
Career & Technical Education Local Application

2026-2027 and 2027-2028

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ENGAGE. CHALLENGE. **INSPIRE.**


CTE Gives Purpose

Through Perkins V, CTE courses give opportunity and options to all students to find purpose in education through career connection.


CTE courses:

- provide students with hands-on learning
- provide students with MORE than a diploma
- allow students to apply core and prior knowledge


These Federal guidelines require each CTE program to use certain quantitative measures to monitor the quality of CTE programs and are measured through specific performance indicators.




Orange County Schools
Career & Technical Education




**is DEDICATED to
ensuring that EACH and
EVERY student GRADUATES**



Enrolled



Employed



Enlisted

Choice Ready



CTE by the Numbers

- **90+** CTE courses available
- **40** Industry Recognized Credentials
- **1100+** student credentials earned
- **73.1%** concentrators earned a credential
- **50+** work internship partnerships
- **95%** graduation rate



Orange County Schools NORTH CAROLINA		Career & Technical Education By the Numbers	
90+	CTE course options available to Orange County students spanning across 12 career clusters.		
74.5%	Orange County Middle school students enrolled in one or more CTE courses.		
69.3%	Orange County high school students enrolled in one or more CTE courses.		
40	Industry Recognized Credentials available to Orange County high school students.		
1100+	Recognized credentials earned by individual Orange County high school students.		
73.1%	Orange County CTE Concentrators (two or more CTE courses) who earned a recognized credential aligned to a high school CTE course.		
50+	Work Internship Partnerships available to Orange County high school students through work-based learning CTE courses.		
95%	Orange County CTE Concentrator graduation rate.		
1 Goal	Preparing Orange County students for Enrollment in Postsecondary education, Employment in the workforce, or Enlistment in the military.		

With CTE, students:

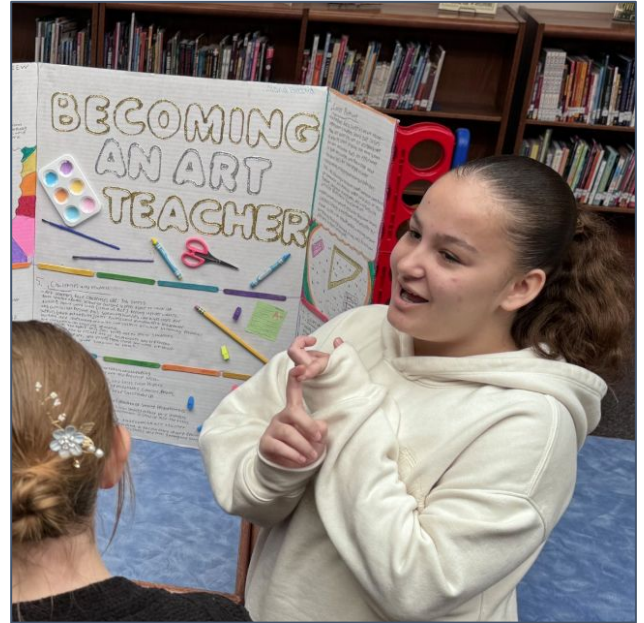
Build Real-World Skills | Earn Credentials | Become Choice Ready

Orange County CTE programs do not discriminate on the basis of race, color, national origin, sex, disability, or age in its activities and programs, including employment policies and practices.

CTE

Perkins V - Required Use of Funds

- Career exploration & development
- Career skills
- Academic integration
- Program implementation
- Professional development
- Program evaluation



Perkins V - Required Use of Funds

Career Exploration & Development | Career Skills



Perkins V - Required Use of Funds

Academic Integration | Program Implementation



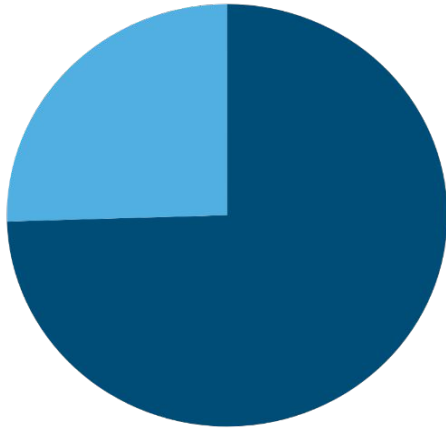
Perkins V - Required Use of Funds

Professional Development | Program Evaluation



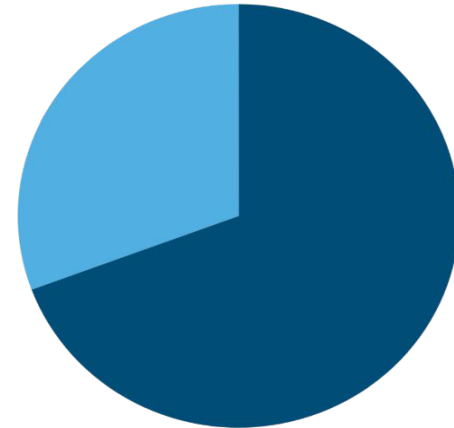
SY23-24 CTE Enrollment (Unduplicated)

Middle School



■ CTE Students (74.53%) ■ Non-CTE (25.47%)

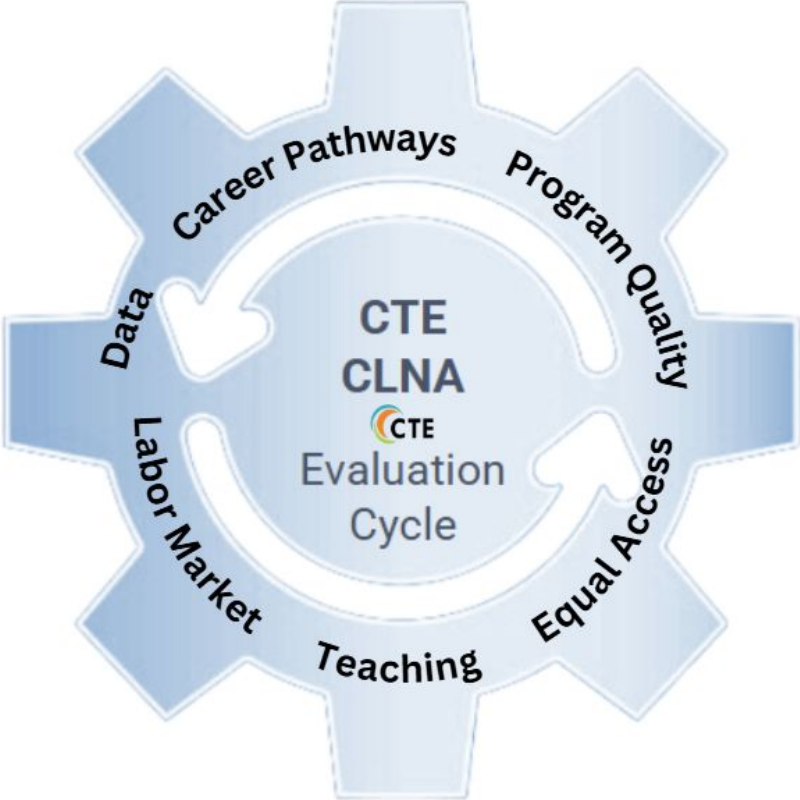
High School



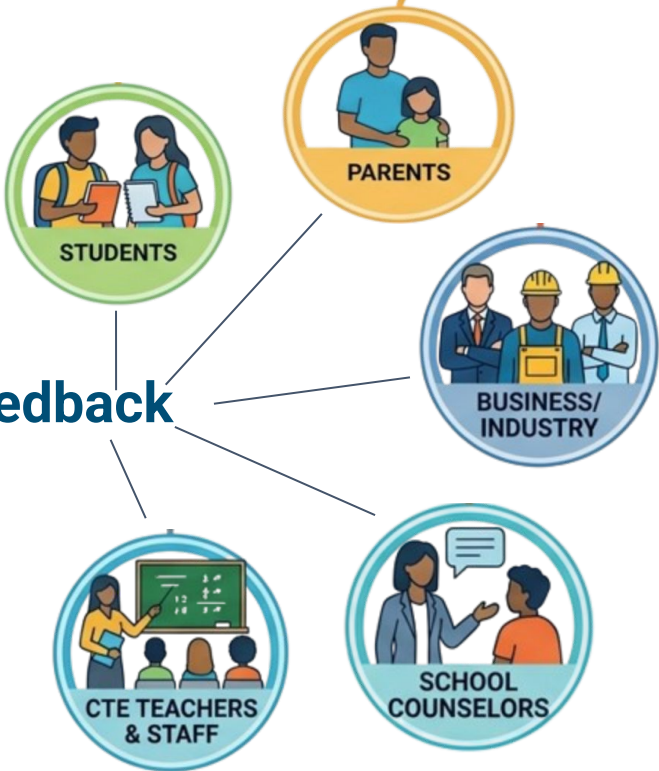
■ CTE Students (69.34%) ■ Non-CTE (30.66%)



Comprehensive Local Needs Assessment (CLNA)



Feedback



Areas for Growth



Teacher Retention

- Professional Development
- Continuous Improvement
- Industry Partnerships



Program Quality

- Programs of Study
- Postsecondary Alignment
- Work-Based Learning
- Career Development

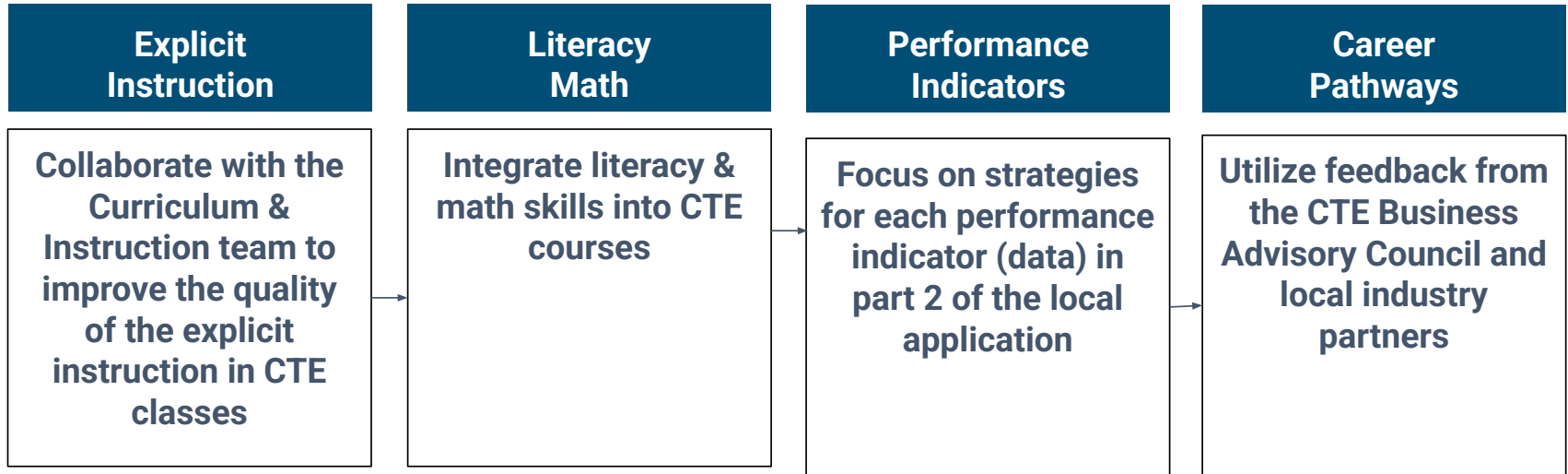


Student Support

- Equity & Access
- Special Populations
- Student Supports



Next Steps



Exciting News in CTE

- Association for CTE “Techniques” Magazine
- Summer Careers Academy
- Health Promotions Grant



Exciting News in CTE

- Project Lead the Way
Computer Science Grant
- Orange High School
Greenhouse Renovation
- Cedar Ridge High School
Agricultural Learning Lab




Exciting News in CTE

- NC Center for the Advancement of Teaching CTE Teacher of the Year Award
 - Mr. Cole Watkins
 - Agriculture Teacher
 - Orange High School



Exciting News in CTE



Career Clusters and Pathways



BUILDING & MOVING

ADVANCED MANUFACTURING

- Aerospace Engineering
- Automated Materials Joining
- Drafting Engineering
- Engineering
- Integrated Production Technologies
- Metals Manufacturing
- Technology Engineering and Design

CONSTRUCTION

- Carpentry
- Drafting Architectural
- Electrical Trades
- HVACR
- Masonry
- Plumbing
- Welding
- Woodworking

SUPPLY CHAIN AND TRANSPORTATION

- Automotive Body Repair
- Automotive Service
- Global Logistics and Supply Chain Management



CARING FOR COMMUNITIES

EDUCATION


- Early Childhood Development and Services
- Teaching/Training

HEALTHCARE AND HUMAN SERVICES

- Biomedical Technology
- Biotechnology Research and Development
- Counseling and Mental Health
- Food and Nutrition
- Health Informatics
- Healthcare Professional

PUBLIC SERVICE AND SAFETY

- Emergency Management
- Emergency Medical Technology
- Firefighter Technology
- Junior Reserve Officers Training Corps (JROTC)
- Law and Justice
- Public Safety



CONNECTING & SUPPORTING SUCCESS*

DIGITAL TECHNOLOGY AND COMPUTER SCIENCE*

- AP Computer Science
- Cisco Network Engineering
- Computer Engineering
- Computer Science
- Principles
- Data Science
- Network Administration
- Network Security
- Python Programming
- Robotics
- Unmanned Aircraft Systems

MANAGEMENT AND ENTREPRENEURSHIP*

- Business Ethics and Law
- Entrepreneurship
- General Management
- Office Administration
- Project Management

MARKETING AND SALES*

- Marketing Management
- Sales
- Sport and Event Marketing



CREATING & EXPERIENCING

ARTS, ENTERTAINMENT, AND DESIGN

- 3D Modeling and Animation
- Adobe Graphic Design
- Adobe Video Design
- Fashion Merchandising
- Fashion and Textile Design
- Game Art Design
- Interior Design

HOSPITALITY, EVENTS, AND TOURISM

- Culinary Arts Application
- Culinary Arts Internship
- Hospitality and Tourism Management



CULTIVATING RESOURCES

AGRICULTURE

- Animal Science
- Equine Science
- Food Products and Processing Systems
- Plant Systems
- Power, Structural, and Technical Systems
- Sustainable Agriculture

ENERGY AND NATURAL RESOURCES

- Clean Energy Technology
- Energy and Power
- Innovations in Science and Technology
- Natural Resources
- Solar Photovoltaics



INVESTING IN THE FUTURE

FINANCIAL SERVICES

- Accounting
- Economics
- Financial Planning

***CROSS-CUTTING CLUSTERS:**
denote careers that overlap in all industries, highlighting the versatile and interconnected nature of today's workforce. These careers can stand on their own or be contextualized in each cluster. They emphasize the need for adaptability in navigating the modern economy.

NOTE:
CTE Career Clusters and Pathways are listed in alphabetical order under each Cluster Grouping.



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CAREER AND TECHNICAL EDUCATION



CTE in Action

ENGAGE

(Hands-On Learning, Internships, Summer Programs)

CHALLENGE

(Rigorous Coursework, Credentials, Work-Based Learning)

INSPIRE

(Career Development & Readiness, Continuous Improvement)







Orange County Schools

NORTH CAROLINA

ENGAGE. CHALLENGE. **INSPIRE.**