Program Catalog 2018-2019

LAKE SHORE





For more information, visit www.LakeShoreCompact.org.



Exploring careers.

From the Director.

Lake Shore Compact is a career technical consortium serving the school districts of Euclid, Mentor, and Wickliffe offering over 17 unique programs. Our primary objective is to prepare students to enter a four or two year college, a technical school or the career of their choosing. Students who successfully complete their program are eligible to receive college credit according to College Tech Prep and CT² requirements.

Students who are in their sophomore year will have the opportunity to apply to one of our exciting programs. We will be presenting to all sophomore students in early November during the school day at their home school. Parents and students will be invited to meet our teachers and learn about our programs during our Expo Night on December 5, 2017 at Euclid High School. You can find the dates and times for many other events on the back cover of this catalog. Mailings will also be sent to sophomore students and their families as a reminder of the events and times.

I hope you take a moment to read through this 2018-19 Program Catalog and visit our website to learn more about each program. Our website has videos that summarize each program as well as student testimonials. Students are encouraged to speak with our Student Ambassadors when they visit your school's cafeteria and participate in Teacher Follow-up Days to meet the program instructor. Check with your school counselor for additional information.

Sincerely,

Jason Crowe, Director Lake Shore Compact

YOUR FUTURE STARTS NOW!!

The Lake Shore Compact does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities and provides equal access to the Boy Scouts and other designated youth groups.

Inquiries regarding nondiscrimination policies should be directed to:

Kathy Burnett, Human Resource Director Mentor Public Schools Mentor Board of Education 6451 Center Street Mentor, Ohio 44060

Phone: (440) 974-5201

To obtain this information in another another language (i.e. Spanish), call (440) 974-5336.



Discovering futures.



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Fast Facts

What PARENTS need to know about the Lake Shore Compact

- -Our programs are for all students; those who will be going to a two/four year university, technical school, military or straight to work will benefit from our project based, real-world curriculum.
- -College credit is available to students who have successfully completed their program and who have met all of the requirements of the articulated credit. Qualified students may also participate in the College Credit Plus Program.
- -Students could enter college with at least one semester of credits; saving time, travel and tuition expenses estimated at over \$2,000.
- -An application is required. Students can apply for two programs by visiting www.LakeShoreCompact.org.
- -All programs incorporate employability skills, including resume writing, job networking and interview skills.
- -Transportation is provided to and from the program, but is not provided for senior year job placements, capstones, internships, or work sites.
- -Students have received scholarships to a number of colleges and universities.
- -Students will graduate from their home high school and can participate in sports and extracurricular activities at their home school.
- -All programs are two years (beginning in the junior year).

Glossary of Terms:

What is COLLEGE TECH PREP?

College Tech Prep equips students for high-skill, high-wage career demanded in a competitive economy. Students are prepared to transition with technical skills, obtain college prep academics and receive college credit for high school coursework. It is about being college and career ready.

What is

STEAM is a curriculum based initiative of educating students in five disciplines - Science, Technology, Engineering, Arts and Math. This initiative will help students be competitive locally, nationally and globally in many career fields.

What is a CAREER FIELD?

A career field is an organizing and curricular tool, which groups occupations that share a fundamental base of knowledge and skills. Each Career Field includes challenging technical coursework, rigorous academics and technical literacy.

What is a CAREER PASSPORT?

Each College Tech Prep student creates his or her Career Passport before graduation. The Passport is a professional portfolio containing the student's resume, personal file, grade transcripts, attendance records and reference letters, as well as any certificates or awards.

What is a CT²?

A CT² is college credit that is guaranteed to transfer to public colleges or universities within the state of Ohio. Transferred CT² credit must be applicable to the student's major or course of study.

VISUAL COMMUNICATIONS



PROGRAM OUTCOMES:

Successful completion of the program will provide the student with:

KNOWLEDGE and SKILLS

- Career exploration and employability traits
- Business processes
- Communications
- Legal and ethical responsibilities
- Safety
- Visual design
- Digital design
- Layout
- Screen printing
- Art history
- Elements and principles of design
- Drawing and painting skills
- 3-D design
- Adobe Photoshop and InDesign

POSSIBLE CERTIFICATIONS:

Adobe Photoshop Adobe InDesign

OTHER PROGRAM INFO:

Student Organization: SkillsUSA

Program Fees:

Check our website for the current program fees.

Suggested Preparation:

Art classes (art portfolio) and Algebra I



Junior Year: Art history Career exploration Elements and principles of design



Tools and techniques Illustration Digital design Media exploration Art competitions

Senior Year:

Career development
Visual/Digital problem solving
Art competitions
Portfolio preparation
Senior art show
Capstone experience

Academic Day:

Students remain at Euclid High School for program time only. Students return to home schools for academics.

Related Occupations:

Fine Artist Graphic Designer
Illustrator Tattoo Artist
Animators and Multimedia Artist Photographer
Cartoonist Web Designer

Location: Euclid High School
Teacher: Edie Mellen

E-mail: emellen@euclidschools.org

Phone No.: 216.797.7874

Junior Year: 7:30 a.m. – 10:00 a.m. **Senior Year:** 10:45 a.m. – 1:17 p.m.

HS Credits: 3/year

Students who have successfully completed the program and met the requirements for college credit can earn up to:

9 COLLEGE CREDITS

CONSTRUCTION MANAGEMENT

MENTOR HIGH PROGRAM LOCATED AT LAKELAND COMMUNITY COLLEGE

PROGRAM OUTCOMES:

Successful completion of the program will provide the student with:

KNOWLEDGE and SKILLS

- Construction Technology: Core and Sustainable Construction
- Carpentry and masonry technical skills
- Structural systems
- Structural covering and finishes
- Remodeling/renovation

POSSIBLE CERTIFICATIONS:

CareerSafe OSHA (10 hour)



OTHER PROGRAM INFO:

Student Organization:

SkillsUSA

Program Fees:

Check our website for the current program fees.

Suggested Preparation:

Industrial art electives, Geometry, Algebra I & II

Junior Year:

Proper operation of tools/equipment Job estimation Masonry work Framing Construction math needed on the job Development of individual projects



Senior Year:

STEAM

Remodeling/Renovation of a home to include: planning and design; estimating/budgeting; demolition; insulating; dry walling; painting; flooring; trim work; framing; installation of windows, doors and cabinets; siding, roofing; light plumbing and electrical work.

Development of portfolios

Capstone experience

Academic Day:

Students remain at Lakeland Community College for program time only. Students return to home schools for academics. Senior students will work on a renovation project off campus.

Related Occupations:

Civil Engineers Building Inspectors
Carpenters Cost Estimators
Construction Workers Equipment Operators

Location: Lakeland Community College

Teacher: Charlie Stewart

E-mail: stewartc@mentorschools.org

Phone No.: 440.974.5336

Junior Year: 7:30 a.m. – 10:00 a.m. **Senior Year:** 11:30 a.m. – 2:00 p.m.

HS Credits: 3/year

Students who have successfully completed the program and met the requirements for college credit can earn up to:

11 COLLEGE CREDITS



EARLY CHILDHOOD EDUCATION

PROGRAM OUTCOMES:

Successful completion of the program will provide the student with:

KNOWLEDGE and SKILLS

- Introduction to education and training
- Foundations of education
- Philosophy of educational best practices
- Safety and health
- Technology and education
- Child growth and development
- Developmentally appropriate practices
- Professional responsibilities and growth
- Value of music and art in child learning
- Appropriate guidance techniques
- Diversity and children
- Children and nutrition
- Learning environments and learning centers
- Child care business operations
- Preschool licensing laws
- Ohio learning content standards

REQUIRED CERTIFICATIONS:

Red Cross CPR

In-service certifications for: child abuse recognition and prevention, communicable disease and first aid

OTHER PROGRAM INFO:

Student Organization: Educators Rising

Program Fees:

Check our website for the current program fees.

Suggested Preparation:

College preparatory courses for teacher training programs

Junior Year:

Students will gain knowledge on the growth and development of a typical child. Ages discussed will heavily focus on preschool ages; 3, 4, and 5. Student will gain experience while working in the lab, planning and delivering lessons.

Senior Year:

Students will choose a placement and will work 3 hours a day with young learners. Students will learn about employability skills and will create their personal philosophy of education. Seniors can be placed in their home district and sites can vary from schools, daycare or preschool buildings. Capstone experience.

Academic Day:

Students may choose to remain at Mentor High School for program and required academics or return to home school for required academics.



Related Occupations:

Child Care Worker

Elementary School Teacher **Preschool Teacher**

Librarian

Teacher Aide/Assistant **Special Education Teacher**

Location: Mentor High School Teacher: Marissa Manocchio

E-mail: manocchio@mentorschools.org

Phone No.: 440.974.5343

Junior Year: 8:15 a.m. – 10:54 a.m. **Senior Year:** 11:52 a.m. – 2:22 p.m.

(laboratory setting - 3 hours per

day with 3, 4, & 5 year olds)

HS Credits: 3/year

Students who have successfully completed the program and met the requirements for college credit can earn up to:

7 COLLEGE CREDITS

CAD/ENGINEERING TECHNOLOGY

MENTOR HIGH PROGRAM LOCATED AT LAKELAND COMMUNITY COLLEGE

PROGRAM OUTCOMES:

Successful completion of the program will provide the student with:

KNOWLEDGE and SKILLS

- Manual drafting and CAD drawing techniques
- 2-D CAD drawing techniques (AutoCAD)
- Use of measuring tools
- Northeast Ohio Robotics Competition
- Metallurgy concepts
- 3-D solid modeling (SolidWorks)
- Engineering design concepts
- Product fabrication processes including: casting techniques, welding, plastics, hot and cold forming of metals
- Heat treating and mechanical testing

POSSIBLE CERTIFICATIONS:

Certified Solid Works Associate (CSWA) CareerSafe OSHA (10 hour)

OTHER PROGRAM INFO:

Student Organization:

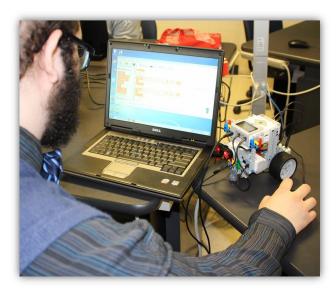
SkillsUSA

Program Fees:

Check our website for the current program fees.

Suggested Preparation:

Successful completion of Algebra I, Industrial Arts and career technical electives



Junior Year:

Manual drafting
2-D AutoCAD (architectural and mechanical)
Measuring tools
Northeast Ohio Robotics Competition
Product fabrication processes

Senior Year:

STEAM

3-D SolidWorks
Product fabrication processes
Product design process
Northeast Ohio Robotics Competition
Capstone experience



Academic Day:

Students remain at Lakeland Community College for program time only. Students return to home schools for academics.

Related Occupations:

Civil, Mechanical, and Industrial Engineers Engineering Technicians Architectural Designer

Location: Lakeland Community College

Teacher: Mike Prochaska

E-mail: prochaskam@mentorschools.org

Phone No.: 440.974.5336

Junior Year: 7:30 a.m. – 10:00 a.m. **Senior Year:** 11:30 a.m. – 2:00 p.m.

HS Credits: 3/year

Students who have successfully completed the program and met the requirements for college credit can earn up to:

23 COLLEGE CREDITS

ALLIED HEALTH

PROGRAM OUTCOMES:



Successful completion of the program will provide the student with:

KNOWLEDGE and SKILLS

- Clinical and skills lab experience
- Interpersonal communication skills
- Standard precautions knowledge
- Scientific method application
- Patient assessment knowledge
- Accurate vital signs measurement
- Patient plan of care
- Understanding of medical ethics and law

Medical Terminology

- Diseases and treatments
- Diagnostic procedure
- Human body systems and structure

Mental Health

- Psychiatric disorders
- Mental diseases
- Problem solving techniques and treatment
- Intervention strategies
- Therapeutic communication techniques

POSSIBLE CERTIFICATIONS:

State Test Nursing Assistant (STNA)
Home Health Aide (HHA)
American Heart Association (Blood Borne Pathogens, CPR, BLS, AED for Healthcare Providers)
CareerSafe OSHA (10 hour)

OTHER PROGRAM INFO:

Student Organization:

HOSA – Future Health Professionals

Program Fees:

Check our website for the current program fees.

Suggested Preparation:

Successful completion of Algebra I, Geometry, Biology and Health.

Junior Year:

Medical Terminology Mental Health

Senior Year:

Patient Care Allied Health



Academic Day:

Students remain at Mentor High School for program time only. Students return to home schools for academics.

Related Occupations:

Athletic Trainer
Respiratory Therapist
Dental Hygienist
Medical & Health Services
Physician Assistant
Physical Therapist
Occupational Therapist
Phlebotomists

Emergency Medical Services
Health Administrator
Pharmacy Technician
Medical Assistant
Surgical Technologists
Dietitians and Nutritionists
Radiologic & MRI Technician
Speech-language Pathologist

Location:Mentor High SchoolTeacher:Rachael Inghram, RN

E-mail: ringhram@mentorschools.org

Phone No.: 440.974.5336

Junior Year: 8:15 a.m. – 10:54 a.m. **Senior Year:** 11:52 a.m. – 2:26 p.m.

HS Credits: 3/year

Students who have successfully completed the program and met the requirements for college credit can earn up to:

5 COLLEGE CREDITS



PATIENT CARE / HEALTH INFORMATION / DATA (PHD)

PROGRAM OUTCOMES:

Successful completion of the program will provide the student with:

KNOWLEDGE and SKILLS

- HIPPA (Health Insurance Portability and Accountability Act) regulatory compliance guidelines
- Basic knowledge of insurance and billing
- Effective use of EHR (Electronic Health Record) software
- Monitoring of patient charts for completeness and accuracy in documentation
- Foundational knowledge of medical terminology
- Law & ethics for healthcare professionals
- Critical thinking
- Teambuilding
- Project and presentation skills

POSSIBLE CERTIFICATIONS:

State Test Nursing Assistant (STNA)
Certified Electronic Health Records Specialist (CEHRS)

OTHER PROGRAM INFO:

Student Organization:

HOSA – Future Health Professionals

Program Fees:

Check our website for the current program fees.

Suggested Preparation: None

Junior Year:

Introduction to Health Information Management STNA Course at Cuyahoga Community College (Tri-C) Medical Terminology

Senior Year:

Health Information Technology
Health Information Management

Academic Day:

Students remain at Euclid High School for program time only (juniors will travel to Tri-C for STNA training).
Students return to home schools for academics.

Related Occupations:

Health Information Management Clerk
Medical and Health Service Managers
Patient Registrar
Benefits Coordinator
Customer Service Representative (Medical Billing & Patient Registration)



Location:Euclid High SchoolTeacher:Courtney Webb

E-mail: cdwebb@euclischools.org

Phone No.: 216-797-7936

Junior Year: 10:45 a.m. – 1:17 p.m. **Senior Year:** 7:30 a.m. – 10:00 a.m.

HS Credits: 3/year

Students who have successfully completed the program and met the requirements for college credit can earn up to:

COLLEGE CREDITS TBD

CULINARY ARTS

EUCLID HIGH PROGRAM LOCATED AT EUCLID SHORE CULTURAL CENTER

PROGRAM OUTCOMES:

Successful completion of the program will provide the student with:

KNOWLEDGE and SKILLS

- Safety
- Sanitation
- Use of kitchen equipment
- State of the art POS system
- Soups, sauces and stocks
- Breads, cakes and pies
- Preparation of meats and fish
- Customer service
- Culinary competitions
- Work experience in the classroom
- On-the-job work experience
- Purchasing and receiving

POSSIBLE CERTIFICATIONS:

ServSafe

American Culinary Federation – Certified Culinarian (CC) ProStart COA

Associate of Nutrition & Foodservice Professionals (ANFP) CareerSafe OSHA (10 hour & 30 hour) CPR First Aid

OTHER PROGRAM INFO:

Student Organizations:

FCCLA—Skills USA ProStart—NRAEF

Program Fees:

Check our website for the current program fees.

Suggested Preparation:

Family consumer science electives





Junior Year:

Food preparation Safety and sanitation Baking basics Culinary math

Senior Year:

Food history Student-run restaurant Mentored work experience Certification from ProStart

Academic Day:

Students remain at Euclid Shore Cultural Center for program time only. Students return to home schools for academics.

Related Occupations:

Bakers Restaurant Host
Caterer Short-order Cook
Dietetic Technician Winemaker
Food Prep Workers Chef

Location: Euclid Shore Cultural Center

Teacher: Chef Dan Esquivel

E-mail: desquivel@euclidschools.org

Phone No.: 216.261.2073

Junior Year: 7:30 a.m. – 10:00 a.m. **Senior Year:** 10:45 a.m. – 1:17 p.m.

HS Credits: 3/year

Students who have successfully completed the program and met the requirements for college credit can earn up to:

10 COLLEGE CREDITS



CISCO Networking

Honors Level Program – Students will receive additional .5 in the GPA for each credit earned.

PROGRAM OUTCOMES:

Successful completion of the program will provide the student with:

KNOWLEDGE and SKILLS

- Networking fundamentals
- WAN technologies
- Basic networking security
- Wireless concepts
- Configure routing and switching networks
- Operate routing and switch networks
- OSI model
- Remotely access network devices
- Utilize the Raspberry Pie Platform
- TCP/IP
- Access control lists
- VLANS
- Basic computer concepts and skills
- Internet of Things/ Digitization

POSSIBLE CERTIFICATIONS:

CompTia Network +

Cisco Certified Entry Networking Technician (CCENT)
Cisco Certified Network Associate (CCNA)

Microsoft Technology Associate - IT Infrastructure

OTHER PROGRAM INFO:

Student Organization:

Business Professionals of America

Program Fees:

Check our website for the current program fees.

Suggested Preparation:

Completion of Algebra I and Geometry; general/basic computer courses

Junior Year:

Fundamental networking concepts
Hands-on pc and networking equipment labs
Wireless fundamentals
SOHO concepts of networks
Prepare for CCENT
Design and create simple IoT devices
Internet of Things

Senior Year:

Advance network design concepts
Configure routing protocols
Configure hierarchical switched networks
Cyber Technology Security
Prepare for CCNA and MTA
Capstone experience

Academic Day:

STEAM

Students remain at Euclid High School for program time only. Students return to home schools for academics.



Related Occupations:

Network Engineer Network Support Specialist Computer Systems Analyst VoIP Voice Engineer Network Security Administrator Computer Network Support Computer Network Architect Computer Programmer

Location: Euclid High School **Teacher:** Roy Pignatiello

E-mail: rpignatiello@euclidschools.org

Phone No.: 216.797.7850

Junior Year: 7:30 a.m. – 10:00 a.m. **Senior Year:** 10:45 a.m. – 1:17 p.m.

HS Credits: 3/year

Students who have successfully completed the program and met the requirements for college credit can earn up to:

24 COLLEGE CREDITS

COMPUTER INFORMATION SYSTEMS (CIS)

MENTOR HIGH PROGRAM LOCATED AT LAKELAND COMMUNITY COLLEGE

PROGRAM OUTCOMES:

Successful completion of the program will provide the student with:

KNOWLEDGE and SKILLS

- Computer and mobile application development
- Database design and programming
- Web Design, development and programming
- System and software development methods
- Implement business applications
- Design solutions using critical thinking
- Create team projects and presentations

POSSIBLE CERTIFICATIONS:

Students may elect to continue their studies and are encouraged to look into industry certifications for Microsoft, Oracle, IBM, Adobe and ITIL. CareerSafe OSHA (10 hour)

OTHER PROGRAM INFO:

Student Organization:

SkillsUSA

Program Fees:

Check our website for the current program fees.

Suggested Preparation:

Algebra, computer science and business electives





Junior Year:

STEAM

Object-oriented programming
Systems analysis and design
Web design, development and programming

Senior Year:

Database administration
Programming with mobile applications
Web development and scripting
Capstone experience

Academic Day:

Students remain at Lakeland Community College for program time only. Students return to home schools for academics.

Related Occupations:

Application Programmer Systems Analyst/Data Analyst User Experience Developer Web Application Developer

Location: Lakeland Community College

Teacher: Melinda O'Connor

E-mail: OconnorM@mentorschools.org

Phone No.: 440.974.5336

Junior Year: 7:30 a.m. – 10:00 a.m. **Senior Year:** 11:30 a.m. – 2:00 p.m.

HS Credits: 3/year

Twitter: @MelindaOConnor5

Website: sites.google.com/site/lakelandcis

Students who have successfully completed the program and met the requirements for college credit can earn up to:

24 COLLEGE CREDITS

INFORMATION TECHNOLOGY SERVICES (ITS)

MENTOR HIGH PROGRAM LOCATED AT LAKELAND
COMMUNITY COLLEGE

PROGRAM OUTCOMES:

Successful completion of the program will provide the student with:

KNOWLEDGE and SKILLS

- Computer hardware and component subsystems
- Operating system installation and support
- End user education and training
- Selection, use and support of computer applications
- Business industry support and practices
- Network essentials and business practices
- Security essentials and business practices
- Project management
- Information technology resource optimization
- Professional business skills

POSSIBLE CERTIFICATIONS:

CompTIA A+ CareerSafe OSHA (10 hour)

OTHER PROGRAM INFO:

Student Organization:

SkillsUSA

Program Fees:

Check our website for the current program fees.

Suggested Preparation: Computer science electives

Junior Year:

Hardware Project management Customer service Solution creation



Senior Year:

STEAM

Operating systems Server administration Network administration Security Capstone experience



Academic Day:

Students remain at Lakeland Community College for program time only. Students return to home schools for academics.

Related Occupations:

Computer Support Specialist Computer Systems Administrators Computer Systems Analyst Engineering Technicians Computer Hardware Engineer

Location: Lakeland Community College

Teacher: Kenn Stopek

E-mail: stopek@mentorschools.org

Phone No.: 440.974.5336

Junior Year: 7:30 a.m. – 10:00 a.m. **Senior Year:** 11:30 a.m. – 2:00 p.m.

HS Credits: 3/year

Students who have successfully completed the program and met the requirements for college credit can earn up to:

31 COLLEGE CREDITS



INTERACTIVE MEDIA



PROGRAM OUTCOMES:

Successful completion of the program will provide the student with:

KNOWLEDGE and SKILLS

- Web, app and game programming skills
- Interactive media programming
- Web design and webmaster skills and experience
- Video production, editing and special effects
- Live TV studio crew production
- 2D and 3D animation and graphics
- Digital photography
- · Audio recording and editing
- Adobe Creative Suite (Photoshop, InDesign, Illustrator, Premiere, After Effects, etc.)
- Advanced computer skills

CERTIFICATIONS POSSIBLE:

Adobe Certified Associate: Photoshop, Premiere Pro, Illustrator, InDesign, IC3 (Internet & Computing Core Certification), CareerSafe OSHA (10 hour)

OTHER PROGRAM INFO:

Student Organization:

SkillsUSA

Program Fees:

Check our website for the current program fees.

Suggested Preparation:

Keyboarding and basic computer skills

Junior Year:

Video and Sound Creating and Editing Digital Graphics

Senior Year:

Web Design Game Development Information Technology Capstone Experience

Academic Day:

Students may choose to remain at Mentor High School for program and required academics or return to home school for required academics.

Related Occupations:

Graphic Designer IT Professional File and Video Editor Special Effects Editor Video Production Web Designer



Location: Mentor High School

Teacher: Mark Lynch

E-mail: lynchms@mentorschools.org

Phone No.: 440.974.5434

Junior Year: 8:15 a.m. – 10:54 a.m. **Senior Year:** 11:52 a.m. – 2:26 p.m.

HS Credits: 3/year

Students who have successfully completed the program and met the requirements for college credit can earn up to:

25 COLLEGE CREDITS

CRIMINAL JUSTICE

PROGRAM OUTCOMES:

Successful completion of the program will provide the student with:

KNOWLEDGE and SKILLS

- Legal and ethical responsibilities
- Safety and environment
- Homeland security
- Emergency telecommunications
- Overview of forensic science
- Court system
- Computer crime
- Criminal investigation
- Technology applications

POSSIBLE CERTIFICATIONS:

First Aid, CPR/AED
CareerSafe OSHA (10 hour)
Federal Emergency Management Agency (FEMA)
National Incident Management System (NIMS)
Ohio Peace Officer's Training Commission
Private Security Officer



OTHER PROGRAM INFO:

Student Organization:

SkillsUSA

Program Fees:

Check our website for the current program fees.

Suggested Preparation:

None

Junior Year:

Area of Focus: Justice System

Public safety core

American criminal justice system

Homeland security protecting America's critical

infrastructure

The correctional system and services



Senior Year:

Area of Focus: Ohio Peace Officer Training Commission
Private Security Academy
Police work and practice in public safety
Criminal investigations and forensics
Law and public safety
Capstone experience

Academic Day:

Students remain at Euclid High School for program time only. Students return to home schools for academics. Attendance is mandatory on Academy days.

Related Occupations:

Corrections Officer Police Officer

Security Guard 911 Telecommunications
Deputy Sheriff Homeland Security
TSA Agent Criminal Lawyer

Location: Euclid High School

Teacher: Commander Nicholas Selvaggio **E-mail:** nselvaggio@euclidschools.org

Phone No.: 216.797.7880

Junior Year: 7:30 a.m. – 10:00 a.m. **Senior Year:** 10:45 a.m. – 1:17 p.m.

HS Credits: 3/year

Students who have successfully completed the program and met the requirements for college credit can earn up to:

9 COLLEGE CREDITS

FIRE SCIENCE/EMT

PROGRAM OUTCOMES:

Successful completion of the program will provide the student with:

KNOWLEDGE and SKILLS

- Overview of firefighting and EMS
- · Firefighter tools and equipment
- Ropes, knots, ladders
- Personal protective equipment
- Anatomy and physiology
- Patient assessment and airway management
- Medical emergencies
- Trauma emergencies
- Interpersonal communications
- Science applications

POSSIBLE CERTIFICATIONS:

Firefighter I & II NIMS ICS100 & 700 NREMT-B AHA BLS HCP

HazMat Awareness & HazMat Operations

Emergency Vehicle Operator

Optional certifications: APCO Emergency

Telecommunicator

OTHER PROGRAM INFO:

Student Organization: SkillsUSA

Program Fees:

Check our website for the current program fees.

Suggested Preparation:

Physical science and Algebra I





Junior Year:

Volunteer firefighter Emergency medical responder Cardiopulmonary resuscitation (CPR) National Incident Management System/ICS

Senior Year:

EMT-Basic
Field clinical time
Firefighter I & II
Emergency vehicle operations
Live burn training
HazMat operations
Emergency telecommunicator/Dispatch

Academic Day:

Students remain at Euclid High School for program time only during their junior year. Senior year classes are held at Cuyahoga Community College - West. Students return to home schools for academics.

Related Occupations:

EMS Dispatcher ER/Critical Care Life Flight Nurse Firefighter

Location: Euclid High School **Instructor:** John Padley

E-mail: jpadley@euclidschools.org

Phone No.: 216.797.7932

Junior Year: 8:25 a.m. – 10:00 a.m. **Senior Year:** 11:20 a.m. – 2:20 p.m.

HS Credits: 3/year

Students who have successfully completed the program and met the requirements for college credit can earn up to:

11 COLLEGE CREDITS

COMPUTER NUMERIC CONTROLLED MANUFACTURING TECHNOLOGY (CNC)

MENTOR HIGH PROGRAM LOCATED AT LAKELAND
COMMUNITY COLLEGE

PROGRAM OUTCOMES:

Successful completion of the program will provide the student with:

KNOWLEDGE and SKILLS

- CAD drawing techniques (AutoCAD— Introduction)
- Use of measuring tools
- Use of hand tools and manual machines
- CNC set up and operation
- CNC programming
- SURFCAM software
- 3-D solid modeling (Introduction)
- Geometry and trigonometry applications
- Quality control principles
- Precision turning and milling

POSSIBLE CERTIFICATIONS:

National Occupational Competency Testing Institute (NOCTI)



OTHER PROGRAM INFO:

Student Organization: SkillsUSA

Program Fees:

Check our website for the current program fees.

Suggested Preparation: Successful completion of Algebra I

Junior Year:

AutoCAD
Shop safety
Blueprint reading
Measuring tools and inspection techniques
Manual machining
SolidWorks (Introduction)

SurfCAM (Introduction)
CNC programming (Introduction)
CNC machining (Introduction)
AWT Battlebot Competition

Senior Year:

AutoCAD

STEAM

CNC programming (Advanced)
SurfCAM (Advanced)
AWT Battlebot Competition
Internship opportunities for qualified students
Capstone experience



Academic Day:

Students remain at Lakeland Community College for program time only. Students return to home schools for academics.

Related Occupations:

CNC Set up & Machine Operators
CNC Programmers
Quality Control Inspectors
Manufacturing Technicians
Entry Level CNC & Manual Machinist

Location: Lakeland Community College

Teacher: Matt Kulbis

E-mail: kulbis@mentorschools.org

Phone No.: 440.974.5336

Junior Year: 7:30 a.m. – 10:00 a.m. **Senior Year:** 11:30 a.m. – 2:00 p.m.

HS Credits: 3/year

Students who have successfully completed the program and met the requirements for college credit can earn up to:

18 COLLEGE CREDITS

WELDING

EUCLID HIGH PROGRAM LOCATED AT LINCOLN ELECTRIC



PROGRAM OUTCOMES:

Successful completion of the program will provide the student with:

KNOWLEDGE and SKILLS

- Welding, SMAW, GMAW, GTAW, FCAW and OFC, PAC, Robtics
- Cutting Operation—Oxyfuel, plasma and carbon arc
- Pipe welding—AMSE, API and AWS
- Welding quality control and destructive and nondestructive testing
- Blueprint reading and interpretation of drawing symbols
- Safety and housekeeping
- Fabrication
- Basic math, measuring, calipers and micrometer
- Community Service Project

POSSIBLE CERTIFICATIONS:

CareerSafe OSHA (10 hour)

American Welding Society D1.1 SMAW

American Welding Society D1.1 GMAW

American Welding Society D1.1 GTAW

American Welding Society D1.2 GTAW

American Welding Society D1.6 GTAW

American Welding Society D1.1 FCAW

American Welding Society D17.1 Aero Space

ASME Section IX 6" 6G Pipe

ASME Section IX 2" 6G Pipe

API 1104 6" 6G Pipe

OTHER PROGRAM INFO:

Student Organization: SkillsUSA

Program Fees:

Check our website for the current program fees.

Suggested Preparation: basic math skills and

understanding measurements



Junior Year:

Basic processes, theory, application and hands-on work pertaining to items listed under "Knowledge and Skills" Begin earning certifications

Senior Year:

Mastery of junior year skills Career readiness pertaining to "Related Occupations" Community Service Project (Capstone)

Academic Day:

Students remain at Lincoln Electric for program time only. Students return to home schools for academics.



Related Occupations:

Manufacturing Pipeline
Robotics Custom Fabrication
Motorsports (motorcycles & cars)
Skills Trade Sales Associate
Welding Engineer (machine & equipment)
Mechanical Engineer Electrical Engineer

Location: Lincoln Electric Teacher: Ryan Eubank

E-mail: reubank@euclidschools.org

Phone No. 216.797.7834

Junior Year: 7:30 a.m. – 10:00 a.m. **Senior Year:** 10:45 a.m. – 1:17 p.m.

HS Credits: 3/year

Students who have successfully completed the program and met the requirements for college credit can earn up to:

10 COLLEGE CREDITS

MARKETING & BUSINESS ADMINISTRATION (MBA)

PROGRAM OUTCOMES:

Successful completion of the program will provide the student with:

KNOWLEDGE and SKILLS

- Management and leadership
- Entrepreneurship
- Marketing and communications
- Advertising/public relations
- Money and personal finance
- Accounting
- Sports marketing/management
- Information technology
- Employability and career development

POSSIBLE CERTIFICATIONS:

Certified eMarketer, National Retail Federation, Sales and Marketing Executives International Microsoft Office Specialist (Word, Excel, Power Point)



OTHER PROGRAM INFO:

Student Organization:

DECA (International Association of Marketing Students)

Program Fees:

Check our website for the current program fees.

Suggested Preparation:

Introductory business and computer science electives

Junior Year:

Information technology
Business ownership
Sports and entertainment marketing
International business
Accounting
Management and leadership



Senior Year:

Employability and career development Marketing/professional personal selling Entrepreneurship Advertising and promotion Distribution and channel management Co-op experience/Capstone experience

Academic Day:

Students may choose to remain at Mentor High School for program and required academics or return to home school for required academics. Senior students will participate in program-related co-op experience.

Related Occupations:

Advertising Managers
Market Research Analyst
General Operations Managers
Sales, Accounting or Merchandising Managers
Public Relations Specialist

Location: Mentor High School

Teacher: Lauren Tousignant (junior year) **E-mail:** tousignant@mentorschools.org

Phone No.: 440.974.5288

Teacher: Drew McKnight (senior year) **E-mail:** mcknightd@mentorschools.org

Phone No.: 440.974.5288

Junior Year: 9:13—10:01 a.m. (Section 1) <u>or</u>

10:06—10:54 a.m. (Section 2)

Senior Year: 7:22—8:10 a.m. (Section 1) plus

co-op experience or

8:15—9:08 a.m. (Section 2) plus

co-op experience

HS Credits: 1 junior year, 4 senior year

Students who have successfully completed the program and met the requirements for college credit can earn up to:

12 COLLEGE CREDITS

AUTO SERVICE TECHNOLOGY

PROGRAM OUTCOMES:

Successful completion of the program will provide the student with:

KNOWLEDGE and SKILLS

- Shop safety
- Hand and power tools
- Computers and testers
- Information systems & AllData use
- Vehicle maintenance
- Braking, steering and suspension systems
- Cooling and lubrication systems
- Exhaust systems
- Electrical/electronic systems
- Engine and drivability diagnosis
- Axles and drive trains
- Customer service
- Shop equipment

POSSIBLE CERTIFICATIONS:

CareerSafe OSHA (10 hour)
Automotive Service Excellence (ASE/NATEF)
Safety Pollution & Prevention (SP2)

OTHER PROGRAM INFO:

Student Organization: SkillsUSA

Program Fees:

Check our website for the current program fees.

Suggested Preparation:

Industrial technology electives; good attendance and discipline record; desire to work on cars

Junior Year:

Understanding the automotive industry
Theory, application and hands-on work pertaining to the items listed in "Knowledge and Skills"

Automotive academic work Automotive laboratory work



Senior Year:

Mastery of junior level skills with more in-depth application of the items listed in "Knowledge and Skills"

Customer service work

HVAC systems

Front-end alignment

Diagnosis and troubleshooting

Capstone experience



Academic Day:

Students remain at Euclid High School for program time only. Students return to home schools for academics

Related Occupations:

Auto Technician or Specialist Power Sport Technician Diesel Technician

Aircraft Technician

Farm Equipment Technician Industrial Machine Mechanic Mechanic and Repair Helpers

Location: Euclid High School **Teacher:** Anthony Rozman

E-mail: arozman@euclidschools.org

Phone No.: 216.797.7841

Junior Year: 7:30 a.m. – 10:00 a.m. **Senior Year:** 10:45 a.m. – 1:17 p.m.

HS Credits: 3/year

Students who have successfully completed the program and met the requirements for college credit can earn up to:

10 COLLEGE CREDITS

PROGRAMS OFFERED AT AUBURN CAREER CENTER



SPECIAL NOTE:

The Auburn Career Tech Programs are available to Lake Shore Compact students **only if there is availability**. Students within the Auburn Career Center school system will have first priority. An application is necessary for consideration into any of the following programs. For more information, please contact Lucy Ott – 440.974.2273.

Auto Collision Repair (ACR)

Students will be trained on assessing damages for collision repairs, techniques for painting vehicles, fabricating and assembly of parts. Skills will include replacing damaged parts using modern welding, sanding, masking and painting procedures. This is a high demand, high wage industry. Students who successfully complete the program can earn the I-CAR certifications.

Location: Auburn Career Center

Teacher: Justin Bruno

E-mail: jbruno@auburncc.org
Phone No.: 440-357-7542 ext. 8234
Junior Year: 8:18 a.m. – 10:53 a.m.
Senior Year: 10:58 a.m. – 2:28 p.m.

Cosmetology (COS)

Perform a wide range of hair services, skin care, and nail treatments. Operate and manage a full-service interactive salon, while gaining valuable industry experience and employability skills. Work side by side with industry professionals to help prepare you for State Board exams. There is a 120-hour Internship requirement in this program. *College Credits: 3*

Location:Auburn Career CenterTeacher:Brandi Holland, COSAE-mail:bholland@auburncc.orgPhone No.:440-357-7542 ext. 8217Teacher:Justine Malvicino

 Email:
 jmalvicino@auburncc.org

 Phone No.:
 440-357-7542 ext. 8215

 Junior Year:
 8:18 a.m. – 10:53 a.m.

 Senior Year:
 10:58 a.m. – 2:28 p.m.

Electrical Engineering Prep (EEP)

Students will design and maintain advanced electronic components using modern technology. They will apply principals of residential, commercial and industrial wiring and electrical systems. *College Credits:* 5

Location: Auburn Career Center

Teacher: Mark Todd

 E-mail:
 mtodd@auburncc.org

 Phone No.:
 440-357-7542 ext. 8383

 Junior Year:
 8:18 a.m. – 10:53 a.m.

 Senior Year:
 10:58 a.m. – 2:28 p.m.

Heating, Ventilation and Air Conditioning (HVAC)

Students design, fabricate, install and maintain heating and air conditioning systems. They will learn to troubleshoot commercial and residential systems using advanced tools and diagnostic equipment. *College Credits:* 5

Location: Auburn Career Center

Teacher: Wayne Reed

 E-mail:
 wreed@auburncc.org

 Phone No.:
 440-357-7542 ext. 8389

 Junior Year:
 8:18 a.m. – 10:53 a.m.

 Senior Year:
 10:58 a.m. – 2:28 p.m.

Plant/Turf & Landscape Management (PTL)

Students install and manage residential and commercial landscape designs at real job sites and learn how to operate and maintain professional landscape equipment. *College Credits: 7-8*

Location: Auburn Career Center

 Teacher:
 David Richards

 E-mail:
 drichards@auburncc.org

 Phone No.:
 440-357-7542 ext. 8362

 Sunior Year:
 8:18 a.m. – 10:53 a.m.

 Senior Year:
 10:58 a.m. – 2:28 p.m.

Career Based Intervention

Career Based Intervention is designed to help students improve academic competence, graduate from high school, develop employability skills, implement a career plan and participate in a career pathway in preparation for postsecondary education and/or career. The CBI program provides a combination of educational and work-based learning opportunities for student success. The CBI program is only open to Mentor High School students. Applications will be posted by April 1, 2018.

Location: Mentor High School
Teacher: Deana Maltby

E-mail: maltby@mentorschools.org

Phone No.: 440-974-5437 **Class Time:** 7:22-10:01

HS Credits: CBI Related – 1 credit

CBI Lab – 3 credits

(Students will participate in work-based learning in the afternoon.)

Microsoft Office Specialist

This senior-only program is designed to provide students with an opportunity to earn in-demand industry credentials prior to graduation. Successful completers of this program will earn credentials in four Microsoft Office applications: Word, PowerPoint, and Outlook. Students earning these credentials will also earn 10 college credits from Cuyahoga Community College. Additionally, the Ohio Department of Education has identified the attainment of industry credentials as a path to graduation. Students who successfully earn the credentials offered in this course, and pass the ACT WorkKeys with a minimum score of 13, will meet the testing requirement for earning a high school diploma.

Locations: Mentor HS/Euclid HS
Teachers: Brad Finlayson – EHS
Kevin Megyes - MHS

E-mail: bfinlayson@euclidschools.org

megyes@mentorschools.org

Diploma:

Microsoft- Earn 12 credential credits
WorkKeys- Earn a minimum score of 13

What are the advantages of a Career Technical Education?

For Students:

- The opportunity to obtain college credit for courses completed in high school
- A strong core of academics from which to move into a variety of career areas
- Cutting-edge technical expertise
- Exposure to high-paying careers
- Opportunities to visit worksites, participate in internships and experience real world learning applications

For Parents

- Reduced tuition costs and other expenses when students earn tuition-free college credits while still in high school
- More motivated students with a focus on their future

For Employers

- Better educated workers who are prepared to grow and develop on the job
- Greater numbers of skilled workers
- Reduced employer training costs
- Employees who know how to apply knowledge and skills to solve work-related problems
- A world-class workforce able to outwork, out produce and outsmart the global competition

A bright future requires thoughtful and informative planning. High-skill, high-paying and high-demand jobs can be yours with Career Technical Education training. This information packet is designed to explain the many career pathway options available to students as they plan their course selection for the eleventh and twelfth grades. The following pages offer a planning tool for parents and students as well career technical programming materials.

Dates to Remember

NOVEMBER

Program Presentations at Home Schools (during the day)

Euclid - November 1 & 2 Wickliffe - November 3 Mentor - November 6 & 7

CTE Student Ambassadors at Home School Lunches
November 8-10, 2017

CTE Teacher Follow-Up Visits at Home Schools

November 13-17, 2017 (Students will be called with a pass.)

Auburn Career Center Expo November 30, 2017 - 6:30-8:00 p.m.

DECEMBER CTE Expo at Euclid High School

Explore All 17 Programs

December 5, 2017 from 6:00 -7:30 p.m.

Explore 4 Programs Located at Mentor High School December 12, 2017 from 6:00-7:00 p.m.

Explore 5 Programs Located at Lakeland Community College December 19, 2017 from 6:00-7:30 p.m.

Priority Status Application Deadline
December 22, 2017

JANUARY

Interview with 1st and 2nd Choice Programs
January 24-26, 2018
(Students will be sent a hall pass during
school hours to report for their interview.)

LATE FEBRUARY

Students receive notification of "Acceptance" or "Waitlist".

If you were absent on any of these dates or would like additional information, please contact Lucy Ott at 440-974-2273.



6477 Center Street Mentor, OH 44060 Phone: 440.974.5328



Find Us: www.LakeShoreCompact.org





High School Career Tech Offices

Euclid High School
Dionna Walling, Coordinator
711 East 222nd Street
Euclid, OH 44123
216.797.7834
dwalling@euclidschools.org

Mentor High School Jason Crowe, Director 6477 Center Street Mentor, OH 44060 440.974.5328 crowe@mentorschools.org

Wickliffe High School Leah Porcello, Coordinator 2221 Rockefeller Road Wickliffe, Ohio 44092 Phone: 440.943.6900

