



ORANGEBURG CAREER AND
TECHNOLOGY CENTER

2024-2025

Career and Technology Education (CTE) Pathways Guide

By CIP Code and Cluster





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CTE Pathways Guide Notes, FAQs, and More

Important Notes:

1. Courses listed in this guide represent courses we currently offer at the Orangeburg Career and Technology Center and some frequent flyer courses observed in historical student grades. Students may complete a program through their successful completion of CTE courses offered at their home school, transfer courses, Virtual SC, and dual enrollment. The complete list of courses for each available pathway in the state is linked [here](#).
2. The name of the pathway, CIP code, and the minimum number of units required is listed in the header of each table.

Frequently Asked Questions:

1. What is a concentrator course?

The Strengthening Career and Technical Education for the 21st Century Act (Perkins V) requires a Career and Technical Education (CTE) concentrator to complete at least two courses in a single career and technical education program. The Office of Career and Technical Education (OCTE) defines a concentrator as a secondary student with an assigned Classification of Instructional Programs (CIP) code who has completed at least two courses in a state-recognized CTE program with the exception of Barber/Master Hair Care and Cosmetology, which require three courses.

2. Can a student take any combination of three (3) or more courses in a given CTE program and be a completer?

No. Students must complete two (or three – Barber/Master Hair Care & Cosmetology) concentrator courses plus the additional one or more courses required. Courses that will allow students to be a three-unit completer in designated pathways are highlighted light turquoise for the purposes of this guide.

Example: Student A successfully complete Business Law, Digital Technologies, and Digital Workplace Applications. **Student A is not a completer for any pathway.**

Example: Student B successfully completes Early Childhood Education 1, Early Childhood Education 2, Family Life Education, and Introduction to Early Childhood Education. **Student B is a completer for the Early Childhood Education pathway.**



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3. Once a student completes a given program, does that mean the student is no longer eligible for CTE courses?

No. We strongly encourage students to continue to take courses in their pathway or begin another designated pathway that can support their postsecondary education goals.

Students are able to complete in multiple pathways.

4. Can a student still be a completer in a 3-unit pathway if the student does not complete a designated course that satisfies the 3-unit requirement (light turquoise course)?

Yes. If a student is a concentrator in a given pathway, they are able to mix and match additional courses to become a 4-unit completer.

Example: Student C has successfully completed Accounting 1, Accounting 2, and Professional and Leadership Development. The student is **not** a completer. The student enrolls in Business Law. The student **is** a 4-unit completer for the Accounting pathway.

Example: Student D has successfully completed Health Science 1, Health Science 2, and Sports Medicine 1. The student is **not** a completer. The student enrolls in Sports Medicine 2. The student **is** a 4-unit completer for the Health Science and Sports Medicine pathways.

5. I still need additional support with assisting a student in matriculating through a given pathway, what should I do?

Please refer to the [SCDE CTE Student Reporting Guidelines SY 2024-25](#) and the 24-25 TTC CTE Pathways Guide (August 2024) for more details. Feel free to reach out to myself, TTC administration, or TTC teachers for more insight into our courses and pathways.





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Table Guide:

CTE Pathway Name (CIP Code)	
Number of Units Required	
Course Number	Concentrator Course Name 1
Course Number	Concentrator Course Name 2
<i>Additional Courses</i>	
Course Number	Course that can satisfy 3-unit requirement
Course Number	Course that must be taken to meet 4+ unit requirement
Course Number	Course that can be used to make student 4-unit completer in a given 3-unit or 4-unit pathway

Color Code Key/Indicator:

		Key/Indicator
Course Number	Course Name	Concentrator courses
Course Number	Course Name	Additional courses that satisfy 3 units requirement
Course Number	Course Name	Additional courses required to satisfy 4+ units requirement
Course Number	Course Name	Additional courses that do not satisfy the 3 units programs but can be used to make a 4 units completer

Color Reference:

Blue	Light Turquoise	Light Blue	White
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Architecture and Construction Pathways

Building Construction (460000) 4-Unit Program	
606000CW	Building Construction Cluster 1
606100CW	Building Construction Cluster 2
606200CW	Building Construction Cluster 3
606300CW	Building Construction Cluster 4
<i>Additional Courses</i>	
669000CW	Architecture and Construction, WBC



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Arts, A/V Technology & Communications Pathways

Digital Art and Design (500402) 4-Unit Program	
612000CW	Digital Art and Design 1
612100CW	Digital Art and Design 2
612200CW	Digital Art and Design 3
612300CW	Digital Art and Design 4
<i>Additional Courses</i>	
529000CW	Arts, A/V Technology & Communications Internship, Work-Based Credit

Media Technology (100299) 4-Unit Program	
612400CW	Media Technology 1
612500CW	Media Technology 2
612600CW	Media Technology 3
612700CW	Media Technology 4
<i>Additional Courses</i>	
529000CW	Arts, A/V Technology & Communications Internship, Work-Based Credit



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Business Management and Administration Pathways

General Management (520201)	
3-Unit Program	
500100CW	Accounting 1
540000CW	Entrepreneurship
<i>Additional Courses</i>	
500500CW	Accounting 2
513100CW	Advanced Personal Finance
502100CW	Business Data Applications
504400CW	Business Law
509200CW	Business Principles and Management
502000CW	Digital Workplace Applications
509300CW	Fundamentals of Human Resource Management
517800CW	Professional and Leadership Development
549000CW	Business, Management, and Administration, WBC

Human Resources Management (521001)	
3-Unit Program	
504400CW	Business Law
509300CW	Fundamentals of Human Resource Management
<i>Additional Courses</i>	
513100CW	Advanced Personal Finance
502100CW	Business Data Applications
509200CW	Business Principles and Management
502000CW	Digital Workplace Applications
540000CW	Entrepreneurship
517800CW	Professional and Leadership Development
549000CW	Business, Management, and Administration, WBC



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Education and Training Pathways

Early Childhood Education (131210)	
4-Unit Program	
570000CW	Early Childhood Education 1
570100CW	Early Childhood Education 2
<i>Additional Courses</i>	
373500ED	DE: Teacher Cadet – Experiencing Education
502000CW	Digital Workplace Applications
540000CW	Entrepreneurship
582000CW	Family Life Education
502300CW	Fundamentals of Computing
555000CW	Health Science 1
570200CW	Introduction to Early Childhood Education
570300CW	Introduction to Teaching 1
581600CW	Parenting Education
639000CW	Education and Training, WBC

Introduction to Teaching (130101)	
4-Unit Program	
570300CW	Introduction to Teaching 1
570400CW	Introduction to Teaching 2
<i>Additional Courses</i>	
373500ED	DE: Teacher Cadet – Experiencing Education
502000CW	Digital Workplace Applications
570000CW	Early Childhood Education 1
540000CW	Entrepreneurship
582000CW	Family Life Education
502300CW	Fundamentals of Computing
555000CW	Health Science 1
570200CW	Introduction to Early Childhood
581600CW	Parenting Education
639000CW	Education and Training, WBC



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Finance Pathways

Accounting (520301) 3-Unit Program	
500100CW	Accounting 1
500500CW	Accounting 2
<i>Additional Courses</i>	
513100CW	Advanced Personal Finance
502100CW	Business Data Applications
504400CW	Business Law
509200CW	Business Principles and Management
502000CW	Digital Workplace Applications
540000CW	Entrepreneurship
517800CW	Professional and Leadership Development
619000CW	Finance, WBC



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Health Science Pathways

Health Science (510000)	
3-Unit Program	
555000CW	Health Science 1 or <i>551000EW DE: Health Careers (AHS 119)</i>
555100CW	Health Science 2
<i>Additional Courses</i>	
555200CW	Health Science – Hum Struc, Func, & Disease
554000CW	Medical Terminology
554200EW	DE: Medical Vocabulary/Anatomy (AHS 104)
557000CD	Pharmacology for Medical Careers*
555500CW	Sports Medicine 1
555600CW	Sports Medicine 2
559000CW	Health Science, WBC
559100CW	Sports Medicine, WBC

Sports Medicine (310505)	
3-Unit Program	
555500CW	Sports Medicine 1
555600CW	Sports Medicine 2
<i>Additional Courses</i>	
555200CW	Health Science – Hum Struc, Func, & Disease
555000CW	Health Science 1 or <i>551000EW DE: Health Careers (AHS 119)</i>
555100CW	Health Science 2
554000CW	Medical Terminology
554200EW	DE: Medical Vocabulary/Anatomy (AHS 104)
557000CD	Pharmacology for Medical Careers*
559000CW	Health Science, WBC
559100CW	Sports Medicine, WBC



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Hospitality and Tourism Pathways

Culinary Arts (520905)	
3-Unit Program	
572000CW	Culinary Arts Management 1
572100CD	Culinary Arts Management 2
<i>Additional Courses</i>	
500100CW	Accounting 1
502000CW	Digital Workplace Applications
540000CW	Entrepreneurship
502300CW	Fundamentals of Computing
572200CW	Introduction to Culinary Arts Management
519000CW	Hospitality and Tourism, WBC



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Human Services/Family and Consumer Sciences Pathways

Cosmetology (120401)	
8 Unit Program + 1540 Hours	
615000CD	Cosmetology 1
615100CD	Cosmetology 2
615200CD	Cosmetology 3
615300CD	Cosmetology 4
<i>Additional Courses</i>	
570000CW	Human Services, WBC

Family and Consumer Sciences (190101)	
3-Unit Program	
582000CW	Family Life Education
581600CW	Parenting Education
<i>Additional Courses</i>	
513100CW	Advanced Personal Finance
572000CW	Culinary Management 1
373500ED	DE: Teacher Cadet – Experiencing Education
570000CW	Early Childhood Education 1
540000CW	Entrepreneurship
502300CW	Fundamentals of Computing
572200CW	Introduction to Culinary Arts Management
570200CW	Introduction to Early Childhood Education
570300CW	Introduction to Teaching 1
589000CW	Family and Consumer Sciences, WBC



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Information Technology Pathways

Computer and Information Systems Security/ Information Assurance (111003)	
4-Unit Program (Currently only offered at Concentrator level)	
537000CW	Cyber Security Fundamentals
537200CW	Advanced Cyber Security
<i>Additional Courses</i>	
502300CW	Fundamentals of Computing
502500CW	IT Fundamentals

Programming and Software Development (110201)	
3-Unit Program	
505000CW	Introduction to Computer Programming
505100CW	Intermediate Computer Programming
<i>Additional Courses</i>	
537200CW	Advanced Cyber Security
537000CW	Cyber Security Fundamentals
540000CW	Entrepreneurship
502300CW	Fundamentals of Computing
535200CW	Game Design and Development
502500CW	IT Fundamentals
517800CW	Professional and Leadership Development
539000CW	Information Technology, WBC



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Law, Public Safety, Corrections, and Security Pathways

Law Enforcement Services (430107)					
3-Unit Program					
651000CW	Law Enforcement Services 1	652000EW	DE: Introduction to Criminal Justice (CRJ 101)	653500EW	DE: Police Patrol (CRJ 110)
651100CW	Law Enforcement Services 2	654000EW	DE: Police-Community Relations (CRJ 224)		
<i>Additional Courses</i>					
650500CW	Introduction to Law, Public Safety, Corrections, and Security				
652000EW	DE: Introduction to Criminal Justice (CRJ 101)				
653000EW	DE: Introduction to Security (CRJ 102)				
659000CW	Law, Public Safety, etc. WBC				



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Science, Technology, Engineering, and Mathematics Pathways

PLTW Pre-Engineering (140101) 4-Unit Program (Currently only offered at Concentrator level)			
605100CW	PLTW – Introduction to Engineering Design	605000CW	PLTW – Principles of Engineering
or			
617800CW	DE: Fundamentals of CAD (EGT 152)	660200CW	DE: Engineering Tech Applications and Programming



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Transportation, Distribution, and Logistics Pathways

Automotive Technology (470604) 4-Unit Program	
603000CW	Automotive Technology 1
603100CW	Automotive Technology 2
603200CW	Automotive Technology 3
603300CW	Automotive Technology 4
Additional Courses	
679000CW	Transportation, Distribution, & Logistics, WBC