



South Carolina Modernized Career and Technical Education Programs

September 2026

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

The CTE Modernized Programs are listed by career cluster.

New courses are designated in italic.

The courses that qualify a student as a concentrator are identified with **.

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

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

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

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

Additional resources related to dual enrollment and course equivalencies include:

- For additional information regarding using dual credit courses for completer status, see the [Expanding Dual Credit for CTE Completer Status](#) document.
- [How to Pull a Current List of CTE Dual Enrollment Courses from the Course Code Database in Satchel](#).
- To request an evaluation of a postsecondary CTE course for equivalency to a secondary CTE course, complete the [CTE Dual Credit Course Equivalency Application](#).

Advanced Manufacturing

Aerospace Engineering Technology

CIP Code: 150801

4 Course Completer

Fundamentals of Aerospace Technology**

Advanced Aerospace Technology**

Aeronautics Engineering Applications

Astronautics Engineering Applications



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

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

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

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

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

Mechanical Design 1**
Mechanical Design 2**
Core Engineering 1
Core Engineering 2

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

Machine Technology 1**
Machine Technology 2**
Machine Technology 3
Machine Technology 4

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

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

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

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

- PLTW-Aerospace Engineering
- PLTW-Civil Engineering and Architecture
- PLTW-Computer Integrated Manufacturing
- PLTW-Computer Science Principles
- PLTW- Advanced Manufacturing
- PLTW-Digital Electronics
- PLTW-Capstone
- PLTW-Environmental Sustainability (ES)

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

Siemens Engineering Design**

Siemens Manufacturing and Automation**

Siemens Mechatronics and the Internet of Things

Siemens Engineering Research and Development

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

Agricultural Science and Technology**

Agricultural Mechanics and Technology**

3rd and 4th courses chosen from:

- Equipment Operation and Maintenance
- Agricultural Power Mechanics
- Agribusiness and Marketing
- *Agricultural Experiences Capstone*

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

Agricultural Science and Technology**

Introduction to Horticulture**

3rd and 4th courses chosen from:

- Nursery, Greenhouse, and Garden Center Technology
- Floriculture
- Landscape Technology
- Agricultural Crop Production and Management
- Soil and Soilless Research
- Soil and Water Conservation
- Turf and Lawn Management
- Agribusiness and Marketing
- Agricultural Mechanics and Technology
- Equipment Maintenance and Technology
- *Agricultural Experiences Capstone*

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

Agricultural Science and Technology**

Animal Science **or** Small Animal Care**3rd and 4th courses chosen from

- Introduction to Veterinary Science
- Equine Science
- Farm Animal or Cattle Production
- Aquaculture
- Wildlife Management



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- Agribusiness and Marketing
- Agricultural Mechanics and Technology
- Agricultural Crop Production and Management
- *Agricultural Experiences Capstone*

Arts, Entertainment & Design

Digital Arts

CIP Code: 500102

4 Course Completer

Digital Arts 1**

Digital Arts 2**

Digital Arts 3

Digital Arts 4

Digital Imaging Design

CIP Code: 100303

3 Course Completer

Digital Multimedia**

Image Editing**

Digital Publication Design

Fashion Design and Apparel Construction

CIP Code: 500407

3 Course Completer

Fashion Design and Apparel Construction 1**

Fashion Design and Apparel Construction 2**

Third course chosen from:

- Entrepreneurship
- Fashion Marketing

Game and Interactive Media Design

CIP Code: 500411

3 Course Completer

Foundations of Animation**

Game Design and Development**

Advanced Animation

Graphic Communications

CIP Code: 100301

4 Course Completer

Graphic Communications 1**

Graphic Communications 2**

Graphic Communications 3

Graphic Communications 4

Interior Design

CIP Code: 500408

3 Course Completer

Interior Design 1**

Interior Design**

Third course chosen from:

- Architecture 1
- Marketing

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

Media Technology 1**

Media Technology 2**

Media Technology 3

Media Technology 4

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

Architecture Design 1**

Architecture Design 2**

Third course chosen from:

- *Architecture Design 3*
- *Construction Project Management*

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

Building Construction 1**

Building Construction 2**

Building Construction 3

Fourth course chosen from:

- Building Construction 4
- *Construction Project Management*

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

Carpentry 1**

Carpentry 2**

Carpentry 3

Fourth course chosen from:

- Carpentry 4
- *Construction Project Management*

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

Electrical Line Worker 1**

Electrical Line Worker 2**

Electrical Line Worker 3

Fourth course chosen from:

- Electrical Line Worker 4
- *Construction Project Management*

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

Electricity 1**

Electricity 2**

Electricity 3

Fourth course chosen from:

- Electricity 4
- *Construction Project Management*

HVAC/R Technology

CIP Code: 470201

4 Course Completer

HVAC/R Technology 1**

HVAC/R Technology 2**

HVAC/R Technology 3

Fourth course chosen from:

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

Masonry

CIP Code: 460101

4 Course Completer

Masonry 1**

Masonry 2**

Masonry 3

Fourth course chosen from:

- Masonry 4
- *Construction Project Management*

Plumbing

CIP Code: 460503

4 Course Completer

Plumbing 1**

Plumbing 2**

Plumbing 3

Fourth course chosen from:

- Plumbing 4
- *Construction Project Management*

Welding Technology

CIP Code: 480508

4 Course Completer

Welding Technology 1**

Welding Technology 2**

Welding Technology 3

Fourth course chosen from:

- Welding 4
- *Construction Project Management*

Digital Technology

Artificial Intelligence

CIP Code: 110102

3 Course Completer

Introduction to Artificial Intelligence**

Artificial Intelligence Applications**

Advanced Artificial Intelligence Applications

Cybersecurity

CIP Code: 111003

4 Course Completer

Fundamentals of Computing **or** IT Fundamentals **or** AP Computer Science Principles**
 Fundamentals of Cybersecurity**
 Advanced Cybersecurity
 Networking Fundamentals

Information Support and Services

CIP Code: 151202

3 Course Completer

Fundamentals of Computing **or** IT Fundamentals **or** AP Computer Science Principles**
 Computer Repair and Service**
 Advanced Computer Repair and Service

Networking Systems

CIP Code: 110901

3 Course Completer

Fundamentals of Computing **or** IT Fundamentals **or** AP Computer Science Principles**
 Networking Fundamentals**
 Advanced Networking

Programming and Software Development

CIP Code: 110201

3 Course Completer

Fundamentals of Computing **or** AP Computer Science Principles**
 Level 1 Computer Programming**
 Level 2 Computer Programming

Choose **ONE** row

Level 1 Computer Programming**		Level 2 Computer Programming
Introduction to Computer Programming	And	Intermediate Computer Programming
Computer Programming 1 with [Any Language] [†]	And	Computer Programming 2 with [Any Language] [†]
Database Design and Programming with SQL	And	Database Programming with PL/SQL
AP Computer Science A	And	Computer Programming 2 with Java

[†]Must be the same language

Web Based Communications

CIP Code: 110801

3 Course Completer

Fundamentals of Computing **or** AP Computer Science Principles**
 Fundamentals of Webpage Design & Development**
 Advanced Webpage Design & Development

Education

Child Development

CIP Code: 190701

3 Course Completer

Family and Consumer Science**
 Child Development 1**
 Child Development 2

Early Childhood Education

CIP Code: 131210

3 Course Completer

Introduction to Teacher Education (currently Introduction to Early Childhood Education)**

Early Childhood Education 1**

Early Childhood Education 2

Family and Consumer Sciences

CIP Code: 190101

3 Course Completer

Family and Consumer Sciences 1**

Family and Consumer Sciences 2**

3rd course chosen from:

- Foods and Nutrition 1
- Child Development 1
- Financial Fitness

Foods and Nutrition

CIP Code: 190599

3 Course Completer

Family and Consumer Science 1**

Foods and Nutrition 1**

Foods and Nutrition 2

Parenting and Family Services

CIP Code: 190712

3 Course Completer

Family and Consumer Science**

Family Life Education**

3rd course chosen from:

- Parenting Education
- Child Development 1

Teacher Education

CIP Code: 131206

3 Course Completer

Introduction to Teacher Education (currently Introduction to Early Childhood Education)**

Education 1 (currently Introduction to Teaching 1) **or** Teacher Cadet Experiencing Education)**

Education 2 (currently Introduction to Teaching 2) **or** Teacher Cadet Experiencing Education (if not taken as the second course) **or** Teacher Cadet Educational Psychology

Energy & Natural Resources

Clean Energy

CIP Code: 149999

4 Course Completer

Clean Energy System**

Clean Energy Applications**

Clean Energy Strategies

Clean Energy Innovations

Environmental & Natural Resource Management

CIP Code: 030101

4 Course Completer

Agricultural Science and Technology**

Environmental & Natural Resources Management**



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3rd and 4th courses chosen from:

- Agribusiness & Marketing
- Agricultural Mechanics & Technology
- Aquaculture
- Biosystems Mechanics & Engineering
- Equipment Operation & Maintenance
- Forestry
- Outdoor Recreation
- Soil & Soiless Research
- Soil & Water Conservation
- Wildlife Management
- *Agricultural Experiences Capstone*

Innovations in Science & Technology

CIP Code: 410000

4 Course Completer

The Nature of Science and Technology**

Core Applications of Science and Technology**

Impacts of Science and Technology

Creativity in Innovations

Financial Services

Accounting

CIP Code: 520301

3 Course Completer

Accounting 1**

Accounting 2**

Third course chosen from:

- Advanced Personal Finance
- Business Finance

Business and Personal/Financial Services

CIP Code: 521908

3 Course Completer

Accounting 1 **or** Advanced Personal Finance**

Business Finance**

Third course chosen from:

- Banking Services
- Insurance and Risk Management
- Securities and Investments

Healthcare & Human Services

Barber/Master Hair Care

CIP Code: 120402

4 Course Completer

Barber/Master Hair Care 1**

Barber/Master Hair Care 2**

Barber/Master Hair Care 3

Barber/Master Hair Care 4

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

PLTW-Human Body Systems**

PLTW-Principles of Biomedical Sciences**

Third course chosen from:

- PLTW-Medical Interventions
- Health Science- Human Structure, Function, and Disease
- Medical Terminology

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

Cosmetology 1**

Cosmetology 2**

Cosmetology 3

Cosmetology 4

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

Emergency Medical Services 1**

Emergency Medical Services 2**

Emergency Medical Services 3

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

Esthetics 1**

Esthetics 2**

Esthetics 3

Esthetics 4

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

Healthcare Science 1-Foundations of Healthcare Professionals**

Healthcare Science 2-Essential Healthcare Practices**

Third course chosen from:

- Health Science-Human Structure, Function, and Disease
- Medical Terminology

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

Nail Technology 1**

Nail Technology 2**

Nail Technology 3

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

Introduction to Natural Hair Braiding**

Natural Hair Braiding 1**

Natural Hair Braiding 2

Public Health

CIP Code: 512208

3 Course Completer

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

Sports Medicine

CIP Code: 510913

3 Course Completer

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

- Sports Medicine 3
- Health Science- Human Structure, Function, and Disease
- Medical Terminology

Hospitality, Events & Tourism

Baking and Pastry

CIP Code: 120501

4 Course Completer

Baking and Pastry 1**
Baking and Pastry 2**
Advanced Baking and Pastry 1
Advanced Baking and Pastry 2

Culinary Arts Management

CIP Code: 520905

4 Course Completer

Culinary Arts Management 1**
Culinary Arts Management 2**
Culinary Arts Management 3
Culinary Arts Management 4

Culinary Arts/Chef Training

CIP Code: 120503

4 Course Completer

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

Hospitality and Tourism Management

CIP Code: 520901

3 Course Completer

Introduction to Hospitality and Tourism Management**
Lodging Management**
Travel and Tourism Management

Meeting and Event Planning

CIP Code: 520907

3 Course Completer

Introduction to Hospitality and Tourism Management**
Event and Entertainment Management**
Sports and Entertainment Management



Management & Entrepreneurship

Business Law

CIP Code: 529999

3 Course Completer

Fundamentals of Business, Marketing, and Finance**

Business Law**

Advanced Business Law

Human Resources

CIP Code: 521001

3 Course Completer

Fundamentals of Human Resource Management**

Business Law**

Business Principles and Management

Entrepreneurship

CIP Code: 520701

3 Course Completer

Fundamentals of Business, Marketing, and Finance **

Entrepreneurship **

Third course chosen from:

- Accounting 1
- Professional and Leadership Development
- Virtual Enterprise

International Business Management

CIP Code: 521101

3 Course Completer

Fundamentals of Business, Marketing, and Finance**

Business Principles and Management **

International Business

Office Management & Supervision

CIP Code: 520204

3 Course Completer

Workplace Communications**

Digital Workplace Applications **

Administrative Support Technology

Project Management

CIP Code: 520211

3 Course Completer

Fundamentals of Business, Marketing, and Finance**

Fundamentals of Project Management **

Third course chosen from:

- Accounting 1
- Business Finance

Marketing & Sales

Digital Marketing

CIP Code: 521404

3 Course Completer

Marketing**

Social Media Marketing **or** Digital Media Marketing**

Third course chosen from:

- Advertising
- Digital Media Marketing

Marketing Management

CIP Code: 521401

3 Course Completer

Marketing**

Marketing Management**

Third course chosen from:

- Accounting 1
- Advertising
- Business Finance

Merchandising

CIP Code: 521802

3 Course Completer

Marketing**

Merchandising**

Third course chosen from:

- Fashion Marketing
- Marketing Analytics

Real Estate

CIP Code: 521501

3 Course Completer

Marketing**

Fundamentals of Real Estate Practice**

Advanced Real Estate Practice

Sports and Entertainment Marketing

CIP Code: 521399

3 Course Completer

Marketing**

Sports and Entertainment Marketing**

Sports and Entertainment Management

Public Safety & Security

Air Force JROTC

CIP Code: 280101

4 Course Completer

Air Force JROTC 1**

Air Force JROTC 2**

Air Force JROTC 3

Air Force JROTC 4

Army JROTC

CIP Code: 280301

4 Course Completer

Army JROTC 1**

Army JROTC 2**

Army JROTC 3

Army JROTC 4



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

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

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

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

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

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

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

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

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

Law Enforcement Services 1**
Law Enforcement Services 2**
Law Enforcement Services 3

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

Firefighter 1**
Firefighter 2**
Firefighter 3

Supply Chain & Transportation

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

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

Automotive and Hybrid/BEV Technology

CIP Code: 470604

4 Course Completer

Automotive Technology 1**
Automotive Technology 2**
Automotive Technology 3
Automotive Technology 4

**Commercial Vehicle Operation or
Commercial Driving License Operation**

CIP Code: 490205

4 Course Completer

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

Diesel Technology

CIP Code: 470605

4 Course Completer

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

Drone Technology

CIP Code: 490109

3 Course Completer

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

Global Logistics and Supply Chain Management

CIP Code: 520203

4 Course Completer

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

Power Equipment Technology

CIP Code: 470606

4 Course Completer

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