator courses are identified with **.

Sports Medicine 1**
Sports Medicine 2**

Additional approved courses to meet state recognized program requirements:
Emergency Medical Services 1
Emergency Medical Services 2
Healthcare Science – Human Structure, Function & Disease*
Healthcare Science 1 – Foundations of Healthcare Professionals
Healthcare Science 2 – Essential Healthcare Practices
Introduction to Behavioral Health
Pharmacology for Medical Careers
PLTW – Human Body Systems*
PLTW – Principles of Biomedical Sciences
Sports Medicine 3*
Sports Nutrition*
Medical Terminology*

Hospitality, Events and Tourism

Unlocking Adventure and Elevating Experiences: The Hospitality, Events and Tourism Career Cluster encompasses a broad range of services and experiences related to food and beverage, lodging, travel, events, and conferences. This cluster focuses on delivering quality customer service, memorable experiences, and seamless logistics to cater to the needs and preferences of guests, travelers, and event participants. This sector is characterized by its diversity, including everything from luxury hotels and international travel to local dining, cultural events, and business conferences, aiming to enhance the overall experience of visitors and attendees.

Table 26: Hospitality, Events, and Tourism Courses

Course Code	Course Title for *Hospitality, Events and Tourism* Cluster
5460	Safety and Sanitation
5473	Lodging Management
5474	Travel and Tourism Management
5475	Event and Entertainment Management
5478	Introduction to Hospitality and Tourism Management
5720	Culinary Arts Management 1
5721	Culinary Arts Management 2
5722	Introduction to Culinary Arts Management
5723	Baking and Pastry
5724	Advanced Baking and Pastry
5190	Hospitality, Events, & Tourism Internship, Work-Based Credit

Table 27: Hospitality, Events and Tourism Cambridge Courses

Course Code	Course Title for *Hospitality, Events and Tourism Cluster*: Cambridge
81D100GWBBI	AS Travel and Tourism
81D000GW	A Travel and Tourism

Table 28: Hospitality, Events, and Tourism CIP Coded Programs

CIP Code	**Program Title** (See below for the approved courses for each CTE program)
120501	Baking and Pastry
520905	Culinary Arts Management
520904	Hospitality and Tourism Management

The required courses to earn completer status for the state recognized CTE programs are identified below. Courses must be offered for the designated number of Carnegie units specified in the Course Code Database.

Note: At least one of the courses designated with an asterisk (*) should be selected for the three (3) Carnegie unit completer status, to meet state recognized program requirements.

120501 – Baking and Pastry

The Baking and Pastry CIP-coded program requires a minimum of four (4) Carnegie units.
The concentrator courses are identified with ***.

Baking and Pastry**
Advanced Baking and Pastry**

Baking and Pastry and Advanced Baking and Pastry are two (2) Carnegie units each.

Additional approved courses to meet state recognized program requirements:
Accounting 1*
Culinary Arts Management 1*
Digital Workplace Applications
Entrepreneurship*
Event and Entertainment Management*
Foods and Nutrition 1*
Fundamentals of Computing*
Fundamentals of Web Page Design and Development
Introduction to Culinary Arts Management*
Introduction to Hospitality and Tourism Management
Nutrition and Wellness
Safety and Sanitation*

520905 – Culinary Arts Management

The Culinary Arts Management CIP-coded program requires a minimum of three (3) Carnegie units. ***The concentrator courses are identified with **.***

Culinary Arts Management 1**
Culinary Arts Management 2**
Or
Culinary Arts Management 1**
Baking and Pastry**

Additional approved courses to meet state recognized program requirements:
Accounting 1*
Digital Workplace Applications
Entrepreneurship*
Event and Entertainment Management*
Foods and Nutrition 1*
Fundamentals of Computing*
Fundamentals of Web Page Design and Development
Introduction to Culinary Arts Management*
Introduction to Hospitality and Tourism Management*
Mental Health Fitness
Nutrition and Wellness*
Safety and Sanitation*
Sports Nutrition*

520904 – Hospitality and Tourism Management

The Hospitality and Tourism Management CIP-coded program requires a minimum of three (3) Carnegie units. ***The concentrator courses are identified with **.***

Introduction to Hospitality and Tourism Management**

Select one course from below for the second concentrator course and at least two (2) courses for completer status:
Event and Entertainment Management** or Sports Entertainment Management**
Lodging Management**
Travel and Tourism Management** or AS Travel and Tourism** or A Travel and Tourism**
Culinary Arts Management 1**

Additional approved courses to meet state recognized program requirements:
Accounting 1
Culinary Arts Management 1
Digital Workplace Applications

Entrepreneurship
Foods and Nutrition 1
Fundamentals of Computing
Fundamentals of Web Page Design and Development
Introduction to Culinary Arts Management
Marketing Management
Mental Health Fitness
Safety and Sanitation
Sports and Entertainment Management
Sports and Entertainment Marketing

Management & Entrepreneurship

Driving Business Success Across All Industries: The Management & Entrepreneurship Career Cluster involves skills and occupations that are essential across all industries, focusing on optimizing operations, strategic planning, and workforce management. It merges key areas such as accounting, data management and analysis, human resources, general operations, project management, and leadership. This cluster ensures businesses of all sizes and types efficiently meet their goals, adapt to market changes, and maintain competitive advantage.

Table 29: Management & Entrepreneurship Courses

Course Code	Course Title for *Management & Entrepreneurship Cluster*
5007	Google Applications
5020	Digital Workplace Applications
5021	Business Data Applications
5030	Digital Multimedia
5032	International Business
5041	Workplace Communications
5044	Business Law
5049	Advanced Business Law
5090	Fundamentals of Business, Marketing and Finance
5092	Business Principles and Management
5093	Fundamentals of Human Resource Management
5122	Administrative Support Technology
5150	Virtual Enterprise 1
5151	Virtual Enterprise 2
5152	Virtual Enterprise 3
5153	Virtual Enterprise 4
5176	Digital Publication Design
5178	Professional and Leadership Development
5180	Digital Technologies
5270	Principles of Digital Technology
5340	Image Editing
5400	Entrepreneurship
5480	Fundamentals of Project Management
5490	Management & Entrepreneurship Internship, Work-Based Credit

Table 30: Management & Entrepreneurship CIP Coded Programs

CIP Code	**Program Title** (See below for the approved courses for each CTE program)
520401	Administrative Services
520208	Business Information Management *(521206 Old Code Phasing Out)*
520201	General Management
521001	Human Resources Management
520204	Operations Management

The required courses to earn completer status for the state recognized CTE programs are identified below. Courses must be offered for the designated number of Carnegie units specified in the Course Code Database.

Note: At least one of the courses designated with an asterisk (*) should be selected for the three (3) Carnegie unit programs to meet state recognized program requirements.

520401 – Administrative Services

The Administrative Services CIP-coded program requires a minimum of three (3) Carnegie units. ***The concentrator courses are identified with ***.***

Administrative Support Technology**
Digital Workplace Applications**

Additional approved courses to meet state recognized program requirements:
Accounting 1*
Advanced Business Law
Advanced Web Page Design and Development
Business Data Applications*
Business Law*
Business Principles and Management*
Digital Publication Design*
Digital Technologies
Entrepreneurship*
Fundamentals of Business, Marketing and Finance*
Fundamentals of Web Page Design and Development*
Google Applications
Image Editing*
International Business*

Principles of Digital Technology
Professional and Leadership Development*
Social Media Marketing
Workplace Communications*

520208 – Business Information Management

The Business Information Management CIP-coded program requires a minimum of three (3) Carnegie units. ***The concentrator courses are identified with **.***

Digital Publication Design**
Image Editing**

Additional approved courses to meet state recognized program requirements:
Accounting 1*
Advanced Web Page Design and Development
Advertising
Business Data Applications*
Business Law
Business Principles and Management*
Digital Multimedia*
Digital Technologies*
Digital Workplace Applications*
Discovering Computer Science*
Entrepreneurship*
Foundations of Animation*
Fundamentals of Business, Marketing, and Finance*
Fundamentals of Computing*
Fundamentals of Project Management
Fundamentals of Web Page Design and Development*
Google Applications*
IT Fundamentals
Principles of Digital Technology
Professional Leadership Development*
Social Media Marketing
Workplace Communications*

520201 – General Management

The General Management CIP-coded program requires a minimum of three (3) Carnegie units. ***The concentrator courses are identified with **.***

Accounting 1**
Entrepreneurship**

Additional approved courses to meet state recognized program requirements:
Accounting 2*
Advanced Business Law
Business Data Applications*
Business Finance
Business Law*
Business Principles and Management*
Digital Workplace Applications*
Fundamentals of Business, Marketing and Finance
Fundamentals of Human Resource Management*
Fundamentals of Project Management
Fundamentals of Webpage Design and Development*
Google Applications
International Business*
Marketing Management
Marketing*
Natural Hair Braiding 1*
Advanced Personal Finance
Professional and Leadership Development*
Social Media Marketing*
Virtual Enterprise 1*
Virtual Enterprise 2
Virtual Enterprise 3
Virtual Enterprise 4
Workplace Communications*

521001 – Human Resources Management

The Human Resources Management CIP-coded program requires a minimum of three (3) Carnegie units. ***The concentrator courses are identified with **.***

Business Law**
Fundamentals of Human Resource Management**

Additional approved courses to meet state recognized program requirements:
Business Data Applications*
Business Principles and Management*
Digital Publication Design
Digital Workplace Applications*
Entrepreneurship
Fundamentals of Business, Marketing, and Finance*
Google Applications
International Business
Advanced Personal Finance*
Professional and Leadership Development*
Workplace Communications*

520204 – Operations Management

The Operations Management CIP-coded program requires a minimum of three (3) Carnegie units. ***The concentrator courses are identified with **.***

Virtual Enterprise 1**
Virtual Enterprise 2**

Additional approved courses to meet state recognized program requirements:
Accounting 1*
Accounting 2
Advanced Business Law
Business Data Applications*
Business Law*
Business Principles and Management*
Digital Publication Design
Digital Technologies
Digital Workplace Applications*
Entrepreneurship*
Fundamentals of Business, Marketing, and Finance*
Fundamentals of Project Management
Google Applications
Image Editing*
International Business*
Marketing
Professional and Leadership Development
Social Media Marketing
Virtual Enterprise 3*
Virtual Enterprise 4*
Workplace Communications*

Marketing & Sales

Improving Communications and Connections: The Marketing & Sales Career Cluster focuses on promoting products, understanding consumer needs, engaging with communities, and driving sales. It integrates digital marketing, data analysis, brand promotion, customer relationship management, human-centered design, and retail strategies to build strong customer connections and support business growth. This cluster is essential for creating value, ensuring public transparency, and achieving commercial success in a competitive marketplace.

Table 31: Marketing & Sales Courses

Course Code	Course Title for *Marketing & Sales Cluster*
5034	Social Media Marketing
5410	Fashion Marketing
5421	Marketing
5422	Digital Media Marketing
5423	Marketing Analytics
5425	Sports and Entertainment Marketing
5426	Sports and Entertainment Management
5430	Merchandising
5431	Marketing Management
5450	Fundamentals of Real Estate Practice
5451	Advanced Real Estate Practice
5470	Advertising
5471	Professional Sales
5091	Marketing & Sales Internship, Work-Based Credit

Table 32: Marketing & Sales CIP Coded Programs

CIP Code	**Program Title** (See below for the approved courses for each CTE program)
521402	Marketing Analytics
090903	Marketing Communications
521401	Marketing Management
521802	Merchandising
521501	Real Estate

The required courses to earn completer status for the state recognized CTE programs are identified below. Courses must be offered for the designated number of Carnegie units specified in the Course Code Database.

Note: At least one of the courses designated with an asterisk (*) should be selected for the three (3) Carnegie unit programs to meet state recognized program requirements.

521402 – Marketing Analytics

The Marketing Analytics CIP-coded program requires a minimum of three (3) Carnegie units. ***The concentrator courses are identified with ***.***

Marketing**
Marketing Analytics**

Additional approved courses to meet state recognized program requirements:
Accounting 1*
Advertising
Business Data Applications*
Digital Workplace Applications*
Entrepreneurship*
Fundamentals of Business, Finance, and Marketing*
Google Applications*
Merchandising
Professional and Leadership Development*
Professional Sales
SAS Programming 1*
SAS Programming 2
Social Media Marketing*
Sports and Entertainment Marketing
Virtual Enterprise 1*
Virtual Enterprise 2
Virtual Enterprise 3
Virtual Enterprise 4
Workplace Communications*

090903 – Marketing Communications

The Marketing Communications CIP-coded program requires a minimum of three (3) Carnegie units. ***The concentrator courses are identified with **.***

Advertising** or Digital Media Marketing**
Marketing**

Additional approved courses to meet state recognized program requirements:
Accounting 1*
Advanced Web Page Design and Development
Advertising*
Business Data Applications*
Digital Media Marketing*
Digital Multimedia*
Digital Publication Design*
Digital Workplace Applications*
Image Editing*
Entrepreneurship*
Fundamentals of Business, Finance, and Marketing*
Fundamentals of Web Page Design and Development*
Google Applications*
Marketing Analytics*
Professional and Leadership Development*
Professional Sales*
Social Media Marketing*
Sports and Entertainment Marketing*
Virtual Enterprise 1*
Virtual Enterprise 2
Virtual Enterprise 3
Virtual Enterprise 4
Workplace Communications*

521401 – Marketing Management

The Marketing Management CIP-coded program requires a minimum of three (3) Carnegie units. ***The concentrator courses are identified with **.***

Marketing**
Marketing Management** or Sports and Entertainment Management**

Additional approved courses to meet state recognized program requirements:
Accounting 1*
Accounting 2

Advertising
Business Data Applications*
Business Finance*
Business Law*
Business Principles and Management*
Digital Workplace Applications
Entrepreneurship*
Event and Entertainment Management
Fundamentals of Business, Finance, and Marketing*
Fundamentals of Human Resource Management*
Fundamentals of Project Management*
Google Applications
Introduction to Hospitality and Tourism*
Marketing Analytics
Professional and Leadership Development*
Professional Sales
Social Media Marketing*
Sports and Entertainment Marketing*
Travel and Tourism Management
Virtual Enterprise 1
Virtual Enterprise 2
Virtual Enterprise 3
Virtual Enterprise 4
Workplace Communications*

521802 – Merchandising

The Merchandising CIP-coded program requires a minimum of three (3) Carnegie units.
The concentrator courses are identified with **.

Marketing**
Merchandising**

Additional approved courses to meet state recognized program requirements:
Accounting 1*
Advanced Web Page Design and Development
Advertising*
Business Data Applications*
Digital Multimedia*
Digital Publication Design
Digital Workplace Applications*
Entrepreneurship*
Fashion Marketing*
Fundamentals of Business, Finance, and Marketing*

Fundamentals of Web Page Design and Development*
Google Applications*
Image Editing
Marketing Analytics
Professional and Leadership Development*
Professional Sales
Social Media Marketing*
Sports and Entertainment Marketing*
Workplace Communications*

521501 – Real Estate

The Real Estate CIP-coded program requires a minimum of three (3) Carnegie units. ***The concentrator courses are identified with ***.***

Fundamentals of Real Estate Practice **
Advanced Real Estate Practice **

Additional approved courses to meet state recognized program requirements:
Digital Media Marketing*
Entrepreneurship*
Fundamentals of Business, Finance, and Marketing*
Housing and Interiors 1
Marketing*
Professional Sales*

Public Service & Safety

Shaping, Serving, and Protecting our Communities: The Public Service & Safety Career Cluster encompasses roles in local, state, and federal government, legal and justice systems, security, and military operations, all aimed at promoting civic responsibility, and ensuring the well-being, security, and functionality of communities, states, and countries.

Table 33: Public Service & Safety Courses

Course Code	Course Title for *Public Service & Safety* Cluster
3751	JROTC 1
3752	JROTC 2
3753	JROTC 3
3754	JROTC 4
6505	Introduction to Law, Public Safety, Corrections & Security
6510	Law Enforcement Services 1
6511	Law Enforcement Services 2
6514	Fire Fighter 1
6515	Fire Fighter 2
6516	Fire Fighter 3
6526	Legal Systems Technology 1
6527	Legal Systems Technology 2
6570	Foundation of Leadership
6571	Principles of Public Management and Administration
6572	Community and Regional Planning
6585	Military Science 1
6586	Military Science 2
6587	Military Science 3
6588	Military Science 4
6589	JROTC Internship, Work-Based Credit
6580	Judicial Systems Internship, Work-Based Credit
6590	Public Service & Safety Internship, Work-Based Credit

Table 34: Public Service & Safety CIP Coded Programs

CIP Code	**Program Title** (See below for the approved courses for each CTE program)
430203	Emergency and Fire Management Services
440501	Governance
430107	Law Enforcement Services
220301	Paralegal Systems Technology
440401	Public Management and Administration
280101	Air Force JROTC
280301	Army JROTC
280505	Coast Guard JROTC
280401	Marine Corps JROTC
280499	Navy JROTC
280502	Space Force JROTC

The required courses to earn completer status for the state recognized CTE programs are identified below. Courses must be offered for the designated number of Carnegie units specified in the Course Code Database.

430203 – Emergency and Fire Management Services

The Emergency and Fire Management Services CIP-coded program requires a minimum of three (3) Carnegie units. ***The concentrator courses are identified with**.***

Fire Fighter 1**
Fire Fighter 2**

Additional approved courses to meet state recognized program requirements:
Fire Fighter 3
Introduction to Law, Public Safety, Corrections and Security
Emergency Medical Services 3

440501 – Governance

The Governance CIP-coded program requires a minimum of three (3) Carnegie units.
The concentrator courses are identified with**.

Community and Regional Planning**
Foundation of Leadership**
Business Law

430107 – Law Enforcement Services

The Law Enforcement Service CIP-coded program requires a minimum of three (3) Carnegie units. ***The concentrator courses are identified with**.**

Law Enforcement Services 1**
Law Enforcement Services 2**
Introduction to Law, Public Safety, Corrections and Security

220301 – Paralegal Systems Technology

The Paralegal Systems Technology CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with**.**

Legal Systems Technology 1**
Legal Systems Technology 2**
Advanced Business Law
Business Law

440401 – Public Management and Administration

The Public Management and Administration CIP-coded program requires a minimum of three (3) Carnegie units. ***The concentrator courses are identified with**.**

Foundation of Leadership**
Principles of Public Management and Administration**
Fundamentals of Project Management

JROTC CTE Guidelines

The Office of Career Readiness is excited to include JROTC as state approved CTE programs.

For comprehensive guidance on JROTC programs, please refer to the published JROTC Guidelines available on the SCDE website.

The fifth and sixth characters of the Course ID for PowerSchool entry designate the specific branch of the military.

Air Force – 01; Army – 02; Coast Guard – 03; Marine Corps – 04; Navy – 05; and Space Force – 06.

Each district will determine their specific branch of service for the completer program status to be added into PowerSchool. For example, for a student following the Air Force JROTC completer program, the following Course IDs will be entered: JROTC 1 - 375101CW, JROTC 2 - 375201CW, JROTC 3 - 375301CW and JROTC 4 - 375401CW.

280101 – Air Force JROTC

The Air Force JROTC CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Air Force JROTC 1**
Air Force JROTC 2**
Air Force JROTC 3
Air Force JROTC 4

280301 – Army JROTC

The Army JROTC CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Army JROTC 1**
Army JROTC 2**
Army JROTC 3
Army JROTC 4

280505 – Coast Guard JROTC

The Coast Guard JROTC CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Coast Guard JROTC 1**
Coast Guard JROTC 2**
Coast Guard JROTC 3
Coast Guard JROTC 4

280401 – Marine Corps JROTC

The Marine Corps JROTC CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Marine Corps JROTC 1**
Marine Corps JROTC 2**
Marine Corps JROTC 3
Marine Corps JROTC 4

280499 – Navy JROTC

The Navy JROTC CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Navy JROTC 1**
Navy JROTC 2**
Navy JROTC 3
Navy JROTC 4

280502 – Space Force JROTC

The Space Force JROTC CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Space Force JROTC 1**
Space Force JROTC 2**
Space Force JROTC 3
Space Force JROTC 4

Supply Chain & Transportation

Driving Efficiency and Streamlining Tomorrow's Transport: The Supply Chain & Transportation Career Cluster encompasses the movement, coordination and management of goods from production to consumption, ensuring efficient movement across various modes of transportation including air, ground, and water, as well as maintenance of the respective transport modes. This cluster integrates logistics and distribution networks to facilitate the seamless flow of materials and products, playing a crucial role in global commerce, economic development, and community health.

Table 35: Supply Chain & Transportation Courses

Course Code	Course Title for *Supply Chain & Transportation* Cluster
57T1	Drone Technologies 1: Theory and Aeronautical Basics
57T2	Drone Technologies 2: Theory and Design
57T3	Drone Technologies 3: Learn to Fly
6015	Introduction to Transportation, Distribution, and Logistics
6020	Automotive Collision Repair Technology 1
6021	Automotive Collision Repair Technology 2
6022	Automotive Collision Repair Technology 3
6023	Automotive Collision Repair Technology 4
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
6191	Introduction to Logistics
6192	Functional Areas in Logistics
6193	Global Logistics Management
6194	Logistics and Supply Chain Management
6300	Power Equipment Technology 1
6301	Power Equipment Technology 2
6302	Power Equipment Technology 3
6303	Power Equipment Technology 4
6310	Diesel Engine Technology 1
6311	Diesel Engine Technology 2
6312	Diesel Engine Technology 3
6313	Diesel Engine Technology 4
6318	Commercial Driving License 1
6319	Commercial Driving License 2
6320	Commercial Driving License 3
6321	Commercial Driving License 4
6790	Supply Chain & Transportation Internship, Work-Based Credit

Table 36: Supply Chain & Transportation CIP Coded Programs

CIP Code	**Program Title** (See below for the approved courses for each CTE program)
470603	Automotive Collision Repair Technology
470604	*Automotive and Hybrid/BEV Technology*
490205	Commercial Vehicle Operation
470605	Diesel Engine Technology
490109	Drone Technology
520203	Global Logistics & Supply Chain Management
470606	Power Equipment Technology

The required courses to earn completer status for the state recognized CTE programs are identified below. Courses must be offered for the designated number of Carnegie units specified in the Course Code Database.

470603 – Automotive Collision Repair Technology

The Automotive Collision Repair Technology CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Automotive Collision Repair Technology 1**
Automotive Collision Repair Technology 2**
Automotive Collision Repair Technology 3
Automotive Collision Repair Technology 4

470604 – Automotive Technology and Hybrid/BEV Technology

The Automotive and Hybrid/BEV Technology CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Automotive Technology and Hybrid/BEV Technology 1**
Automotive Technology and Hybrid/BEV Technology 2**
Automotive Technology and Hybrid/BEV Technology 3
Automotive Technology and Hybrid/BEV Technology 4

490205 – Commercial Vehicle Operation

The Commercial Vehicle Operation CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Commercial Driving License 1 **
Commercial Driving License 2 **
Commercial Driving License 3
Commercial Driving License 4

470605 – Diesel Engine Technology

The Diesel Engine Technology CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Diesel Engine Technology 1**
Diesel Engine Technology 2**
Diesel Engine Technology 3
Diesel Engine Technology 4

490109 – Drone Technology

The Drone Technology CIP-coded program requires a minimum of three (3) Carnegie units. ***The concentrator courses are identified with **.***

Drone Technologies 1: Theory and Aeronautical Basics**
Drone Technologies 2: Theory and Design**
Drone Technologies 3: Learn to Fly*

520203 – Global Logistics and Supply Chain Management

The Global Logistics & Supply Chain Management CIP-coded program requires a minimum of four (4) Carnegie units. ***The concentrator courses are identified with **.***

Introduction to Logistics**
Functional Areas in Logistics**
Global Logistics Management
Logistics and Supply Chain Management

470606 – Power Equipment Technology

*The Power Equipment Technology CIP-coded program requires a minimum of four (4) Carnegie units****. The concentrator courses are identified with ******.

Power Equipment Technology 1**
Power Equipment Technology 2**
Power Equipment Technology 3
Power Equipment Technology 4

Appendix A: Middle School CTE Courses

Table 37: No High School Credit (Sixth Grade)

Course Code	Course Title
1780	PLTW – (Gateway to Technology) Design and Modeling
1781	PLTW – (Gateway to Technology) Automation and Robotics
1782	PLTW – (Gateway to Technology) App Creators
1783	PLTW – (Gateway to Technology) Energy and the Environment
1784	PLTW – (Gateway to Technology) Flight and Space
1785	PLTW – (Gateway to Technology) Computer Science for Innovators and Makers
1786	PLTW – (Gateway to Technology) Science of Technology
1787	PLTW – (Gateway to Technology) Magic of Electrons
1788	PLTW – (Gateway to Technology) Green Architecture
1789	PLTW – (Gateway to Technology) Medical Detectives
1830	Introduction to Career Clusters
1840	Industrial Technology Education
1853	Digital Literacy
1856	Introduction to Agriculture
1858	Exploratory Family and Consumer Sciences

Table 38: No High School Credit (Seventh and Eighth Grades)

Course Code	Course Title
2702	Computer Applications
2703	Multimedia Basics
2704	Google Basics
2705	Financial Literacy *(Phasing Out June 30, 2025)*
2706	Keyboarding
2780	PLTW – (Gateway to Technology) Design and Modeling
2781	PLTW – (Gateway to Technology) Automation and Robotics
2782	PLTW – (Gateway to Technology) App Creators
2783	PLTW – (Gateway to Technology) Energy and the Environment
2784	PLTW – (Gateway to Technology) Flight and Space
2785	PLTW – (Gateway to Technology) Computer Science for Innovators and Makers
2786	PLTW – (Gateway to Technology) Science of Technology
2787	PLTW – (Gateway to Technology) Magic of Electrons
2788	PLTW – (Gateway to Technology) Green Architecture
2789	PLTW – (Gateway to Technology) Medical Detectives
2791	Fundamentals of Healthcare

Course Code	Course Title
2830	Introduction to Career Clusters
2839	Introduction to Health Professions
2840	Industrial Technology Education
2845	Fundamentals of Science and Technology
2846	Applications of Science and Technology
2853	Digital Literacy
2856	Introduction to Agriculture
2857	Introduction to Family and Consumer Service Sciences 1
2858	Introduction to Family and Consumer Service Sciences 2

CTE Courses Taught in Middle School

S.C. Code Ann. Regs. 43-232 Defined Program 6–8 states:

> 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. The number of high school credits permitted at the middle school or junior high school level must be determined by the local school district.

Therefore, CTE courses may be offered for high school credit at the middle school level if students have met all course prerequisites and the middle school instructor meets the educator credential requirements associated with the high school CTE course.

Table 39: Middle School Courses Awarding Carnegie Units

Course Code	Middle School Course Title
5028	Fundamentals of Computing Part 1
5029	Fundamentals of Computing Part 2
5062	Discovering Computer Science Part 1
5063	Discovering Computer Science Part 2

The above middle school–specific courses may be taught for high school credit in grades 7 and 8. Students must earn one credit in computer science to satisfy South Carolina High School Graduation Requirements. Therefore, middle school students must complete both Part 1 and Part 2 courses to meet this graduation requirement.

Students who complete only one half-credit course in middle school will not meet the one credit computer science graduation requirement and must complete a one credit computer science course at the high school level. The half-credit earned in middle school may be used as an elective credit.

Appendix B: Certifications

Tiered Certification Framework

In June 2025, the South Carolina Education Oversight Committee (EOC) unanimously approved the state's Tiered Certification System, a structured framework designed to align student certification attainment with workforce priorities, employer demand, and long-term career advancement opportunities. The system classifies industry-recognized certifications into three tiers:

- Tier 1 – Introductory: Entry-level certification earned early in a CTE program sequence.
- Tier 2 – Intermediate: Certifications requiring additional coursework, skills, or specialized knowledge.
- Tier 3 – Career Ready: High-rigor certifications that demonstrate career readiness and are recognized by employers for hiring or advancement.

Each tier reflects the certification's relevance to high-demand, high-wage occupations and its impact on future employability.

Table 40: Detailed Tier Descriptors

Tier 1	Tier 2	Tier 3
Introductory	Intermediate	Career Ready
• **1 point** • **Foundational Skills**: Validates basic competencies for further education or training. • **Regionally Recognized**: Accepted by local industries but not statewide hiring requirement. • **Early Career Pathway**: Earned in the first stages of a CTE program, leading to higher-level certifications.	• **2 points** • **Industry-Aligned**: Valued by employers but not always required for hiring. • **Supports Career Pathways**: Provides an employment advantage and job readiness. • **Enhances Workforce Participation**: Increases employability, but additional training may be needed for advancement.	• **3 points** • **High-Demand Careers**: Required for employment in priority, high-wage occupations. • **Clear Economic Benefits**: Leads to significant wage gains, promotions, or job retention. • **Career Advancement**: Recognized entry point into further education, training, and certifications.

Tiered Certification Career Readiness Requirements

Beginning with the **2025–26 academic year**, students who entered 9th grade in the 2024–25 and 2025–26 school years (referred to as the 9GR25 and 9GR26 cohorts) will be evaluated under the new three-tiered system. To be designated Career Ready for state accountability purposes, these students must earn a **minimum of three points** by completing one of the following options:

- One **Tier 3** certification aligned to their career cluster
- A combination of two **Tier 2** certifications or a combination of a **Tier 2** and a **Tier 1** certification that are aligned to their career cluster
- A **Universal Certification** (e.g., OSHA 10) paired with a **Tier 2** Certification aligned to their cluster

Students *cannot* combine multiple Tier 1 certifications *or* multiple Universal certifications to meet the three-point requirement.

To be considered Career Ready, a student's earned certifications must align with their designated program of study and career cluster. Certifications earned outside of the student's career cluster or program of study will not count toward Career Ready status.

For detailed information on the Tiered Certification Framework, please see the Tiered Certification Framework Guide.

Note: Students who entered 9th grade during the 2023-24 school year or earlier (the 9GR24 cohort and earlier) will continue to be evaluated under the previous single-tier system (CR Yes/No). These students must earn a certification from the state-approved list that carries a Career Ready designation to meet accountability requirements.

List of Approved Tiered Certifications

Note: While previously included in the Student Reporting Procedures Guide, the list of approved certifications has been moved to the Tiered Certification Framework Guide and the List of Approved Tiered Certifications. Please refer to those documents for details regarding student certifications.

Appendix C: Dual Credit Course Equivalencies

The following courses have been approved as equivalent to a state-recognized CTE course and may be used toward CTE program completer status. Please refer to the South Carolina Course Code Database for the most current list of approved dual credit equivalent courses.

Note: Dual credit courses approved for use as CTE equivalents will include the statement, "This course is equated to #### when used as dual credit for completer status." The four-digit course code shown in place of the #### identifies the corresponding approved CTE course.

Table 41: Dual Credit Course Equivalencies

Course Code	Course Name	Notes
6540	Dual Enrollment Police Community Relations (CRJ 224)	This course is equated to 6511 when used as dual credit for completer status.
8831	Dual Enrollment Ethics in Criminal Justice (CRJ 222)	This course is equated to 6511 when used as dual credit for completer status.
8832	Dual Enrollment Criminal Evidence (CRJ 236)	This course is equated to 6511 when used as dual credit for completer status.
6345	Dual Enrollment Pipe Fitting and Welding (WLD 154)	This course is equated to 6343 when used as dual credit for completer status.
8643	Dual Enrollment Inert Gas Welding of Aluminum (WLD 135)	This course is equated to 6343 when used as dual credit for completer status.
6344	Dual Enrollment Inert Gas Welding Ferrous (WLD 132)	This course is equated to 6342 when used as dual credit for completer status.
6247	Dual Enrollment Basic Industrial Skills 2 (IMT 211)	This course is equated to 6342 when used as dual credit for completer status.
6352	Dual Enrollment Arc Welding II (WLD 113)	This course is equated to 6341 when used as dual credit for completer status.
6246	Dual Enrollment Basic Industrial Skills 1 (IMT 210)	This course is equated to 6340 when used as dual credit for completer status.
6351	Dual Enrollment Arc Welding I (WLD 111)	This course is equated to 6340 when used as dual credit for completer status.
6350	Dual Enrollment Gas and Arc Welding (WLD 106)	This course is equated to 6340 when used as dual credit for completer status.

Course Code	Course Name	Notes
8464	Dual Enrollment Electrical Power Systems (ELW 231)	This course is equated to 6308 when used as dual credit for completer status.
8463	Dual Enrollment Underground Line Construction (ELW 211)	This course is equated to 6307 when used as dual credit for completer status.
8462	Dual Enrollment Overhead Construction 1 (ELW 114)	This course is equated to 6306 when used as dual credit for completer status.
8460	Dual Enrollment Electrical Computations (ELW 110)	This course is equated to 6305 when used as dual credit for completer status.
8461	Dual Enrollment Introduction to Electricity (ELW 112)	This course is equated to 6305 when used as dual credit for completer status.
6037	Dual Enrollment Mechanical Power Applications (IMT 161)	This course is equated to 6211 when used as dual credit for completer status.
6118	Dual Enrollment AC/DC Circuits II (EEM 118)	This course is equated to 6210 when used as dual credit for completer status.
6115	Dual Enrollment AC/DC Circuits I (EEM 117)	This course is equated to 6210 when used as dual credit for completer status.
8018	Dual Enrollment Principles of Parametric CAD (EGT 245)	This course is equated to 6173 when used as dual credit for completer status.
6175	Dual Enrollment Introduction to CAD (EGT 151)	This course is equated to 6172 when used as dual credit for completer status.
8086	Dual Enrollment Architectural 3-D Rendering (AET 235)	This course is equated to 6171 when used as dual credit for completer status.
8070	Dual Enrollment Introduction to Building Construction (BCT 101)	This course is equated to 6060 when used as dual credit for completer status.
6691	Dual Enrollment Building Systems 1 (AET 101)	This course is equated to 6060 and 6058 when used as dual credit for completer status.
6239	Dual Enrollment Computer Integrated Manufacturing (CIM 131)	This course is equated to 6053 when used as dual credit for completer status.
6602	Dual Enrollment Engineering Technology App and Program (EGR 130)	This course is equated to 6050 when used as dual credit for completer status.
6363	Dual Enrollment Automotive Electricity (AUT 132)	This course is equated to 6032 when used as dual credit for completer status.
6360	Dual Enrollment Engine Fundamentals (AUT 101)	This course is equated to 6030 when used as dual credit for completer status.
6034	Dual Enrollment Tools, Equipment and Reference Manuals (AUT 159)	This course is equated to 6030 and 6031 when used as dual credit for completer status.

Course Code	Course Name	Notes
6017	Dual Enrollment Heat Pumps (ACR 210)	This course is equated to 6006 when used as dual credit for completer status.
8863	Dual Enrollment Basic Air Conditioning (ACR 120)	This course is equated to 6005 when used as dual credit for completer status.
8862	Dual Enrollment Gas Heating (ACR 111)	This course is equated to 6005 when used as dual credit for completer status.
6864	Dual Enrollment Basic Electricity for HVAC/R (ACR 106)	This course is equated to 6003 when used as dual credit for completer status.
6812	Dual Enrollment Growth and Development 2 (ECD 203)	This course is equated to 5801 when used as dual credit for completer status.
8707	Dual Enrollment Introduction to Baking and Pastry (BKP 119)	This course is equated to 5724 when used as dual credit for completer status.
8717	Dual Enrollment Bakeshop Production (BKP 120)	This course is equated to 5724 when used as dual credit for completer status.
8701	Dual Enrollment Introduction to Baking (BKP 101)	This course is equated to 5723 when used as dual credit for completer status.
8716	Dual Enrollment Introduction to Pastries (BKP 102)	This course is equated to 5723 when used as dual credit for completer status.
5726	Dual Enrollment Culinary Arts 2 Principles of Food Production II (CUL 102)	This course is equated to 5721 when used as dual credit for completer status.
5728	Dual Enrollment Culinary Arts 4 Introduction to Culinary Arts I (CUL 104)	This course is equated to 5721 when used as dual credit for completer status.
5725	Dual Enrollment Culinary Arts 1 Principles of Food Production I (CUL 101)	This course is equated to 5720 when used as dual credit for completer status.
6814	Dual Enrollment Learners and Diversity (EDU 241)	This course is equated to 5704 when used as dual credit for completer status.
6815	Dual Enrollment Creative Experiences (ECD 132)	This course is equated to 5701 when used as dual credit for completer status.
6816	Dual Enrollment Methods and Materials (ECD 207)	This course is equated to 5701 when used as dual credit for completer status.
8811	Dual Enrollment Health, Safety, and Nutrition (ECD 135)	This course is equated to 5701 when used as dual credit for completer status.
5708	Dual Enrollment Introduction to Early Childhood (ECD 101)	This course is equated to 5700 when used as dual credit for completer status.
8871	Dual Enrollment Greenhouse Production (HRT 130)	This course is equated to 5671 when used as dual credit for completer status.

Course Code	Course Name	Notes
8874	Dual Enrollment Landscape Design and Implementation (HRT 104)	This course is equated to 5670 when used as dual credit for completer status.
81E4	Dual Enrollment Turfgrass Management (HRT 241)	This course is equated to 5654 when used as dual credit for completer status.
8870	Dual Enrollment Introduction to Horticulture (HRT 101)	This course is equated to 5650 when used as dual credit for completer status.
8422	Dual Enrollment Introduction to Animal Science (AGR 203)	This course is equated to 5647 when used as dual credit for completer status.
8427	Dual Enrollment Advanced Animal Science (AGR 212)	This course is equated to 5646 when used as dual credit for completer status.
81E6	Dual Enrollment Urban Tree Care (HRT 255)	This course is equated to 5642 when used as dual credit for completer status.
8421	Dual Enrollment Soils (AGR 202)	This course is equated to 5630 when used as dual credit for completer status. Equivalencies: (HRT 125)
8424	Dual Enrollment Basic Farm Maintenance (AGR 206)	This course is equated to 5621 when used as dual credit for completer status.
8425	Dual Enrollment Field Crop Production (AGR 207)	This course is equated to 5614 when used as dual credit for completer status.
6822	Dual Enrollment Introduction to Agriculture Marketing (AGR 209)	This course is equated to 5600 when used as dual credit for completer status.
8535	Dual Enrollment Introduction to Medical Coding (AHS 171)	This course is equated to 5584 when used as dual credit for completer status.
5544	Dual Enrollment Long Term Care (AHS 163)	This course is equated to 5560 when used as dual credit for completer status.
85D2	Dual Enrollment Nursing Care Management 1 (NUR 104)	This course is equated to 5560 when used as dual credit for completer status.
5510	Dual Enrollment Health Careers (AHS 119)	This course is equated to 5551 when used as dual credit for completer status.
8566	Dual Enrollment Basic Nursing Care Skills (NUR 102)	This course is equated to 5551 when used as dual credit for completer status.
5542	Dual Enrollment Medical Vocabulary/Anatomy (AHS 104)	This course is equated to 5540 and 5552 when used as dual credit for completer status.
85B0	Dual Enrollment Emergency Medical Services (EMS 110)	This course is equated to 5533 when used as dual credit for completer status.
5193	Dual Enrollment Convention Management (HOS 258)	This course is equated to 5475 when used as dual credit for completer status.

Course Code	Course Name	Notes
8190	Dual Enrollment Events Management (HOS 161)	This course is equated to 5475 when used as dual credit for completer status.
5192	Dual Enrollment Travel and Tourism (HOS 164)	This course is equated to 5474 when used as dual credit for completer status.
5810	Dual Enrollment Food and Safety (CUL 109)	This course is equated to 5460 when used as dual credit for completer status.
8733	Dual Enrollment Entrepreneurship (BUS 110)	This course is equated to 5400 when used as dual credit for completer status. Equivalencies: (BUS 115) (ENTR 201)
8770	Dual Enrollment Computer Forensics (IST 268)	This course is equated to 5374 when used as dual credit for completer status.
8777	Dual Enrollment Network Vulnerability Assessment (IST 267)	This course is equated to 5372 when used as dual credit for completer status.
8772	Dual Enrollment Fundamentals of Network Security I (IST 291)	This course is equated to 5370 when used as dual credit for completer status.
8377	Dual Enrollment Operating Systems (CPT 257)	This course is equated to 5322 and 5323 when used as dual credit for completer status.
6753	Dual Enrollment Computer Configuration II (EET 251)	This course is equated to 5313 when used as dual credit for completer status. Computer science graduation credit is effective beginning with the 2024-25 school year.
6752	Dual Enrollment Computer Configuration (EET 250)	This course is equated to 5312 when used as dual credit for completer status. Computer science graduation credit is effective for the 2024-25 school year.
8775	Dual Enrollment Cisco Router Configuration (IST 202)	This course is equated to 5311 when used as dual credit for completer status.
8379	Dual Enrollment Information Systems Security (CPT 282)	This course is equated to 5311 when used as dual credit for completer status.
6763	Dual Enrollment Internetworking Concepts (IST 201)	This course is equated to 5310 when used as dual credit for completer status.
8762	Dual Enrollment Data Communication (IST 220)	This course is equated to 5310 when used as dual credit for completer status.

Course Code	Course Name	Notes
5280	Dual Enrollment Personal Finance (BAF 101)	This course is equated to 5141 when used as dual credit for completer status. Equivalencies: (FINA 369) (BADM 423) (FINA 151) (FINC 120) (FIN 110)
8753	Dual Enrollment Human Resources Management (MGT 201)	This course is equated to 5093 when used as dual credit for completer status.
5375	Dual Enrollment C++ Programming 1 (CPT 232)	This course is equated to 5056 when used as dual credit for completer status.
6734	Dual Enrollment Visual Basic Net I (CPT 186)	This course is equated to 5054 when used as dual credit for completer status.
8371	Dual Enrollment Advanced Java Programming (CPT 237)	This course is equated to 5053 when used as dual credit for completer status.
5373	Dual Enrollment Introduction to Java Programming (CPT 236)	This course is equated to 5052 when used as dual credit for completer status.
5037	Dual Enrollment Internet and Web Design (CPT 162)	This course is equated to 5031 when used as dual credit for completer status.
4705	DE Introduction to the Computer	This course is equated to 5023 when used as dual credit for completer status.
5045	Dual Enrollment Business Law (BUS 121)	Equivalencies: (TSTM 240) This course is equated to 5044 when used as dual credit for completer status.
6710	Dual Enrollment Introduction to Marketing (MKT 101)	Equivalencies: (MTKG U350) (MK 300) This course is equated to 5421 when used as dual credit for completer status.
6740	Dual Enrollment Principles of Management (MGT 101)	Equivalencies: (MG 300) This course is equated to 5092 when used as dual credit for completer status.
6245	Dual Enrollment Hydraulics and Pneumatics (IMT 131)	Equivalencies: (MEC 103) This course is equated to 6212 when used as dual credit for completer status.
5191	Dual Enrollment Hotel Management (HOS 150)	Equivalencies: (HRTM B260) This course is equated to 5473 when used as dual credit for completer status.
5479	Dual Enrollment The Hospitality Industry (HOS 140)	Equivalencies: (HRTM B110) This course is equated to 5478 when used as dual credit for completer status.
5732	Dual Enrollment Culinary Arts 8 Sanitation (CUL 155)	Equivalencies: (HOS 155) This course is equated to 5460 when used as dual credit for completer status.

Course Code	Course Name	Notes
5727	Dual Enrollment Culinary Arts 3 Nutrition (CUL 103)	Equivalencies: (HOS 103) This course is equated to 5721 and 5759 when used as dual credit for completer status.
6605	Dual Enrollment Introduction to Engineering (EGR 270)	Equivalencies: (ENGR 1410) (ENCP 101) This course is equated to 6051 when used as dual credit for completer status.
6178	Dual Enrollment Fundamentals of CAD (EGT 152)	Equivalencies: (EGT 109) This course is equated to 6051 and 6173 when used as dual credit for completer status.
6603	Dual Enrollment Digital Electronics (EET 140)	Equivalencies: (EEM 230) This course is equated to 6052 and 6213 when used as dual credit for completer status.
6818	Dual Enrollment Classroom Inquiries with Technology (EDU 201)	Equivalencies: (EDUC 204) (EDU 201) This course is equated to 5703 when used as dual credit for completer status.
5709	Dual Enrollment Growth and Development I (ECED 222)	Equivalencies: (ECD 102) This course is equated to 5800 when used as dual credit for completer status.
6762	Dual Enrollment Network Security Concepts (CIS 212)	Equivalencies: (CYB 250) This course is equated to 5370 when used as dual credit for completer status. Computer science graduation credit is effective beginning with the 2024-25 school year.
6760	Dual Enrollment Networking II (CIS 225)	Equivalencies: (CYB 200) This course is equated to 5311 when used as dual credit for completer status.
6761	Dual Enrollment UNIX Administration (CIS 206)	Equivalencies: (CST 200) This course is equated to 5323 when used as dual credit for completer status. Computer science graduation credit is effective beginning with the 2024-25 school year.
5026	Dual Enrollment Microcomputer Applications (CPT 170)	Equivalencies: (CSCI U138) (CPT 101) (CPSC 1200) (CSCI 105) (CSCI 140) (CS 105) (CIS 120) (CST 120) (AOT 162); This course is equated to 5020 when used as dual credit for completer status.
6721	Dual Enrollment Computers and Programming (CPT 114)	Equivalencies: (CSCE 102) (CSCI U150) (CPT 104) (CSCI 115) This course is equated to 5050 when used as dual credit for completer status.

Course Code	Course Name	Notes
6727	Dual Enrollment Computer Programming I (CSCI 220)	Equivalencies: (CS 205) This course is equated to 5050 when used as dual credit for completer status.
6535	Dual Enrollment Police Patrol (CRJ 110)	Equivalencies: (CRJU 311) This course is equated to 6510 when used as dual credit for completer status.
6722	Dual Enrollment Computer Systems Management (CPT 209)	Equivalencies: (CPT 285) (IST 209) This course is equated to 5320 when used as dual credit for completer status.
5541	Dual Enrollment Medical Terminology (AHS 102)	Equivalencies: (CLAS 111) (KI 285) (CLAS 230) This course is equated to 5540 when used as dual credit for completer status.
6759	Dual Enrollment Network Fundamentals (IST 166)	Equivalencies: (CIS 150) (CST 160) This course is equated to 5310 when used as dual credit for completer status.
6861	Dual Enrollment Refrigeration Fundamentals (ACR 101)	Equivalencies: (ACR 108) This course is equated to 6004 when used as dual credit for completer status.
6731	Dual Enrollment Accounting Principles II (ACC 102)	Equivalencies: (ACCT 226) (ACC 112) (RETL 262) (ACCT 281) This course is equated to 5005 when used as dual credit for completer status.
6730	Dual Enrollment Accounting Principles I (ACC 101)	Equivalencies: (ACCT 225) (CBAD 201) (ACC 111) (RETL 261) (AC 207) (ACCT 280) (ACCT U225) This course is equated to 5001 when used as dual credit for completer status.
6726	Dual Enrollment Introduction to Operating Systems (CIS 106)	Equivalencies (SCT 140) (CST 140) This course is equated to 5323 when used as dual credit for completer status. Computer science graduation credit is effective beginning with the 2024-25 school year.

Appendix D: Personal Finance 0.5 Unit Update Memo - May 6. 2025

MEMORANDUM

TO: District Superintendents
Instructional Leaders
Career and Technical Education Directors/Coordinators
Personnel Administrators
School Counselors

FROM: Kayce Cook, Ed.D.
Director of the Office of Career Readiness

DATE: May 6, 2025

RE: Personal Finance 0.5 Unit Update Memo

As a follow-up to the May 9, 2023, Personal Finance one-half (0.5) unit Graduation Requirement Memorandum, the South Carolina Department of Education (SCDE) is providing updated guidance to ensure students experience rigorous, personalized instruction in personal finance.

Recognizing the varied program structures and student needs across districts, and in response to field feedback, the SCDE is revising options for fulfilling the requirement while maintaining the full scope of standards-based instruction.
Courses Approved to Meet the Personal Finance Graduation Requirement

Following a thorough evaluation of related one-unit courses, Advanced Personal Finance (5131) and Financial Fitness (5812) have been determined to fully align with the Personal Finance standards and may be used to satisfy the graduation requirement.

The 2025–2026 school year will be the **final year** during which the following courses may substitute for the Personal Finance one-half (0.5) unit requirement:

Activity Code	Course Title	Credit (Unit)
5271	Banking Services	1.0
5273	Business Finance	1.0
5400	Entrepreneurship	1.0
5277	Securities and Investments	1.0

The only courses approved to satisfy the Personal Finance graduation requirement moving forward are:

Activity Code	Course Title	Credit (Unit)
5141	Personal Finance	0.5
5131	Advanced Personal Finance	1.0
5812	Financial Fitness	1.0

If a district wishes to use a post-secondary course aligned to one of the approved courses, consult the Course Code Database. If alignment is not already approved, submit a Dual Credit for Completer Status Implementation Form.

Acceptable Certification Fields to Teach a Personal Finance Course

Teachers certified in the following fields may teach Personal Finance without additional preparation; however, participation in Personal Finance related professional development is strongly encouraged.

Certification Code	Certification Field
4H	Business and Marketing Education
35	Family and Consumer Science
4B	Business/Marketing/Computer Technology*
44	Accounting and Related Business*
48	Accounting and Related Economics*
47	Business Education*
40	Commerce/Office Occupations*
46	Data/Information Processing*
32	Distributive Education*

(*Certification fields marked with an asterisk are no longer issued but remain acceptable if the certificate is current and valid.)

Teacher Certification Requirements to Teach the One-Half (0.5) unit Personal Finance (5141) Course

Educators must meet one of the following options:

OPTION 1 – Grade Level Certification (GLC) with historical college transcripts (2010 and higher) for courses associated with banking, budgeting, insurance, investing, behavioral economics, and credit **plus** W!se Personal Finance Teacher Certification

OPTION 2 – GLC and training pertaining to banking, budgeting, insurance, investing, behavioral economics, credit (example Personal Finance Symposium) **plus** W!se Personal Finance Teacher Certification

OPTION 3 – GLC with history of teaching Financial Literacy 2703 **plus** W!se Personal Finance Teacher Certification

OPTION 4 – GLC with Master Financial Literacy Teacher Award from SC Economics

Teacher Requirements to Teach the one- (1-) unit Personal Finance (5131) or Financial Fitness (5812) Course

Educators must meet one of the following options:

OPTION 1: Prior teaching experience in any of the following courses:

- Advanced Personal Finance (5131)
- Banking Services (5271)
- Business Finance (5273)
- Entrepreneurship (5400)
- Financial Fitness 1 (5812)
- Securities and Investments (5277)

(Historical teaching assignments must be verified through a master schedule or administrator.)

OPTION 2:

- Pass the American Association of Family and Consumer Science Certified Personal and Family Finance Educator Exam, and
- Complete the NGPF Certification for Educators in:
- Banking and Budgeting
- Credit
- Insurance
- Investing
- Paying for College
- Behavioral Economics
- W!se Personal Finance for Teacher Certification

(For the certifications listed above, certificates of completion including dates must be submitted to Eleanor Glover eglover@ed.sc.gov.)

OPTION 3:

- Complete the NGPF Certification for Educators
- Professional Level Endorsement Requirement, and the following requirements:
    - Complete Associate Level Endorsement
    - Complete a Methods of Teaching General Financial Literacy or earn the Master Financial Literacy Teacher endorsement

2025 Personal Finance Symposium – Summer Training Opportunity

As a reminder, refer to the Personal Finance Symposium District Memorandum for a 2025 summer training option.

Dates:	June 10-11, 2025
Location:	Darla Moore School of Business, 1014 Greene Street, Columbia, SC
Capacity:	Limited to 80 teachers
Registration Deadline:	May 23, 2025 (No on-site registration)
Registration Fee:	$250 (includes training, certification prep, exam, and meals; lodging not included)

For symposium questions, contact:
Dr. Eleanor Glover Gladney: eglover@ed.sc.gov
Sarah Ostergard: sarah.ostergaard@moore.sc.edu

For certification-related questions, contact:
Sherry Schneider: SSchneider@ed.sc.gov | 803-896-0384
CTE Educator Services: CTECertification@ed.sc.gov (or use the My SC Educator Portal)

For general questions regarding this memorandum, contact:
Dr. Eleanor Glover Gladney: eglover@ed.sc.gov | 803-734-3826 | or the Office of Career Readiness

Appendix E: Project Lead The Way (PLTW) Dual Credit Clarification Memo – February 10, 2026

MEMORANDUM

TO: District Superintendents
Career and Technical Education Administrators
Instructional Leaders
School Counselors
Regional Career Specialists

FROM: Kayce Cook, EdD
Director, Office of Career Readiness

DATE: February 10, 2026

RE: Project Lead the Way (PLTW) Dual Credit Clarification

The South Carolina Department of Education (SCDE) has reviewed current practices regarding academic weighting for Project Lead the Way (PLTW) courses and is issuing this clarification to ensure compliance with state regulations and consistency across districts.

After extensive internal review and consideration of feedback from schools and districts, it has been determined that PLTW courses will no longer be eligible for dual credit weighting beginning in the 2026–27 academic year. This decision reflects the need to align with State Board of Education (SBE) Regulation 43-234 and the Uniform Grading Policy (UGP).

Rationale

Under the current practice, PLTW courses may initially receive college preparatory or honors weighting. However, if students opt to take the PLTW end-of-course assessment, achieve a qualifying score, and pay associated fees, the course is often retroactively adjusted to reflect dual credit weighting through a modified course code.

This practice raises several issues:

- **Non-compliance with SBE Regulation 43-234**, which defines dual credit as high school coursework that earns simultaneous college credit through a pre-established agreement with a postsecondary institution.
- **Limitations in the Uniform Grading Policy (UGP)**, which state that enhanced weighting applies only when coursework earns both high school and college credit and contributes toward an associate degree, baccalaureate degree, or industry-recognized credential.

- **Equity and data integrity**, as students in the same course with the same final grade may receive different academic weightings based on optional exam participation.

These issues create inconsistencies in student GPA calculations and undermine the principles of transparency, accountability, and fairness within South Carolina's uniform grading system.

What's Changing

Beginning with the 2026–27 academic year:

- PLTW courses will no longer be eligible for dual credit weighting.
- PLTW courses may continue to receive honors or college preparatory weighting, in accordance with local district policy and course designation.

This adjustment ensures that academic credit and quality points are awarded consistently and in accordance with SBE regulations.

Continued Pathways for College Credit

This change does not diminish the value of PLTW courses. These courses continue to serve as rigorous, industry-aligned opportunities that prepare students for high-wage, high-demand STEM careers.

Students may still pursue college credit for PLTW courses through the American Council on Education (ACE). ACE has evaluated and recommended seven PLTW courses for college credit, which are listed in the ACE National Guide. For comprehensive information regarding receiving college credit for PLTW courses, please visit PLTW's Student Opportunity Page.

However, be advised that beginning in the 2026-27 academic year, dual credit weighting cannot be awarded for PLTW courses regardless of college credit received.

Questions and Support

For questions related to this guidance or PLTW academic weighting, please contact the Office of Career Readiness at: careerreadiness@ed.sc.gov

Appendix F: Office of Career Readiness Contact Information

Contact information for the CTE staff at the Office of Career Readiness can be found on the South Carolina Department of Education website.

Questions can be directed to the Office of Career Readiness at CareerReadiness@ed.sc.gov.