CTE WORKS!

Career and technical education (CTE)
engages students and prepares them with the skills they need for fulfilling careers in vital, in-demand industries and occupations

CTE is associated with higher levels of student engagement[1] and reduced rates of dropout.[2] In fact, the **average high school graduation rate for CTE concentrators** – students who take multiple courses in one CTE program area – **is 94%**[3] compared to the national rate of 85%.[4]

CTE WORKS FOR HIGH SCHOOL STUDENTS

CTE concentrators are slightly **more likely** than non-concentrators **to enroll in post-secondary education and are just as likely to earn a degree or certificate.**[5]

High school CTE concentrators are **more likely** than non-concentrators **to be employed full time and have higher median annual earnings** 8 years after graduation.[6]

CTE WORKS FOR THE NATION

Despite millions of job openings around the country, **74% of employers report a persistent mismatch** between the skills they need and the skills workers have.[10]

CTE IS GOOD FOR STUDENTS, GOOD FOR BUSINESSES AND GOOD FOR COMMUNITIES!

The United States is facing a **projected deficit of 6.5 million skilled workers** over the next decade.[11] Some key industries and occupations facing talent shortages include:

- Health care[12]
- Manufacturing[13]
- Infrastructure[14]
- Operations and logistics[15]
- Information technology[16]
- Education[17]

Postsecondary CTE programs lead to careers in high-demand occupations. About **77% of employers from in-demand industries report hiring an employee because of** knowledge and skills gained from **their CTE experience**.[7]

A majority of U.S. workers, both employed and unemployed, report seeking additional career development or reskilling opportunities.[18] And **more than half of Americans** looking to develop job skills **prefer CTE-related programs and credentials**.[19]

CTE WORKS FOR POSTSECONDARY AND ADULT STUDENTS

Associate degree holders in CTE fields like architecture and engineering, health practitioner, skilled trade and computer occupations can **earn more than $2 million over their lifetimes, up to $2.8 million** – the same as the median lifetime earnings for workers with bachelor's degrees.[8]

Almost half of adults who complete programs that integrate basic skills education with technical training **earn a postsecondary credential**, compared to only 17% of adults in other basic skills programs.[9]
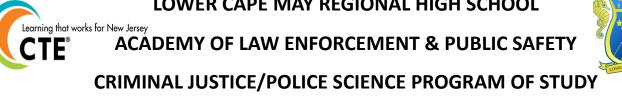
CTE WORKS!

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LEARN MORE ABOUT CTE
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LOWER CAPE MAY REGIONAL HIGH SCHOOL
ACADEMY OF LAW ENFORCEMENT & PUBLIC SAFETY
CRIMINAL JUSTICE/POLICE SCIENCE PROGRAM OF STUDY

SAMPLE OCCUPATIONS RELATING TO THIS PATHWAY:

Police and Patrol Officer, Police Detective and Criminal Investigator, Private Detective and Investigator, Sheriff and Deputy Sheriff, Animal Control Officer, Bailiff, Bomb Technician, Criminal Investigator and Special Agent, Evidence Technician, Federal Marshall, Game Enforcement Officer, Gaming Investigator, Highway Patrol Officer, Immigration and Customs Inspector, Park Ranger, Police, Fire, and Ambulance Dispatcher, Training officer, Transit and Railroad Police, Unemployment Fraud Investigator.

COURSE SEQUENCING:

- Introduction to Criminal Justice
- Terrorism and Homeland Security
- Forensics and Criminal Investigation

CERTIFICATIONS/STRUCTURED LEARNING EXPERIENCES (SLE'S):

*   Cape May County Police Academy Training/Class I Police Officer Certification

*   Atlantic Cape Community College– Six Credits in Criminal Justice

END OF PROGRAM ASSESSMENTS:

*   NOCTI Protective Services Exam

CAREER AND TECHNICAL STUDENT ORGANIZATION (C.T.S.O.)

SAMPLE OCCUPATIONS RELATING TO THIS PATHWAY:

Administrative Assistant, Advertising Sales Person, Auditor, Business Consultant, Certified Public Accountant, Corporate Trainer, E-Commerce Analyst, Entrepreneur, Facilities Manager, Finance Director, Human Resource Manager, Investment Executive, Marketing Analyst, Office Manager, Personnel Recruiter, Public Relations Manager, Sales Representative, Wholesale and Retail Buyer, Accounting Manager, Chief Executive, General Manager, Hospital Manager, Human Resource Manager, Meeting and Convention Planner, Sports and Entertainment Manager.

COURSE SEQUENCING:

- Introduction to Business
- Marketing
- Entrepreneurship
- Accounting (*optional)

CERTIFICATIONS/STRUCTURED LEARNING EXPERIENCES (SLE'S):

Various internship placements available in the LCMR School Store and in various businesses, corporations, and offices throughout the community.

END OF PROGRAM ASSESSMENTS:

A*S*K* Entrepreneurship Exam

CAREER AND TECHNICAL STUDENT ORGANIZATION (C.T.S.O.)

LOWER CAPE MAY REGIONAL HIGH SCHOOL

ACADEMY OF TELEVISION & BROADCASTING

RADIO & TELEVISION BROADCASTING PROGRAM

SAMPLE OCCUPATIONS RELATING TO THIS PATHWAY:

Art Director, Audio-Video Operator, Broadcast Technician, Control Room Technician,

Design Director, Editor, Journalist, Light Director, Producer, Publisher, Radio and Television Announcer, Reporter, Researcher, Station Manager, Writer.

COURSE SEQUENCING:

- Introduction to Digital Video Production
- Digital Video Production II
- Digital Video Production III

CERTIFICATIONS/STRUCTURED LEARNING EXPERIENCES (SLE'S):

*   Structured Learning Experiences available at the LCMR Today Show Studio, KYW Broadcasting Studios in Philadelphia, and at various local radio stations.

END OF PROGRAM ASSESSMENTS:

*   NOCTI Television Production End of Program Assessment

CAREER AND TECHNICAL STUDENT ORGANIZATION (C.T.S.O.)

LOWER CAPE MAY REGIONAL HIGH SCHOOL

ACADEMY OF CULINARY ARTS

COOKING & RELATED CULINARY ARTS PROGRAM OF STUDY

SAMPLE OCCUPATIONS RELATING TO THIS PATHWAY:

Chefs and Head Cooks, 1st Line Supervisor (Service/Food Prep), Institution and Cafeteria Cooks, Resturant Cooks.

COURSE SEQUENCING:

- Introduction to Culinary arts

- Culinary Arts II

- Advanced Culinary Arts

- Culinary Arts IV (Optional)

- Baking and Pastry Arts I, II, & III (available and optional)

COLLEGE CREDITS AVAILABLE:

- Atlantic Cape Community College -3 Credits in Culinary Arts for full Course Sequence

- Art Institute of Philadelphia - 9 Credits in Culinary Arts for Advanced Culinary Arts

- Restaurant School at Walnut Hill College– 1.5 Credits for students who earn ServeSafe Certification

CERTIFICATIONS/STRUCTURED LEARNING EXPERIENCES (SLE'S):

- ServeSafe Certification for successful completion of ServeSafe Exam

- Internships available in the LCMR Cape Café and at various Restaurants throughout the community

END OF PROGRAM ASSESSMENTS:

- ServeSafe Certification Exam

- NOCTI Culinary Arts Level I Prep Cook Exam

CAREER AND TECHNICAL STUDENT ORGANIZATION (C.T.S.O.)

LOWER CAPE MAY REGIONAL HIGH SCHOOL

ACADEMY OF ENGINEERING

ENGINEERING PROGRAM OF STUDY

SAMPLE OCCUPATIONS RELATING TO THIS PATHWAY:

Civil, Electrical, Mechanical, Aerospace, Aeronautical, Computer, Biotechnical, and Environmental Engineering careers.

COURSE SEQUENCING:

- Introduction to Engineering Design
- Principles of Engineering
- Digital Electronics
- Civil Engineering & Architecture
- Environmental Sustainability

CERTIFICATIONS/STRUCTURED LEARNING EXPERIENCES (SLE'S):

- 12 Engineering Credits from Rochester Institute of Technology
- 4 Credits from Rowan University

END OF PROGRAM ASSESSMENTS:

*   PLTW/Rochester Institute of Technology End of Course Exams at the conclusion of each course.

CAREER AND TECHNICAL STUDENT ORGANIZATION (C.T.S.O.)

LOWER CAPE MAY REGIONAL HIGH SCHOOL

Computer Science

(Developing Program of Study)

SAMPLE OCCUPATIONS RELATING TO THIS PATHWAY:

Students in the Software and Systems Development pathway prepare for careers related to computer science that involve the design, development, implementation, maintenance, and management of systems that rely on software programs to satisfy the operational needs of modern business organizations. Persons with expertise in systems development and programming are critical to support operations like electronic commerce, medical records management, retail sales and inventory management, digital entertainment, and use of energy. Sample occupations associated with this pathway: Computer Programmer Software Developer/ Applications Information Security Analyst Web Developer E-Business/E-Commerce Specialist .

COURSE SEQUENCING:

- AP Computer Science Principles
- AP Computer Science A
- Cybersecurity (Available Fall 2019)

CERTIFICATIONS/STRUCTURED LEARNING EXPERIENCES (SLE'S):

*   College credits available for passing End of Course AP exams. Dual Credit agreements in development with NJ Colleges.

*   Internships and SLE opportunities available with several community partners.

END OF PROGRAM ASSESSMENTS:

AP Computer Science Principles and AP Computer Science A Exams.

CAREER AND TECHNICAL STUDENT ORGANIZATION (C.T.S.O.)

LOWER CAPE MAY REGIONAL HIGH SCHOOL

Biomedical Science

(Developing Program of Study)

SAMPLE OCCUPATIONS RELATING TO THIS PATHWAY:

Analytic chemist, Anatomist, Animal biochemist, Animal ecologist, Biological photographer, Biologist, Biophysicist, Botanist, Chemical analyst, Clinical cytogeneticist, Clinical immunologist, Dietitian/researcher, Editor (scientific and technical publications), Environmental scientist, Exercise therapist, Food and drug analyst, Forensic scientist, Geneticist, Geriatric rehabilitator, Hematologist, Hospital administrator, Medical illustrator, Medical librarian, Molecular geneticist, Nuclear medical technologist, Occupational therapist, Oceanographer, Optometrist, Orthopedists, Pharmacologist, Physical therapist, Physician, Plant physiologist, Pollution controller, Production chemist, Psychologist, Public health educator, Surgeon, Tissue and transplant coordinator, Veterinarian/lab animal care, Water quality analyst/technician, Writer/scientific, technical, Zoologist.

COURSE SEQUENCING:

- Principles of Biomedical Science

- Human Body Systems (Starts Fall 2019)

- Medical Interventions (Scheduled Implementation Fall 2020)

- Biomedical Innovation (Scheduled Implementation Fall 2021)

CERTIFICATIONS/STRUCTURED LEARNING EXPERIENCES (SLE'S):

- College Dual Credit Agreements in development with NJ Colleges

- SLE and Internship opportunities available in local hospitals and medical facilities.

END OF PROGRAM ASSESSMENTS:

*   PLTW End of Course Assessments at the end of each course.

CAREER AND TECHNICAL STUDENT ORGANIZATION (C.T.S.O.)