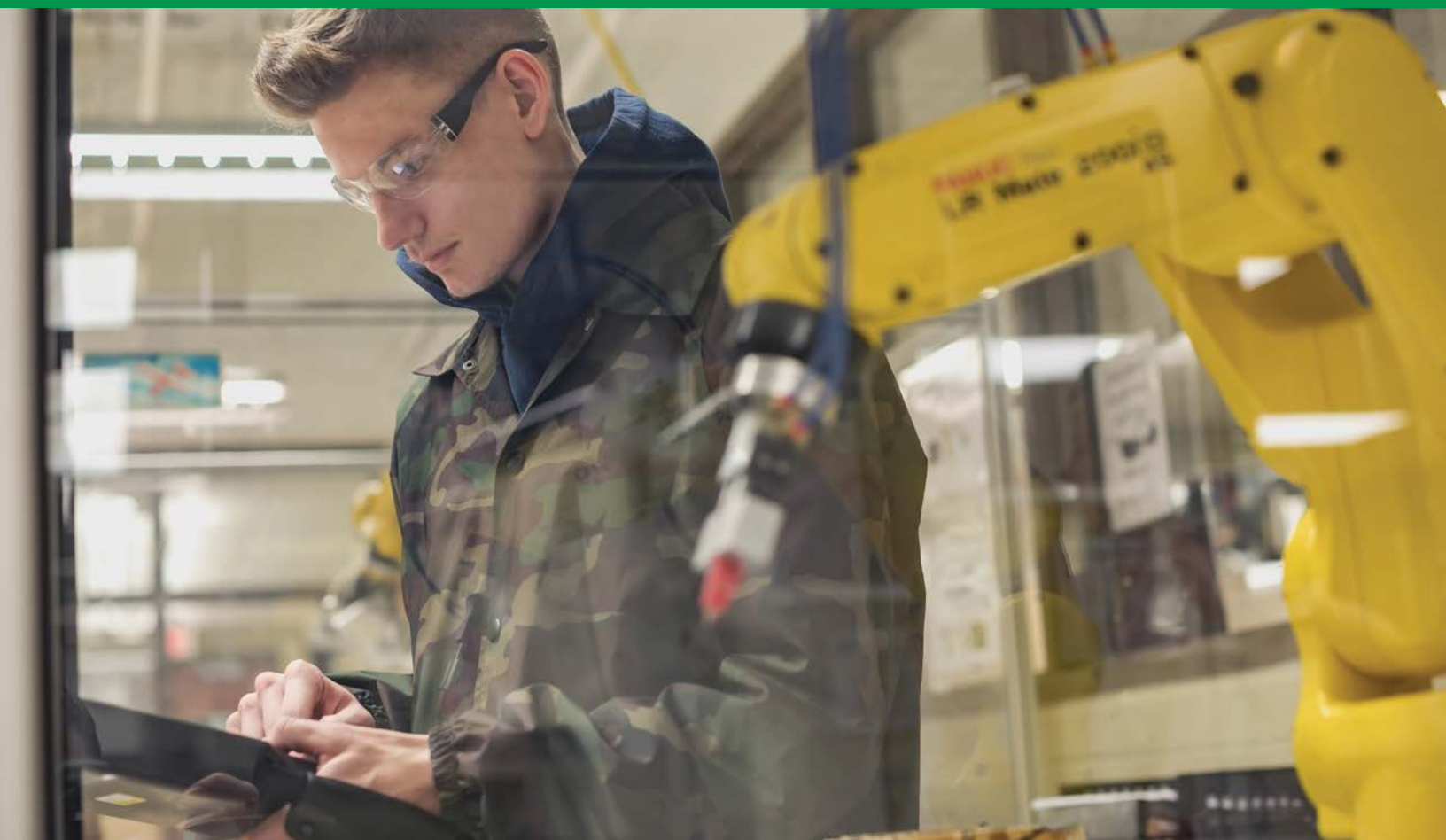


OaklandSchools

TECHNICAL CAMPUSES

CAREER OPPORTUNITIES
2021-2022 SCHOOL YEAR
OSTCONLINE.COM



CONTENTS

INTRODUCTION

| | |
|-----------------------------|---|
| Letter from the Deans | 1 |
| About OSTC | 2 |
| About This Magazine | 3 |

COURSE OFFERINGS

| | |
|--|----|
| Agriscience and Environmental Technologies | 4 |
| Automotive Technology | 5 |
| Collision Repair and Refinishing | 6 |
| Computer Programming | 7 |
| Construction Technology | 8 |
| Cosmetology | 9 |
| Criminal Justice | 10 |
| Culinary Arts/Hospitality | 11 |
| Cybersecurity Networking | 12 |
| Energy-Electrical Technologies | 13 |
| Engineering, Robotics and Mechatronics | 14 |
| Entrepreneurship and Advanced Marketing | 15 |
| Graphic and Communication Design | 16 |
| Health Sciences | 17 |
| Machining | 18 |
| Medium/Heavy Truck and Equipment | 19 |
| Welding | 20 |

ADDITIONAL OPPORTUNITIES AND MORE

| | |
|---|----|
| Oakland Technical Early College | 21 |
| Testimonials | 22 |
| Work Based Learning | 24 |
| Student Organizations | 26 |
| Career Technical Education By The Numbers | 27 |
| Michigan's 50 Hot Jobs Through 2028 | 28 |

LETTER FROM THE DEANS

TODAY, YOUR EDUCATION. TOMORROW, THE WORLD!

As you look ahead to high school graduation, you've got some big decisions to make about what comes next. No matter what's on your horizon, OSTC will get you there!

This magazine is your passport to the exciting world of OSTC, where purposeful learning is centered on you. Here, you'll get to explore your direction, experience amazing opportunities and prepare to excel in the real world – whether you're heading to college, starting your career or pursuing additional training.

We've got it all: high school and college credit, national industry certifications, personalized instruction, awesome teachers, paid internships, student leadership opportunities, scholarships and more!

Our convenient block schedule and free transportation make it easy to fit OSTC into your life. And because we partner with your high school, all our programs are tuition free!

AT OSTC, YOU WILL:

- Meet Michigan high school graduation requirements! Gain a competitive advantage by acquiring both technical skills and required academic credits.
- Get connected! Meet students who have similar goals, interests and talents in a friendly environment.
- Learn from industry experts! Connect with experienced and qualified instructors to acquire technical and academic skills for high-demand careers.
- Fund your future! Use your career tech experience to earn an above average wage, pay for advanced training and earn money for college.

You can do it – and we can help. Take a look at our exciting courses and get ready to enhance your education at OSTC. We look forward to seeing you on campus!

Sincerely,

Tammy Brown-Williams, Interim Dean, OSTC-NW

Paul Galbenski, Dean, OSTC-NE

Amy Gole, Dean, OSTC-SE

Martin Kaye, Dean, OSTC-SW



Clockwise from left: Oakland Schools Technical Campus Deans
Tammy Brown-Williams, Paul Galbenski, Amy Gole and Martin Kaye

ABOUT OSTC

The Oakland Schools Technical Campuses provide career technical education to high school students from Oakland County's 28 public school districts, public academies, private learning institutions and home schools.

Enrolled students spend part of their day studying at their home district and the other part actively involved in one of several career programs.

At the OSTCs, we prepare students for careers, not just jobs. Interested in becoming a nurse? We will teach you the medical terminology you need to know to pass your certification exams. Seeking a career as an engineer? Build a robot as a member of our

award-winning Oakland County Competitive Robotics Association teams. Planning to own a custom auto paint shop? Learn from our collision repair and refinishing faculty while you practice your skills in our multi-million-dollar paint booths.

Experience the real world through internships, apprenticeships and job shadows, students will learn what it is like to work in their chosen fields—before spending thousands of dollars to figure it out in college.

The OSTCs are preparing students for the real world through career exploration, hands-on experiences and opportunities to excel through industry competitions and student leadership programs.



ABOUT THIS MAGAZINE

The next section of this document organizes each course offering in a consistent format to give the reader a reasonable expectation of what they will learn in particular course as well the potential career opportunities available.

COURSE TITLE

What the program is referred to at OSTC.

WHAT YOU'LL LEARN

Insights into specific lessons and activities for the courses. OSTC values hands-on learning, and students are encouraged to participate in events, apprenticeships and internships to gain on-the-job experience to better prepare them for their future.

LICENSES/CERTIFICATES AVAILABLE

OSTC courses can award students licenses and certificates that let potential employers know that they are hiring a qualified candidate.

PROSPECTIVE SALARY

This is an estimate of what graduating students can expect to earn if they become employed in their field. These estimates are provided by Oakland County.

CAMPUS AVAILABILITY

OSTC is committed to having an option for every student at every campus, however some programs are only offered at certain campuses due to factors such as enrollment or demand. Students are able to attend a campus not normally serving their district, but they must maintain their own travel accommodations.

OAKLAND TECHNICAL EARLY COLLEGE OPTION

Some courses allow students the opportunity to participate in the Oakland Technical Early College, giving them a head-start on continuing their education to obtain an associate's degree with an extra year of high-school. More information on OaklandTEC can be found on page 21.

CONTACTS

If a prospective student is interested in a course, their first step would be getting in touch with a campus counselor near them.



AGRISCIENCE AND ENVIRONMENTAL TECHNOLOGIES



WHAT YOU'LL LEARN

Students will work alongside professionals while conducting dynamic hands-on activities. Students perform experiments in animal, plant and environmental sciences and use advanced technology to develop ethical and viable solutions for real-world problems. The curriculum includes: fisheries and wildlife, forestry, greenhouse management, floral design, hydroponics, organic gardening, landscape design, veterinary assisting, animal care, environmental science and aquaculture.

LICENSES/CERTIFICATES AVAILABLE

- CASE - Curriculum, for Agricultural Science Education
- iCEV
- Animal Care Technologies
- Davey Tree - Practical Tree Care
- Certified Green Industry Professional.

PROSPECTIVE SALARY,
METRO DETROIT AREA

\$29,000-\$66,000

CAMPUS AVAILABILITY

NE NW SE SW

CASE
Curriculum for Agricultural
Science Education

iCEV

CONTACTS

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248.668.5608

anne.george@oakland.k12.mi.us
amy.flynn@oakland.k12.mi.us

AUTOMOTIVE TECHNOLOGY



WHAT YOU'LL LEARN

Students have the opportunity to gain skills through intensive hands-on and quality instruction, while working alongside master ASE (Automotive Service Excellence) technicians in a full-service, interactive automotive lab designed to simulate current industry standards. Students will gain core and fundamental skills through advanced diagnosis and repair strategies in safety, customer service, engine repair, automatic trans/transaxle, manual drivetrain and axles, suspension and steering, brakes, electrical/electronic systems, heating and air-conditioning, engine performance, diesel engine theory, and work ethic.

The Maintenance Light Repair (MLR) track is a 2 year program that provides students with a fundamental skill set, preparation for a post-secondary program, a concentration on gaining entry-level certifications, and or entry-level internship opportunities. The Master Automotive Service Technology (MAST) track is an Advanced 2 ½ year program that provides students with a post-secondary curriculum, a concentration on gaining professional certifications, paid career and internship opportunities, industry sponsorship, and up to one year of college credits toward a 2-year degree. The MAST curriculum is currently only offered at the NE Campus.

LICENSES/CERTIFICATES AVAILABLE

- National Automotive Technicians Education Foundation (NATEF) certification
- Automotive Service Excellence (ASE) certification

PROSPECTIVE SALARY,
METRO DETROIT AREA

\$22,000-\$72,000

CAMPUS AVAILABILITY

NE NW SE SW



National Institute for
**AUTOMOTIVE
SERVICE
EXCELLENCE**

CONTACTS

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COLLISION REPAIR AND REFINISHING



WHAT YOU'LL LEARN

This program prepares students to repair, restore, and refinish vehicles to showroom condition - using the same advanced painting, welding and repair equipment used by automotive professionals. Students also get a chance to create custom modifications using artistic design techniques.

LICENSES/CERTIFICATES AVAILABLE

- National Automotive Technicians Education Foundation (NATEF) certification
- Automotive Service Excellence (ASE) certification
- Automotive Lift Institute (ALI)
- S/P2 Safety Training
- State of Michigan



PROSPECTIVE SALARY,
METRO DETROIT AREA

\$29,000-\$94,000

CAMPUS AVAILABILITY

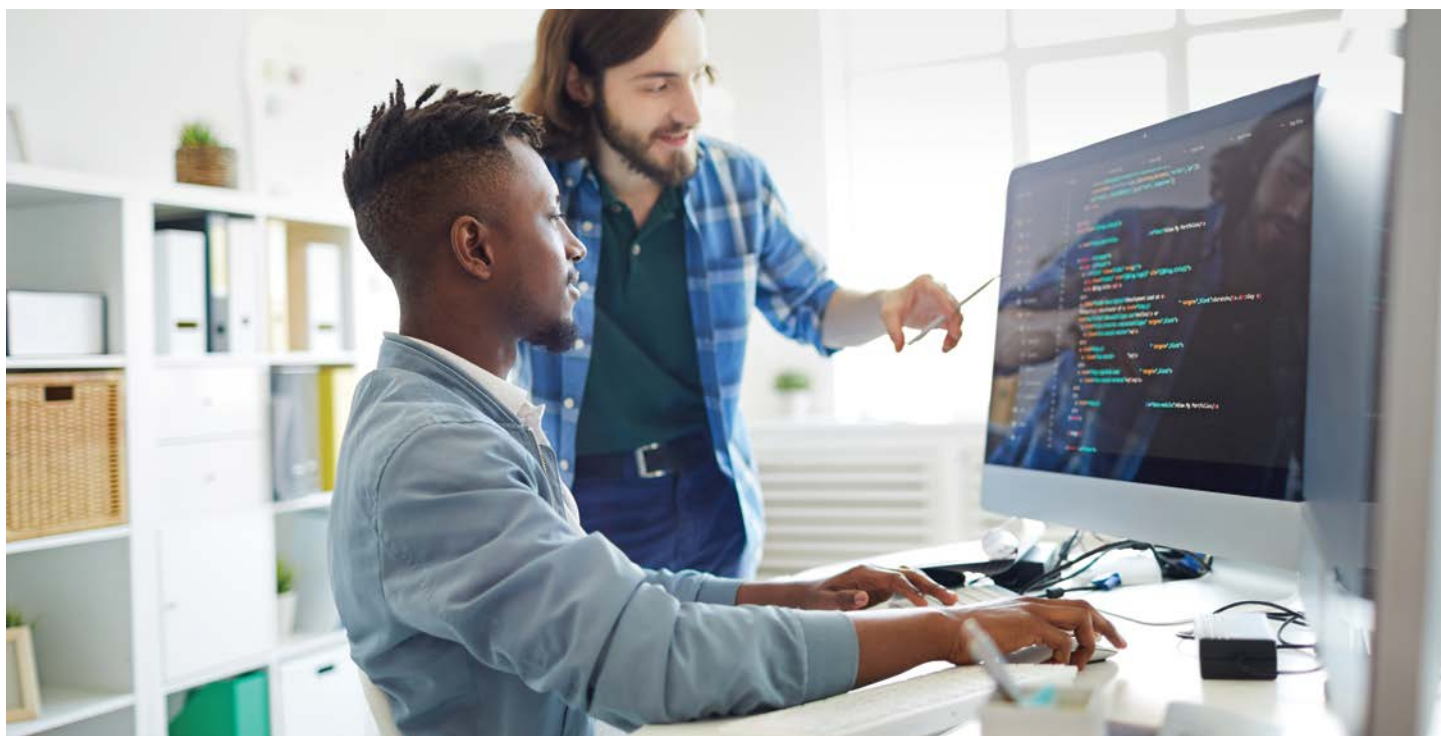
NE NW SE SW

This program allows the student the opportunity to apply for the tuition-free Oakland Technical Early College option.

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COMPUTER PROGRAMMING



WHAT YOU'LL LEARN

Students will experience information technology topics in web development, application development and computer programming. They will learn to write code to power game design, business application development and explore programming with robotics. Students will program in advanced languages such as Java and HTML5.

LICENSES/CERTIFICATES AVAILABLE

- Certified Internet Webmaster (CIW)
- Oracle - Java Foundations
- Microsoft Technology Associate (MTA)



PROSPECTIVE SALARY,
METRO DETROIT AREA

\$54,000-\$129,000

CAMPUS AVAILABILITY

NE NW SE SW

This program allows the student the opportunity to apply for the tuition-free Oakland Technical Early College option.

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CONSTRUCTION TECHNOLOGY



WHAT YOU'LL LEARN

Students will gain skills to work in all areas of the construction field, including carpentry; interior/exterior finishing; electrical; plumbing; masonry; heating, ventilation, air conditioning and refrigeration (HVAC/R); and home repair, building and grounds maintenance.

Students will build and maintain residential and commercial construction projects, operate power tools and heavy equipment for demolition and construction, and read blueprints for rough and finished carpentry, masonry, electrical and plumbing. This program of study will also prepare students who are interested in entering a post-secondary program in construction management. Students can earn Level 1, 2 or 3 in the JATC certification. This certification is recognized by all United Brotherhood of Carpenters (UBC) throughout the country.

LICENSES/CERTIFICATES AVAILABLE

- Joint Apprenticeship Training Committee (JATC)
- OSHA-10 Safety Certification
- OSHA-30 Safety Certification



CONTACTS

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|--|--------------|---------------------------------|
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PROSPECTIVE SALARY,
METRO DETROIT AREA

\$65,000-\$167,000

CAMPUS AVAILABILITY

NE NW SE SW

COSMETOLOGY



WHAT YOU'LL LEARN

Students will work alongside professionals in a full-service, interactive salon and spa using advanced salon techniques to provide hair, nail and skincare services; and to create artistic designs using the latest technology, trends and brand name products. Core skills include entrepreneurship, salon ecology, safety and electricity, general anatomy and chemistry.

Technical skills include hair care and treatments, esthetics, nail technology, hair cutting and hair coloring. This course uses an advanced integrated curriculum in academics, technical and workplace skills. Successful completion of the Cosmetology program allows the student to apply for State licensing exams (which requires post-secondary attendance).

LICENSES/CERTIFICATES AVAILABLE

- State of Michigan Cosmetologist License
- Customer Service and Sales National Certification

COSMETOLOGY SCHEDULE

| Session | Session Hours | Daily Hours | Notes |
|--------------------------------------|---------------|-------------|---|
| Summer 1 | 112 | 7 | Students attend between Sophomore and Junior Year |
| Junior Year | 457.5 | 2.5 | AM or PM Sessions |
| Summer 2 | 112 | 7 | Students attend between Junior and Senior Year |
| Senior Year | 457.5 | 2.5 | PM Session |
| Senior Year (Extended Day) | 432.5 | 2.5 | 2nd Year Cosmetology Students Only |
| Total Hours Available: 1571.5 | | | |

Attendance at all of the above listed sessions are required in order to complete the 1500 hour State of Michigan Cosmetology requirement to then be eligible for the Cosmetology State of Michigan Licensing Exam. The Licensing Exam includes both a Practical Exam and Theory Exam. A student must pass both exams in order to earn a State of Michigan Cosmetology License.

Cosmetology is a regional program for students throughout the entire county. Students may be required to provide their own transportation to the NE Campus for both Summer 1 and Summer 2 sessions along with their junior and senior year in order to participate in the Cosmetology program.

PROSPECTIVE SALARY,
METRO DETROIT AREA

\$25,000-\$51,000

CAMPUS AVAILABILITY

NE NW SE SW



CONTACT

Randy Maddock, Counselor, Northeast Campus 248.451.2710 randy.maddock@oakland.k12.mi.us

CRIMINAL JUSTICE



WHAT YOU'LL LEARN

Students will develop an understanding of the criminal justice system by exploring the three components of the system: law enforcement, courts and corrections. During the program, students are exposed to in-demand technical and foundational skills such as ethical responsibility, situational awareness, report writing and field note-taking, courtroom testimony, crime scene management, criminal law and investigation, health and safety, and trends affecting the corrections system.

Students are required to participate in physical fitness each week to prepare for the post-secondary MCOLES certification. Additionally, physical fitness provides students with an opportunity to build intellectual strength. Students develop their own career portfolios throughout the year.

LICENSES/CERTIFICATES AVAILABLE

- Adult and Pediatric CPR/AED/First Aid
- Naxalon (narcan) Administration
- Bloodborne Pathogen Safety



PROSPECTIVE SALARY,
METRO DETROIT AREA

\$40,000-\$81,000

CAMPUS AVAILABILITY

NE NW SE SW

CONTACTS

Angela Haley, Counselor, Southeast Campus

248.288.4020

angela.haley@oakland.k12.mi.us

CULINARY ARTS/HOSPITALITY



WHAT YOU'LL LEARN

Students cook alongside professional chefs to create amazing gourmet cuisine using a broad background of skills and knowledge. Students utilize industry-based tools, equipment and technology and are trained in business procedures. Students' teams operate a restaurant and provide catering services, crafting and presenting delicious gourmet creations while preparing for competitions and events.

Students become proficient in the use of point-of-sale systems and communicating with guests. Training is provided in cooking, menu design, staffing and scheduling, food preparation and financial management, as well as fundamentals of the travel, tourism, and hospitality industries.

LICENSES/CERTIFICATES AVAILABLE

- ServSafe Food Handler
- ServSafe Manager
- ServSafe Allergens



PROSPECTIVE SALARY,
METRO DETROIT AREA

\$35,000-\$82,000

CAMPUS AVAILABILITY

NE NW SE SW

CONTACTS

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CYBERSECURITY NETWORKING



WHAT YOU'LL LEARN

Students are introduced to basic security principles involving networks and operating systems, including the current threats, vulnerabilities, and policies of electronic commerce. They gain an understanding of the principles of risk management, security architectures, incident handling disaster recovery and secure systems administration.

LICENSES/CERTIFICATES AVAILABLE

- MTA Security Fundamentals
- MTA Networking Fundamentals
- CompTIA Security+
- EC Council (Certified Ethical Hacker Associate and Computer Forensics Associate)



PROSPECTIVE SALARY,
METRO DETROIT AREA

\$36,000-\$103,000

CAMPUS AVAILABILITY

NE NW SE SW

This program allows the student the opportunity to apply for the tuition-free Oakland Technical Early College option.

CONTACTS

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ENERGY-ELECTRICAL TECHNOLOGIES



WHAT YOU'LL LEARN

Students will be exposed to career aspects related to the energy and electrical sector. Coursework will provide industry knowledge valuable in preparing to be a utility worker. Lab work will utilize hands-on and applied skills in residential and commercial electrical wiring. Students will further explore various forms of energy, including emerging ways to generate green energy.

LICENSES/CERTIFICATES AVAILABLE

- OSHA 10
- Energy Industry Fundamentals
- Red Cross CPR and First Aid

PROSPECTIVE SALARY,
METRO DETROIT AREA

\$37,000-\$106,000

CAMPUS AVAILABILITY

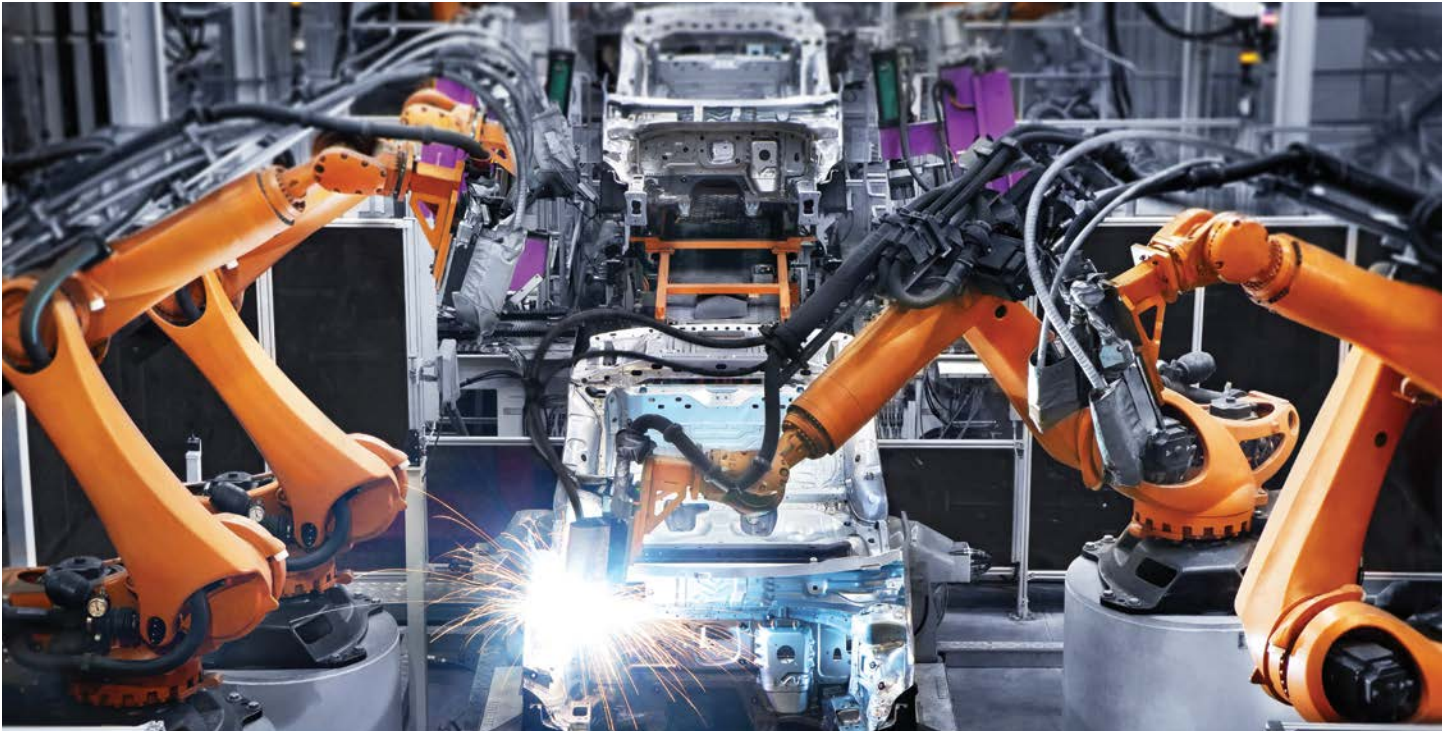
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ENGINEERING, ROBOTICS AND MECHATRONICS



WHAT YOU'LL LEARN

Students will learn high-tech engineering technologies to invent, revolutionize, build and creatively solve the needs and demands of a technologically advancing world. Students will design and build powerful robotic, hydraulic, pneumatic, electrical, electronic and mechanical systems and learn to creatively solve complex engineering and design challenges using advanced CAD/CAM and CNC technologies. The curriculum also includes core foundational skills for design processes, power, machines, quality insurance and fabrication.

LICENSES/CERTIFICATES AVAILABLE

- OSHA 10 General Industry (Manufacturing)
- International Society of Certified Electronics Technicians (ISCET) - DC Certification
- International Society of Certified Electronics Technicians (ISCET) - AC Certification
- Fanuc Robotics Certification
- Certified Solidworks Associate



PROSPECTIVE SALARY,
METRO DETROIT AREA

\$52,000-\$134,000

CAMPUS AVAILABILITY

NE NW SE SW

This program allows the student the opportunity to apply for the tuition-free Oakland Technical Early College option.

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ENTREPRENEURSHIP AND ADVANCED MARKETING



WHAT YOU'LL LEARN

No matter what you choose to do in life, it is essential to have strong business, leadership and marketing skills! In this program, designed for beginners to the advanced, students learn valuable leadership, entrepreneurship and marketing skills that will provide them with a successful foundation for any career, in addition to the knowledge necessary to manage and run their own business.

This program is packed with several engaging projects, virtual simulations, field trips, job shadows and guest speakers. Students can also earn national industry certifications and even an associate's degree for free!

LICENSES/CERTIFICATES AVAILABLE

- Microsoft Office Specialist (Word, PowerPoint, Excel, Access and Outlook),
- Entrepreneurship and Small Business
- Customer Service & Sales and Retail Management



PROSPECTIVE SALARY,
METRO DETROIT AREA

\$72,000-\$205,000

CAMPUS AVAILABILITY

NE NW SE SW

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GRAPHIC AND COMMUNICATION DESIGN



WHAT YOU'LL LEARN

Students will prepare for careers that communicate ideas and information to the public and include the areas of graphic communication, graphic design, interactive multimedia/animation and audio and video and film production skills and processes. Students will design and create dynamic brand identifications, products, animations and digital media, while creating a personal portfolio showcasing their ideas and talents.

Students will be introduced to a variety of digital media used in online advertising, social-media marketing and website implementation, including video production and post-production, animation and motion graphics. Additionally, this program provides training opportunities in screen-printing, press operations and bindery, page layout, digital photography and illustration, advertising design, and marketing presentations used in “real-world” projects.

LICENSES/CERTIFICATES AVAILABLE

- Adobe Illustrator
- Adobe InDesign
- Adobe Photoshop



| | | |
|---|--------------|--------------------------------|
| CONTACTS | | |
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PROSPECTIVE SALARY,
METRO DETROIT AREA

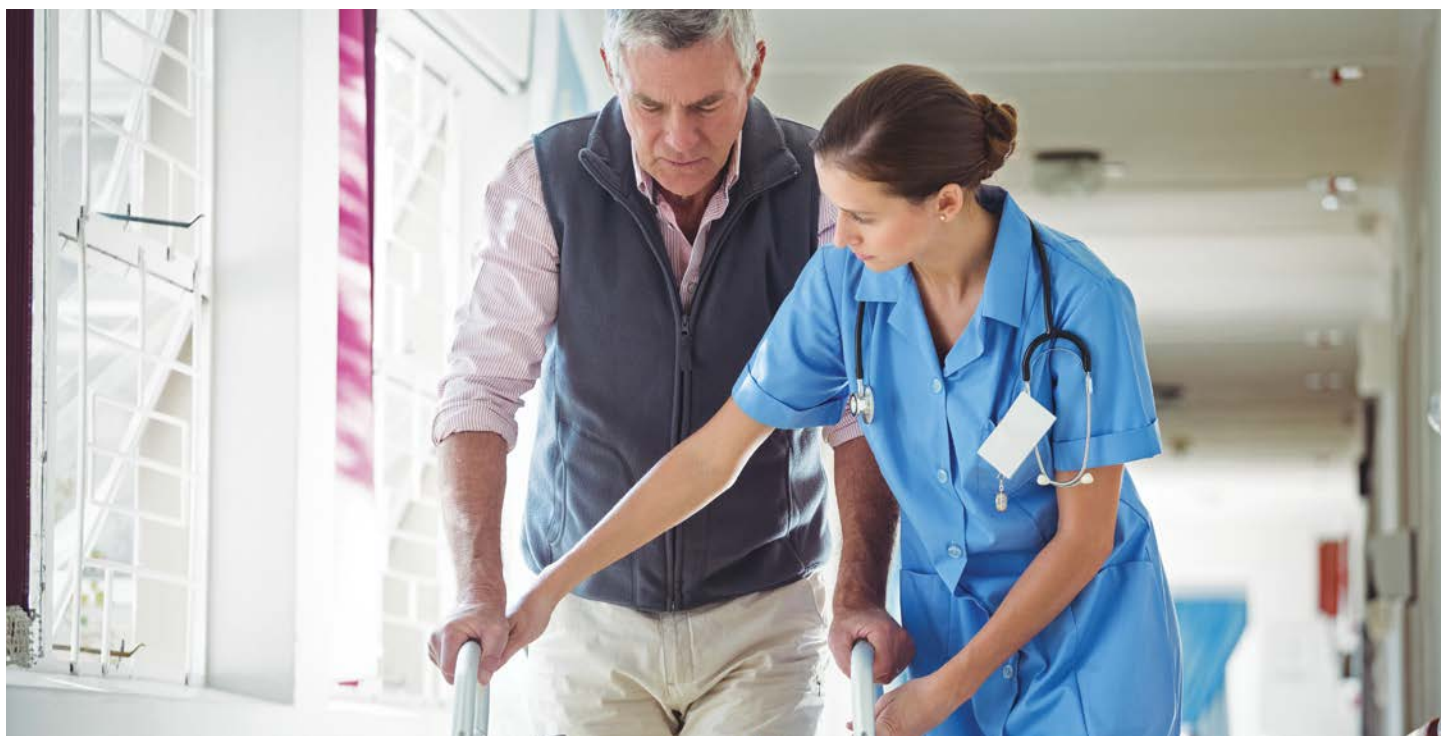
\$32,000-\$77,000

CAMPUS AVAILABILITY

NE NW SE SW

This program allows the student the opportunity to apply for the tuition-free Oakland Technical Early College option.

HEALTH SCIENCES



WHAT YOU'LL LEARN

Students will make a difference by providing quality care alongside experts in many different healthcare professions. They will apply the health care skills they master in class to a variety of clinical environments while developing a professional work ethic and the ability to provide compassionate patient care.

Students will learn the core and foundation skills (temperature, pulse, respirations, blood pressure, etc.) for health fields such as medical assisting, laboratory, medical office technology, dental assisting, nursing and pharmacy. Also, students will gain an understanding in all areas of the health core curriculum including: safety, anatomy and physiology, asepsis, ethics, medical terminology, pharmacology, illness prevention and office procedures.

Additional training opportunities are available in phlebotomist, EKG technician, sports safety, radiology aide, surgical technical aide, respiratory therapy aide, occupational therapist, physical therapist, dietary aide, and medical records and billing.

LICENSES/CERTIFICATES AVAILABLE

- Certified Nurse Aide (CNA)
- CPR and First Aid through the American Heart Association
- Patient Care Technician (PCT)

PROSPECTIVE SALARY,
METRO DETROIT AREA

\$37,000-\$98,000

CAMPUS AVAILABILITY

NE NW SE SW



American Heart Association.

CPR & First Aid

Emergency Cardiovascular Care

CONTACTS

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MACHINING



WHAT YOU'LL LEARN

Students will use advanced equipment and innovative techniques to create many technologically-advanced machined projects. Students will invent, design and build high-tech precision parts and tools that are used worldwide. Certified professionals will teach students how to program and operate industrial CNC machines to create products from engineering blueprints and specifications. The curriculum also includes core foundational skills for design processes, power, machines, quality insurance and fabrication.

LICENSES/CERTIFICATES AVAILABLE

- OSHA 10 General Industry (Manufacturing)
- National Institute for Metalworking Skills (NIMS) - Measurement, Materials & Safety
- National Institute for Metalworking Skills (NIMS) - Drill Press 1
- National Institute for Metalworking Skills (NIMS) - Milling 1
- HAAS - CNC Lathe Operator
- HAAS - CNC Lathe Programmer
- HAAS - CNC Mill Operator
- HAAS - CNC Programmer Mill



National Institute for Metalworking Skills®

PROSPECTIVE SALARY,
METRO DETROIT AREA

\$35,000-\$80,000

CAMPUS AVAILABILITY

NE NW SE SW

This program allows the student the opportunity to apply for the tuition-free Oakland Technical Early College option.

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MEDIUM/HEAVY TRUCK AND EQUIPMENT



WHAT YOU'LL LEARN

Students will become proficient with shop tools and equipment while maintaining and repairing semi-trucks, bulldozers, backhoe loaders, etc. The HETT (Heavy Equipment & Truck Technology) program is divided into units of study. Examples are: Shop Lab (Drilling, tapping, torch cutting, arc/mig welding, etc.), Engine Service (Trouble-shooting, diagnosis, cylinder head, overhaul, etc.), Electrical (Basic electricity, batteries, starters, charging, etc.) Hydraulic and Air Brakes. Students get the opportunity to operate equipment during the spring.

Students who complete this course can enjoy a career as a heavy equipment technician, medium/heavy truck technician, truck driver, heavy equipment operator (from landscape skid loaders to bulldozer), laborer (usually in the building trades), welder, forklift driver, service writers, foremen, supervisors, teachers, engineer technical support personnel and emergency vehicle repair.

LICENSES/CERTIFICATES AVAILABLE

- MIHDT: Electrical Systems, Brakes, Suspension and Steering Systems, Engine Repair Diesel, Engine Repair Gasoline, HDT Drivetrain, Commercial Driver's License
- Career Safe, OSHA 10 General Industry
- Customer Service and Sales 1
- Advanced Customer Service and Sales 2
- Autolift Institute
- ASE: Electrical/Electronic Systems, Inspection Maint, Steering & Suspensions, Brakes, Diesel Engines

PROSPECTIVE SALARY,
METRO DETROIT AREA

\$35,000-\$80,000

CAMPUS AVAILABILITY

NE NW SE SW



National Institute for
**AUTOMOTIVE
SERVICE
EXCELLENCE**

CONTACTS

Amy Flynn, Counselor, Southwest Campus

248.668.5608

amy.flynn@oakland.k12.mi.us

WELDING



WHAT YOU'LL LEARN

Students will learn to control fire, electricity and heat to design, dismantle and fabricate a wide range of products. Students will use advanced equipment and techniques to join, cut, bend, and manipulate metal as they develop the skill, confidence, work ethic and stamina necessary for a high-paying career anywhere in the world. The curriculum includes core foundational skills for design processes, power, machines, quality insurance and fabrication.

LICENSES/CERTIFICATES AVAILABLE

- OSHA - 10 General Industry (Manufacturing)
- American Welding Society – Certified Welder GMAW
- American Welding Society – Certified Welder GTAW
- American Welding Society – Certified Welder SMAW



American Welding Society

PROSPECTIVE SALARY,
METRO DETROIT AREA

\$28,000-\$62,000

CAMPUS AVAILABILITY

NE NW SE SW

This program allows the student the opportunity to apply for the tuition-free Oakland Technical Early College option.

CONTACTS

| | | |
|--|--------------|---------------------------------|
| Randy Maddock, Counselor, Northeast Campus | 248.451.2710 | randy.maddock@oakland.k12.mi.us |
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OAKLAND TECHNICAL EARLY COLLEGE



Oakland Technical Early College is a rigorous three-year program offering high school students an early start in post-secondary training to better prepare them for high-skill, high-demand and high-wage careers.

Oakland Schools Technical Campuses have partnered with Oakland Community College to combine early college opportunities with many of our career technical programs.

During the 11th and 12th grades, students take high school

requirements, an OSTC program and college courses that align with a technical degree. Students attend Oakland Community College full-time during an added 13th year, completing their high school diploma and potentially earning an associate degree.

The cost for college tuition and books are covered for participants in this program. Students and their families are responsible for transportation to Oakland Community College.

| OSTC Program | Degree Path Options | Degree Path Focus |
|---|--|---|
| Collision Repair and Refinishing | Associate in Applied Science (Technological Science) | Collision Paint & Refinish Tech Non-Structural Repair |
| Cybersecurity Networking (NE, SW, SE) or Computer Programming | Associate in Applied Science | Information Technology Software Engineering Cyber Security |
| Engineering, Robotics and Mechatronics | Associate in Applied Sciences | Mechatronics or Robotics |
| Engineering, Robotics and Mechatronics | Associate in Science | General Science and Math |
| Entrepreneurship and Advanced Marketing | Associate in Business Administration | Business Administration |
| Graphic and Communication Design | Associate in Applied Science | Graphic Design |
| Health Sciences - EMS (SW) | Associate in Applied Science | EMT & Paramedic |
| Machining | Associate in Applied Science | Machining |
| Welding | Associate in Tech Sciences (Technological Focus) | Welding |

CONTACTS

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Jennifer Kluesner, K-12 Career Readiness Consultant

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jennifer.kluesner@oakland.k12.mi.us

TESTIMONIALS

TRENDON HANKERSON, 2017 GRADUATE, CULINARY ARTS PROGRAM



If there was a motto written to describe the Hankerson Family, who reside in Novi, it would be: “The family that cooks together, stays together.”

In fact, Kevin and Tricia Hankerson describe cooking together as something the family really values, with Kevin doing most of the summer cooking and Tricia taking over the helm in the winter.

All the family time seems to have paid off because their youngest son, Trendon, is now a senior at Novi High School and about to graduate from Oakland Schools Technical Campus’ (OSTC) Culinary Arts program, ready to put his skills to the test in college and beyond.

“It just broadens your horizons,” said Trendon of attending OSTC. He said he learned more than just cooking skills from the program, as he was introduced to other important culinary skills such as proper cutlery, presentation of food and business dinner etiquette.

“Not only are students learning skills they can apply immediately, they are earning multiple certifications while learning life skills,” explained Kevin. “For example, my sons were taught fine dining skills as young men. I didn’t learn the proper business dining etiquette until I was a few years into my career. This campus is preparing students for life.”

Trendon enrolled in the Culinary Arts program after hearing about how amazing it was from his older brother, Kameron, who was a graduate of the program in 2016 and is now living away at the University of Wisconsin-Green Bay. His brother’s advice to attend OSTC did not disappoint. Trendon says he has fully embraced the program and knows what he is learning is very valuable.

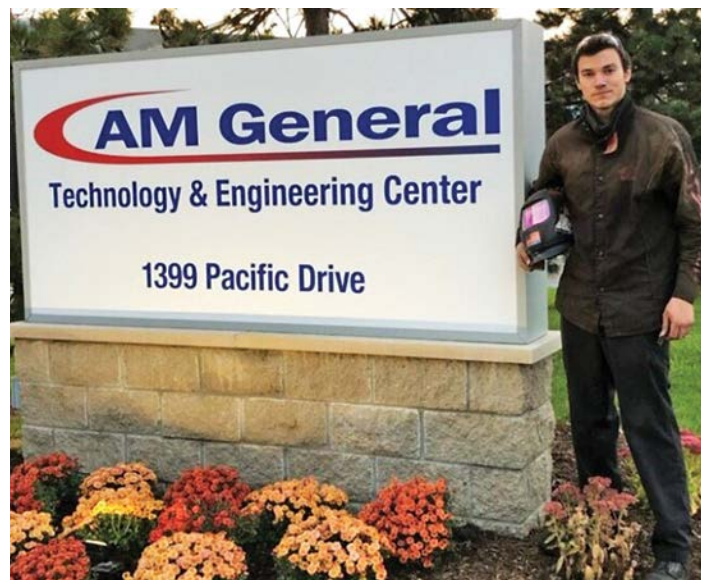
“I like being in the kitchen,” he said. “It’s very prideful when you can cook a meal and enjoy it.”

From Kevin and Tricia’s standpoint, they have enjoyed watching

both their sons grow from “young, teenage boys to collegiate, young men.”

“OSTC has allowed them to broaden and enhance their leadership and interpersonal skills and their educational learning. It gives them a great sense of pride and accomplishment to be able to work well in groups, just like they will in the real world,” said Tricia, adding, “As parents, we understand our children and how they learn best. OSTC has not only enhanced their leadership and communication skills, it has helped them find their own voice.”

NOAH CASTILLO, 2019 GRADUATE, WELDING PROGRAM



When Noah Castillo was a senior at Clarkston High School, he didn’t want his three years attending Oakland Schools Technical Campus (OSTC) learning the welding trade to go to waste.

Two years later, Castillo is enjoying his time as a lead welder working for AM General in Auburn Hills.

AM General builds more military light tactical vehicles than any other company in the world, including the Humvee. The company’s headquarters are in South Bend, Ind., but their Technology and Engineering Center is located in Auburn Hills.

“My experience at OSTC was great,” said Castillo, the son of Matthew and Bernadette Castillo who attended Andersonville Elementary. “I learned a lot while I was there (10th, 11th, and 12th grade) and met some of my now good buddies. My teacher, Steve Langdon, was great as well. His advice and skills helped me get to where I am now.”

“OSTC struck my interest because it taught me so much more about my trade and everything that revolves around it. Welding has always interested me, and I like being able to create and build what’s in my head because the possibilities are endless.”

Growing up with no brothers or sisters, Castillo said he leaned on a neighbor often for advice and support.

Learning a trade is something many high school seniors often consider, but don’t follow up on the opportunity. The vast majority of high school graduates attend college.

Once Castillo finished up at CHS, he completed Oakland

Community College's welding certificate program. During his senior year, Castillo participated in a paid internship at Boones Express, located in Lake Orion, through the OSTC school-to-career work-based learning program.

Since starting at AM General, Castillo has been an integral part of several essential works as the lead welder.

"My goals are to continue working at AM General for a long time and to further improve my skills as a welder and machinist," said Castillo. "Eventually, I would like to experience more with my career, but I'm very happy where I'm at right now."

"I completely agree not everyone needs to go to college for four years just for a degree. The trades are just as important, and opportunities are endless. On top of that, I came straight out of high school making great money. We need more people who aren't afraid of hard work and getting their hands dirty."

SARAH BASS, 2020 GRADUATE, AGRISCIENCE AND ENVIRONMENTAL TECHNOLOGIES PROGRAM



A couple days a week and on Sundays Sarah Bass arrives at her job at the Clinton River Water Resource Recovery Facility and treats the approximately 30 million gallons of storm water and sanitary sewage that flush daily through the facility, which services 14 local communities. She performs tests, maintenance and lab work to ensure operations are running smoothly.

However, unlike the rest of the employees at Clinton River water facility, Sarah Bass is still a high school student. A senior at Brandon High School, Bass received the opportunity to work at the Clinton River facility because she is also a second-year student studying Agricultural Science at Oakland Schools Technical Campus Northwest (OSTC).

"A Water Resources Commissioner plant manager came and talked to the students at our campus. They were calling down classes they thought would be relevant to the field, so mine was one of them," explained Bass. "I thought it was a good opportunity, so my teacher helped me apply."

Bass, who started the job in July 2019, said she was nervous initially, but she said the staff has been really welcoming to her. In fact, they have increased her hours and given her a raise. She started out making \$9.50 an hour and now makes \$15 an hour.

"Everyone here at this plant are wonderful people," said Bass.

Bass said what she learns at the plant directly correlates to her

Agricultural Science studies, which focus on environmental science. Moreover, she gets credit to earn certifications in her field of study.

"Class prepared me to be inside the water plant, because I had already done some of the water tests in the class," she explained.

Brian Welch, Bass's supervisor at the Clinton River plant, said Bass has been a great addition.

"Sarah has been wonderful to work with on this," said Welch. "She asks very well, thought-out questions, questions that the regular workers come in and ask, and she's actually taken great strides in wanting to learn more and more all the time."

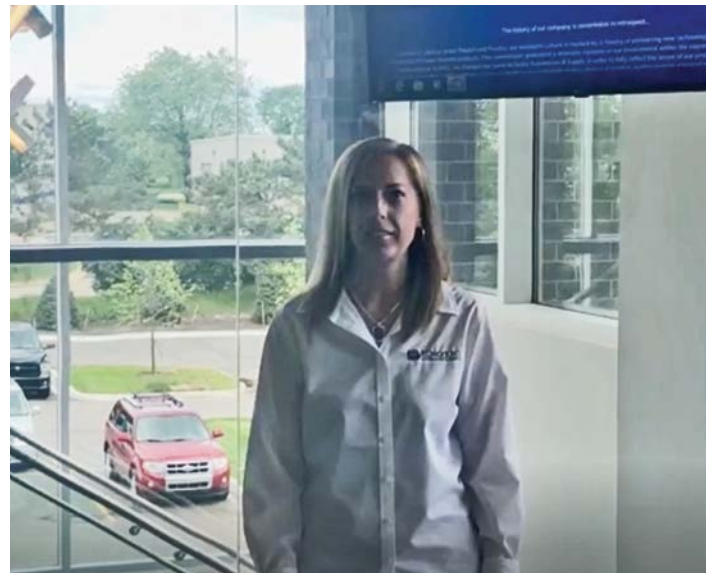
Welch said the Water Resources Commissioner (WRC) decided to reach out to the OSTC campuses to bring in high school students because they felt it was important to start introducing youth to the water treatment field, which has become more technology based and is increasingly environmentally focused.

"A lot of the people in the industry are getting older and the industry is getting more and more advanced so we are looking to bring in new minds," explained Welch.

Careers available at the WRC span a variety of paths such as mechanical, operational, engineering and environmental. There is also tuition reimbursement for those who work at the plant and want to pursue college, something Bass has in mind.

"I want to possibly go to college, but I plan to work at this job for quite a while," she said. "They have made a very good environment for me."

AMY FILARSKI, EXOTIC AUTOMATION & SUPPLY



Hello, my name is Amy Filarski. I'm the Human Resources Director at Exotic Automation & Supply. Our organization is based in New Hudson, MI and we have been business partners for the last several years with Oakland Schools Technical Campuses (OSTC). We provide opportunities for their students to have work-based learning opportunities and participate in soft skills seminars.

What we have found is that the OSTC students bring to us some basic foundational skills they have learned and are able to apply them right away to the work here at our organization. We also really enjoy the fact that they're passionate and excited about the opportunity to be here. This partnership works great for all involved as it gives us access to future talent to bring into our organization as well as provides the students at OSTC the opportunity to get some firsthand work experience.

WORK BASED LEARNING

Opportunities require certain prerequisites and instructor recommendation. Students may qualify for the following:

JOB SHADOWING

Job Shadowing will typically involve a one or two day experience to explore a potential career choice with an individual or organization. The business must be approved by the instructor and school-to-career coordinator.

ON-THE-JOB TRAINING (OJT)

This is unpaid work experience for second year students. An OJT work experience is an opportunity for a student to work in a job setting related to the student's Individual Career Plan for approximately three to four weeks. This unpaid job experience will allow the student to thoroughly explore this career area and provide them with an opportunity to choose specific paths and goals.

FIELD EXPERIENCE

Field Experience provides a responsible student with an opportunity to work as an employee in a paid position. The job must be related to the student's specific career path. An employer offers the student a part-time job for a specified period of time. The student will perform the assigned duties and function as part of the employer's staff. The student, instructor, school-to-career coordinator, and employer will work together to develop a work schedule that allows flexibility for completion of their classroom activities.

AGRISCIENCE AND ENVIRONMENTAL TECHNOLOGIES

- Blossoms on Main
- Clarkston's Family Farm
- English Gardens
- Lake Orion Veterinary Hospital
- North Oakland Headwaters Land Conservancy (NOHLC)
- Oakland County Water Resources Commission
- Planterra
- Serene Landscape
- Union Lake Veterinary Hospital
- Walled Lake Veterinary

AUTOMOTIVE TECHNOLOGY

- A & S RV Center–Auburn Hills
- Bowman Chevrolet
- Dean Sellers
- Feldman Chrysler
- Golling Buick GMC
- Independence Truck Repair
- Randy Wise Ford
- Shelton Buick GMC
- Suburban Chrysler Dodge Jeep Ram–Troy
- Summit Place KIA
- Szott M59
- Tamaroff Motors
- The Suburban Collection
- Varsity Lincoln Mercury
- Walled Lake School Transportation

COLLISION REPAIR AND REFINISHING

- Art Moran Buick GMC
- AutoMark Collision Center
- Ellis Bros. Collision
- G.E.B. Collision
- Hamlin Collision (CARSTAR)
- Milosch Palace Chrysler Dodge Jeep
- Penske Vehicle Service
- Premium Truck and Auto Body
- S & L Auto Body
- Service King Collision
- South Lyon Collision
- Suburban Ford (Suburban Collection)

COMPUTER PROGRAMMING

- Aperion
- Comerica
- IGD Solutions
- Oakland County
- Oakland Schools
- Vectorform

CONSTRUCTION TECHNOLOGY

- CarNav Group
- Cole Wagner Cabinetry
- Forbes Electric
- Hunter and Roberts Homes
- Laborers International Union of North America (LiUNA)
- Michigan Laborers Training Apprenticeship Institute (MLTAI)
- Onsite 24 Hour Solutions
- Thomas Sebold Associates

CULINARY ARTS/HOSPITALITY

- Colombiere
- Culver's
- Deer Lake Inn
- Real Green Systems
- Shepherd's Hollow
- Union Joints (Woodshop/Clarkston Union)

CYBERSECURITY NETWORKING

- Oakland Schools
- PTI Engineered Plastics

ENERGY-ELECTRICAL TECHNOLOGY

- 1st Heating and Cooling
- Clarkston DPW
- Daniel Electric
- Greenwire Solutions
- R.A. Lee Electric
- State Electric

ENGINEERING, ROBOTICS & MECHATRONICS

- BGM Engineering
- Brose
- Durr
- Eberspaecher
- FANUC America Corp/FANUC Robotics
- Frimo, Inc.
- GKN
- Hirotec America
- Kostal of America
- Rassini
- Sargon Partners
- Wenzel
- Williams International
- ZF

ENTREPRENEURSHIP AND ADVANCED MARKETING

- Chief Financial
- Genisys Credit Union
- Michigan Schools and Government Credit Union
- Northwood University
- Oakland County Parks
- Sargon Partners
- Shepherd's Hollow Golf Club
- Target
- Tecla
- Thomas Sebold and Associates, Inc.

GRAPHIC AND COMMUNICATION DESIGN

- Accelerate Kid
- L.A. Cafe

HEALTH SCIENCES

- Ascension Providence Hospital
- Beaumont Hospital
- Clarkston Medical Group
- HealthQuest Physical Therapy
- Jewish Vocational Services
- Kids in Motion
- McLaren Oakland
- Plymouth PT
- Regency at Waterford
- Rochester Fire Department
- Rochester Skin Cancer Center
- Sandyside Senior Living
- St. Joseph Hospital Oakland
- St. Joseph Mercy Oakland
- Walled Lake Fire Department
- Waterford Fire Department
- Wixom Fire Department

MACHINING

- Ace Controls
- Burners Inc.
- Classic Precision
- Detroit Management Services
- Dunmore Metal Art
- Exotic Automation
- Glass & Metal Craft
- Hirotec America
- MDI Worldwide
- Moeller
- NOG Heller
- Triple Inc.

MEDIUM/HEAVY TRUCK AND EQUIPMENT

- AIS Equipment
- Michigan CAT
- Tom Holzer
- Tri County International

WELDING

- AFC Holcroft
- Barron Industries
- Fraser Fab and Machine
- Heat Treating Services
- Lockwood USA
- Phoenix Induction
- Pratt & Miller
- Puritan Magnetics
- Solaronics USA



STUDENT ORGANIZATIONS

AMERICAN WELDING SOCIETY (AWS)

Active participation in an AWS Student Chapter provides the knowledge, experience and networking needed for a successful career in the welding industry. Meet other welding students and professionals at Chapter meetings, local AWS Section meetings and the FABTECH International and AWS Welding Show.

BUSINESS PROFESSIONAL OF AMERICA (BPA)

The BPA is a national career and technical student organization that seeks to contribute to the preparation of a world-class workforce through the advancement of leadership, citizenship, academic and technological skills. BPA serves students who are enrolled in business education.

DECA

DECA prepares emerging leaders and entrepreneurs in marketing, finance, hospitality and management in high schools and colleges around the globe.

FIRST ROBOTICS COMPETITION

FIRST Robotics Competition combines the excitement of sports with the rigors of science and technology. Teams of students raise funds, design a brand, hone teamwork skills and build and program robots to perform prescribed tasks against a field of competitors.

HOSA

HOSA develops leadership and technical skill competencies through a program of motivation, awareness and recognition. HOSA seeks to enhance the delivery of compassionate, quality healthcare by providing opportunities for knowledge, skill and leadership development of all health science education students.

MICHIGAN INDUSTRIAL AND TECHNOLOGY EDUCATION SOCIETY (MITES)

MITES students and teachers demonstrate that industry and technology are alive and well in the state of Michigan. MITES works to bridge industry's need for qualified, skilled workers and hard-working, career-minded students who fulfill that need.

MICRO-ELECTRIC VEHICLE COMPETITION

Teams design and build a miniature electric vehicle powered by one, AA dry cell battery. Vehicles compete by racing up inclines while pulling weighted trailers.

NATIONAL FFA ORGANIZATION

The National FFA Organization believes in the future of agriculture and seeks to make a positive difference in the lives of students by developing their potential for leadership, personal growth, career success and education. FFA is not just for students who want to be production farmers; FFA also welcomes members who aspire to careers as teachers, doctors, scientists, business owners and more.

NATIONAL TECHNICAL HONOR SOCIETY

The National Technical Honor Society is America's highest award of excellence for career and technical education. Students are nominated in January and February by their career technical education instructors based on achievement and leadership skills.

OAKLAND COUNTY COMPETITIVE ROBOTICS ASSOCIATION (OCCRA)

OCCRA is a local association formed to increase the number of students involved in competitive robotics. This is a full contact robotics competition, where students control 120-pound robogladators that are student-designed and built.

PROSTART

ProStart gives students the exciting opportunity to learn about the art of cooking and managing restaurants by training with professional chefs. ProStart also provides opportunities to earn college credit and make money while students are still in high school.

SKILLSUSA

SkillsUSA is a partnership of students, teachers and industry working together to ensure America has a skilled workforce. SkillsUSA helps students excel by providing educational programs, events and competitions that support career and technical education in the nation's classrooms.

VEX ROBOTICS

The VEX Robotics Competition challenges teams of students with designing and building a robot to play against other teams in a game-based engineering challenge. Classroom STEM concepts are put to the test on the playing field as students learn lifelong skills in teamwork, leadership, communications and more.



CAREER TECHNICAL EDUCATION BY THE NUMBERS*

80%

80% of high school students taking both CTE and college prep courses meet college and career readiness goals, versus 63% who are college and career ready through college prep courses alone.



Students enrolled in CTE courses are significantly more likely to develop problem solving, project completion, research, communication, time management and critical thinking skills during high school.

95%

The average high school graduation rate for students concentrating in CTE programs is 95%, compared to an overall graduation rate of 85%.

1/3

Almost 1/3 of CTE students have the opportunity to earn college credit and/or an industry certification through CTE.

28%

The need for information security analysts will grow by 28% through 2026, making it one of the top 20 fastest-growing occupations.

36%

36% of STEM jobs require postsecondary credentials that CTE students can obtain within two years of high school graduation.



Graduates with technical or applied science associate degrees can outearn bachelor's degree holders by \$11,000.6



Employers overwhelmingly say that the most valuable employee skills are soft or employability skills such as professionalism, teamwork and written and oral communication. The blend of technical, academic and employability skills that CTE programs provide best prepare students for fast-growing and high-earning jobs.

2x

Graduates are twice as likely to be engaged at work if they had a meaningful internship or job while in college.

89%

89% of manufacturers face talent shortages, with 60% reporting a high or very high impact on productivity.

MICHIGAN'S 50 HOT JOBS THROUGH 2028

| Michigan's High-Demand, High-Wage Careers | Projected Annual Job Openings | Hourly Wage Range | Growth (%) 2018-2028 | Typical Education And Training Beyond High School |
|---|-------------------------------|-------------------|----------------------|---|
| Accountants and Auditors | 3,510 | \$26-\$42 | 0.7 | Bachelor's Degree, License |
| Administrative Services and Facilities Managers | 690 | \$35-\$54 | 1.0 | Bachelor's Degree, Plus Work Experience |
| Architectural and Engineering Managers | 780 | \$53-\$76 | 1.0 | Bachelor's Degree, Plus Work Experience, License |
| Carpenters | 3,030 | \$17-\$30 | 2.8 | Apprenticeship, License |
| Child, Family, and School Social Workers | 1,500 | \$19-\$29 | 2.9 | Bachelor's Degree, License |
| Computer and Information Systems Managers | 780 | \$46-\$74 | 1.9 | Bachelor's Degree, Plus Work Experience |
| Computer User Support Specialists | 1,750 | \$18-\$29 | 2.5 | Some College, No Degree |
| Construction Managers | 590 | \$35-\$60 | 2.7 | Bachelor's Degree, Plus Moderate OJT |
| Cost Estimators | 690 | \$22-\$38 | 3.6 | Bachelor's Degree, Plus Moderate OJT |
| Education Administrators, Kindergarten Through Secondary | 530 | \$38-\$54 | 4.0 | Master's Degree, Plus Work Experience |
| Education Administrators, Postsecondary | 460 | \$35-\$70 | 4.3 | Master's Degree, Plus Work Experience |
| Educational, Guidance, and Career Counselors and Advisors | 960 | \$20-\$34 | 8.2 | Master's Degree, License |
| Electrical Engineers | 660 | \$36-\$52 | 2.4 | Bachelor's Degree, License |
| Electricians | 3,040 | \$22-\$37 | 5.5 | Apprenticeship, License |
| Elementary School Teachers, Except Special Education | 2,910 | \$23-\$41 | 3.5 | Bachelor's Degree, License |
| Financial Managers | 1,440 | \$42-\$75 | 11.0 | Bachelor's Degree, Plus Work Experience |
| General and Operations Managers | 5,460 | \$30-\$73 | 2.4 | Bachelor's Degree, Plus Work Experience |
| Health Specialties Teachers, Postsecondary | 610 | \$29-\$66 | 17.6 | Doctoral or Professional Degree, Plus Work Experience |
| Healthcare Social Workers | 610 | \$23-\$31 | 5.8 | Master's Degree, Plus Residency, License |
| Heating, Air Conditioning, and Refrigeration Mechanics and Installers | 1,070 | \$18-\$30 | 8.0 | Postsecondary Nondegree Award, Plus Long-Term OJT, License |
| Heavy and Tractor-Trailer Truck Drivers | 7,030 | \$16-\$25 | 2.2 | Postsecondary Nondegree Award, Plus Short-Term OJT, License |
| Industrial Engineers | 2,540 | \$35-\$52 | 8.6 | Bachelor's Degree, License |
| Industrial Machinery Mechanics | 2,280 | \$20-\$30 | 7.0 | Long-Term OJT |
| Industrial Production Managers | 1,020 | \$42-\$68 | 2.8 | Bachelor's Degree, Plus Work Experience |
| Instructional Coordinators | 460 | \$24-\$41 | 3.9 | Master's Degree, Plus Work Experience |

| Michigan's High-Demand, High-Wage Careers | Projected Annual Job Openings | Hourly Wage Range | Growth (%) 2018-2028 | Typical Education And Training Beyond High School |
|--|-------------------------------|-------------------|----------------------|--|
| Insurance Sales Agents | 1,310 | \$18-\$39 | 2.8 | Moderate OJT, License |
| Lawyers | 930 | \$35-\$69 | 1.4 | Doctoral or Professional Degree, License |
| Loan Officers | 900 | \$23-\$46 | 4.8 | Bachelor's Degree, Plus Moderate OJT |
| Logisticians | 900 | \$28-\$48 | 1.0 | Bachelor's Degree |
| Machinists | 2,880 | \$16-\$26 | 3.1 | Long-Term OJT |
| Management Analysts | 1,920 | \$31-\$51 | 4.6 | Bachelor's Degree, Plus Work Experience |
| Market Research Analysts and Marketing Specialists | 2,500 | \$22-\$41 | 15.1 | Bachelor's Degree |
| Marketing Managers | 430 | \$46-\$78 | 3.1 | Bachelor's Degree, Plus Work Experience |
| Mechanical Engineers | 3,190 | \$35-\$54 | 2.8 | Bachelor's Degree, License |
| Medical and Health Services Managers | 1,110 | \$34-\$60 | 7.1 | Bachelor's Degree, Plus Work Experience |
| Middle School Teachers, Except Special and Career/Tech. Ed. | 960 | \$23-\$38 | 3.8 | Bachelor's Degree, License |
| Nurse Practitioners | 340 | \$44-\$59 | 16.1 | Master's Degree, License |
| Occupational Therapists | 320 | \$31-\$43 | 7.9 | Master's Degree, License |
| Operating Engineers and Other Construction Equipment Operators | 1,000 | \$21-\$30 | 4.0 | Moderate OJT |
| Paralegals and Legal Assistants | 760 | \$19-\$29 | 9.1 | Associate Degree |
| Physical Therapist Assistants | 520 | \$22-\$30 | 7.0 | Associate Degree, License |
| Physical Therapists | 450 | \$36-\$49 | 9.4 | Doctoral or Professional Degree, License |
| Physician Assistants | 360 | \$46-\$60 | 18.0 | Master's Degree, License |
| Physicians | 560 | \$29-\$100+ | 1.4 | Doctoral or Professional Degree, Plus Residency, License |
| Plumbers, Pipefitters, and Steamfitters | 1,630 | \$21-\$38 | 7.4 | Apprenticeship, License |
| Registered Nurses | 6,620 | \$30-\$40 | 9.8 | Bachelor's Degree, License |
| Secondary School Teachers, Except Special and Career/Tech. Ed. | 1,740 | \$23-\$37 | 3.8 | Bachelor's Degree, License |
| Social and Community Service Managers | 500 | \$28-\$41 | 6.6 | Bachelor's Degree, Plus Work Experience |
| Software Developers and Quality Assurance Testers | 2,620 | \$34-\$53 | 12.2 | Bachelor's Degree |
| Speech-Language Pathologists | 310 | \$31-\$46 | 18.0 | Master's Degree, Plus Residency, License |

SOURCE: Bureau of Labor Market Information and Strategic Initiatives, Michigan Department of Technology, Management and Budget.

NOTE: This list includes occupations that show a favorable mix of projected long-term job growth, projected annual job openings, and median wages. It does not necessarily reflect current hiring demand. Hourly wage represents the 25th to 75th percentiles.

Non-Profit
Organization
U.S. Postage
PAID
Royal Oak, MI
Permit No. 869

OaklandSchools

TECHNICAL CAMPUSES

OSTCONLINE.COM

NORTHEAST CAMPUS
1371 N. PERRY STREET
PONTIAC, MI 48340
248.451.2700

NORTHWEST CAMPUS
8211 BIG LAKE ROAD
CLARKSTON, MI 48346
248.922.5800

SOUTHEAST CAMPUS
5055 DELEMERE STREET
ROYAL OAK, MI 48073
248.288.4020

SOUTHWEST CAMPUS
1000 BECK ROAD
WIXOM, MI 48393
248.668.5600



OaklandSchools

OAKLAND SCHOOLS | 2111 PONTIAC LAKE RD, WATERFORD, MI 48328 | 248.209.2000 | OAKLAND.K12.MI.US

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