

In addition to the technical curriculum, students will focus intensely on career planning and developing their career readiness skills. A career readiness curriculum has been developed to help teach these skills.



Articulation (free college credit) with regional post-secondary institutions is available for students who meet criteria and continue their education beyond high school. Students should apply their senior year.

Agriscience & Natural Resources (AG)* This is a one-year program and students in this program will work in the classroom and lab, learning and developing skills to prepare them for careers in agribusiness, animal science, environmental series, food processing, natural resources, horticulture and technical systems. Additional areas of study include sustainable agriculture, propagation, forestry, plant and greenhouse systems, animal anatomy/physiology, nutrition, reproduction and health. Upon completion of the program, students will have gained basic awareness of agriculture and natural resources and will have learned how the diversity of products in agriculture leads to future opportunities in the career field. Students that have successfully completed the first-year curriculum may return for a second year through an application process for Advanced Skills in the classroom, Work Based Learning (WBL) or industry certifications.

Allied Health (AH) This is a one-year program designed to explore the allied health career field. Allied Health provides students an overview of the many career options within the healthcare industry. Major components include anatomy, physiology, medical terminology, and professional clinical experience. Allied Health offers students hands-on experience with clinical and technical skills such as CPR, first aid, monitoring vital signs and basic personal care needs of the patient. Other areas of focus include phlebotomy, massage therapy, sports medicine, basic EKG's and career readiness skills. Students may earn American Heart Certifications (Basic Life Support, First Aid and Bloodborne Pathogens), Opioid Training for Healthcare Providers, Achieving Accuracy Blood Pressure, and American College of Surgeons Certification for Bleeding Control. Qualified students may be eligible to return for an Advanced Training Allied Health course and choose Certified Nursing Assistant (CNA) or Emergency Medical Technician (EMT). See Advanced Training Opportunities.

Automotive Technology (AU)* The Automotive Technology program is a two-year program and is accredited by the Automotive Service Excellence (ASE) Education Foundation in Maintenance and Light Repair (MLR). Students will learn technical skills in Preventative Maintenance; Engine Repair; Automatic Transmissions; Manual Transmissions & Drivelines; Suspension, Steering, & Alignments; Brakes, Electrical & Electronics, Heating and Air Conditioning; and Engine Performance. Students will also be introduced to automotive business concepts. Automotive Technology emphasizes safety in all aspects of the program. Students will be prepared to take the State of Michigan Mechanic Certification and ASE Student Certification tests.

Construction Trades (CT)* The Construction Trades program is a two-year classroom, laboratory, and job site-based program where the content is delivered through lectures, demonstrations and hands-on activities. The program is designed to provide an overview of many areas of construction including; employability skills, safety, construction mathematics, construction tools, equipment, materials, print reading, carpentry, electrical, mechanical, plumbing, masonry, heavy equipment, civil construction, construction careers and business management. Under the supervision of the Construction Technology teacher, para-educator, and local contractors, students will work on a house-building project as a large part of the program. Students may earn the following certifications: Career Connections, Occupational Safety and Health Administration (OSHA) 10-Hour Online and the Heartsaver CPR, AED and First Aid.

Cosmetology (COS) The Cosmetology course is a two-year commitment for those students pursuing the required 1,500 hours of instruction for their State of Michigan Cosmetology license. Students enroll as a senior in high school and must return after high school graduation to complete the 1,500-hour requirement. First year students concentrate on theory and practice hands-on skills utilizing mannequins and each other. Second-year students continue their studies in theory and practical work, as well as, operate the Touch of Class Salon where students experience real-life salon situations. Students completing the program register with LARA to take the Michigan Cosmetology State Board Exam and upon passing the test, they will be licensed as a cosmetologist.

Culinary Arts (CA)* The Culinary Arts program is a one-year program that will provide students with a wide-range of experience in the culinary and food service industry with a heavy importance on sanitation and safety. After completing the ServSafe unit and safety training, students will gain experience in Real Food Industry Service through various catering events, located at the Mecosta-Osceola Career Center. All students will rotate in a variety of catering positions gaining valuable work experience in food preparation, customer service, teamwork, commercial foods and the hospitality industry. Students may earn the American Heart Certifications: Heartsaver CPR, AED and First Aid. Additionally, students have the opportunity to obtain their ServSafe certifications in Allergen, Food Handler and Manager. Students who have successfully completed the first-year curriculum, may apply for a second year for Advanced Learning and enrollment is determined by an application process. They will focus on Work Based Learning off campus and will continue learning in a partnership with Ferris State University (FSU) through their Restaurant and Food Industry Management program for the opportunity to earn college credit toward an undergraduate Certificate.

Cybersecurity (CS)* This one or two-year course that focuses on the evolving and pervasive technological environment with an emphasis on securing personal, organizational, and national information. Explores the broad topic of cybersecurity in a way that matters to you. Learn how to protect your personal data and privacy online and in social media, and why more and more IT jobs require cybersecurity awareness and understanding. Students will investigate the high-skills, high-wage, and in demand career opportunities in the vast field of cybersecurity. Students will have the opportunity to earn Industry certifications from companies like CompTIA, Cisco, EC-Council, Microsoft, and others. Learn the principles, explore emerging technologies, and examine threats and protective measures that are Cybersecurity. Additionally, Cybersecurity students have the opportunity to earn college-credit at little to no cost. Students can earn up to 12 credits by dual-enrolling with Ferris State University (FSU). Students who enroll in the Mecosta-Osceola CTE Early Middle College program can earn their Associate of Applied Science (AAS) in Information Security and Intelligence from FSU. See Advanced Training opportunities.

Programs Continued on the back side. Wc: 1/26

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Continued MOCC Programs

Diesel Technology (DT)* The Diesel Technology program is accredited by the Automotive Service Excellence (ASE) Education Foundation in Inspection, Maintenance, and Minor Repair (IMMR) accreditation. This two-year program is designed to equip students with entry-level skills in the maintenance and repair of medium and heavy-duty trucks, heavy equipment, and agricultural machinery. Students will learn technical skills in Diesel Engines; Drivetrain; Brakes; Suspension & Steering; Electrical & Electronics; Heating, Ventilation, & Air Conditioning (HVAC); Preventative Maintenance; Welding; and Hydraulics. Students will also be introduced to transportation and agriculture equipment repair business concepts. Diesel Technology emphasizes safety in all aspects of the program. Students will be prepared to take the State of Michigan Mechanic Certification and ASE Student Certification tests. Additionally, students may take the Forklift, Snap-On Meter, and the MACS 609 Certifications.

Educator Academy (EA)* The Educator Academy is a one-year program. Teacher cadets begin by learning foundational skills to be successful in a classroom including developing relationships and creating a safe environment. Working alongside veteran teachers each week, cadets will practice these skills in their community. A realistic understanding of teaching as a career will be achieved through assignments and experience in a variety of subjects, settings, and grade levels. Students who have successfully completed the first-year curriculum may be eligible for college credits and may return for a second year for Advanced Skills focusing on Work Based Learning (WBL) for a preferred setting, apply for a paid internship as a Reading Support Scholar, or earn the Michigan Youth Development Associate (YDA) Certificate.

Graphics & Printing Technology (GP)* This program is a two-year exploratory program that gets students a hands-on approach to the Digital Design and Print industries of the world. Printing Technology has a vast variety of new, exciting and high-demand careers to choose from, and many students will find the perfect fit. First-year students are exposed to all aspects of the industry as they develop skills in designing and producing printed products. Second-year students participate in a self-paced study of specialized and more advanced graphic processes all while utilizing the most up-to-date software and equipment for real industry experiences. The Graphic & Printing Technology program (PTEC) is designed to provide hands-on instruction in Graphic Layout and Design, Photography, Apparel Decorating, Digital/Offset Printing, Customer Service, Teamwork and Problem solving.

Manufacturing Technology (MT)* This program is a one or two-year program at MOCC. The curriculum is designed to provide students with relevant training and skills needed to qualify for a wide range of technical jobs in manufacturing. First year students will learn Mechatronics. Mechatronics is an interdisciplinary engineering field that combines mechanical engineering, electrical engineering, computer science, and control systems to create intelligent, responsive, and efficient manufacturing systems. The purpose of the Mechatronics study is to allow students to explore automation technology and the mechatronic systems essential for manufacturing. Students will design and create automated systems. Additionally, first year students will learn the fundamentals of AC and DC circuits, which are the foundation of all manufacturing automation systems. First year students may earn industry-recognized credentials that are awarded by the National Coalition of Certification Centers (NC3). Students that have successfully completed the first-year curriculum may apply through an application process to return for a second year for Advanced Learning in the classroom or in a Work Based Learning (WBL) opportunity off campus. Second year advanced skills and NC3 certifications will be in Programmable Logic Controllers (PLCs), which are widely used devices for automation control and are found in nearly every manufacturing facility around the world. In addition, students will learn how to program Human Machine Interfaces (HMIs) which are used for automation equipment interfaces. Be sure to check out this High Skill and High Demand career field!

Public Safety & Protective Services (PS)* This program is a one-year program that introduces students to various career fields that serve the community. Students are introduced to career opportunities within the Public Safety and Protective Services fields that include: Police Officer, Social Worker, Firefighter, Corrections Officer, EMT, 911 Dispatcher, Probation/Parole, Military, Forensic Science, Mental Health Services and more. The curriculum consists of hands-on experiences focusing on a code of ethics, community service projects, physical and/or mental health fitness, work exploration and field-trips relating to various forms of public safety and Protective Services. Students will thrive in self-discipline, leadership skills and teamwork throughout this program. Public Safety & Protective Services students focus on Career Readiness skills and career related certifications, such as, CPR, AED, First Aid, Blood Borne Pathogens, Stop the Bleeding, Psychological First Aid, Hunter and Boater Safety and Opioid training. Students interested in Advanced Skills may apply for a 2nd year in Public Safety and Protective Services for Work Based Learning off campus and/or continue learning through the Law and Public Safety Education Network curriculum (LAPSEN). See Advanced Training for more details on the Corrections Academy. An application process is required for Advanced Skills and Advanced Learning opportunities.

Welding & Fabrication (WE)* This is a one-year program that teaches students various welding and cutting processes: Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Gas Tungsten Arc Welding (GTAW), Flux Core Arc Welding (FCAW), spot welding, oxy-fuel welding, brazing, plasma cutting and carbon arc gouging. Fabrication tools used include the drill press, shears, power shears, benders, brakes, and CNC plasma cutters. Students will use metal-working, welding, and cutting processes to fabricate projects. Students who have successfully completed year one and are interested in Advanced Learning may apply for a 2nd year in Welding or enroll in another MOCC Program to add to their technical skill-set. The second year is for senior students and entrance is by application only. The WE Advanced Skills during the 2nd year will focus on Work Based Learning (WBL), Computer Aided Design (CAD) programs, and/or more in-depth welding processes. Students may earn the following certifications: American Welding Society (ASW) Sense Level 1 and Qualification Record of Welding (4 different welds). *

Programs designated with an (*) after the title are programs where second-year students may be able to apply to be placed in cooperative Work Based Learning (WBL) positions at a regional employer. MOCC Programs are subject to change.

**For more enrollment information please call 231-796-5805 or visit www.moisd.org
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ADVANCED TRAINING PROGRAMS 26-27



Students who have successfully completed the Allied Health or Public Safety program, as juniors, have the option to enroll in one of the Advanced Training programs their senior year with Counselor approval if dual enrollment is applicable. **Other seniors (Non-MOCC Students or Non-Program Completers) may enroll with Counselor recommendation through an application process.** All advanced courses are structured for competency-based group instruction using state-approved curriculum and are sanctioned by the appropriate accrediting organization where applicable. Students who meet requirements and progress satisfactorily through the course will have the opportunity to take the written and hands-on assessments and earn their license/certification. **Each Advanced Training program has required training hours. Open to Seniors only.**

PLEASE NOTE: Advanced Training Programs may be available based on interest. Availability is subject to change.

Allied Health Career Pathway

Certified Nursing Assistant (CNA) & Phlebotomy

This is a one-year program. In this program, you will learn the information and skills necessary to become a successful Certified Nursing Assistant (CNA) and Phlebotomist. CNA's work in hospitals, nursing homes, assisted living facilities, hospice agencies and in-home healthcare. Students will learn how to document/report on patients, check vital signs, administer medications and/or treatments, apply dressing and bandages, basic patient care, dementia care, employability skills and professionalism in the work-place. In this program students will do clinicals in area facilities, volunteer at assisted living facilities and have job shadow experiences where they will use their hands-on patient care skills. Students will have the opportunity in the 2nd semester to get certified in dementia care, medication administration, phlebotomy or explore a healthcare career by doing Work Based Learning (WBL). In the phlebotomy course students will learn how to use proper technique when collecting blood and other specimens, safety and infection control practices as well as hands-on practicum. Phlebotomists can work in hospitals, physician offices, blood centers or laboratories. At the completion of the full course students have the opportunity to receive four certifications; Certified Nursing Assistant (CNA), Dementia Care, Medication Administration and Phlebotomy. **Please Note: This program has specific training requirements and required hours. Open to senior students.**

Allied Health or Public Safety Career Pathway

Emergency Medical Technician (EMT) This is a one - year dual enrollment program that is offered in partnership with West Shore Community College. This program prepares students to become an emergency medical responder that is capable of providing pre-hospital care in a variety of emergency situations. Students will engage in a combination of direct classroom instruction, asynchronous learning and laboratory skill checks. Students with EMT training may be employed with additional advanced training as a paramedic, fire services or may work in a hospital setting. Students that successfully complete this program will have the knowledge and skills to successfully complete the NREMT Exam and State Licensure. **Please Note: This program has specific training requirements and required hours. Open to senior students.**

Public Safety Career Pathway

Corrections Academy (COR) This is a one-year Advanced Training program for Public Safety completers. In addition, a senior who has not attended MOCC or is from another MOCC program may apply by application. Corrections students who successfully complete each module of the academy and pass the final exam will be certified as a Local Corrections Officer. The academy curriculum consists of book-work and physical training. In order to be hired by a Sheriff's Office, students must also successfully pass the Michigan Sheriffs' Coordinating and Training Council written examination, proctored by EMPCO, which tests students' mental fitness in the areas of reading comprehension, writing, and situational reasoning. Students must also successfully pass the Local Corrections Officer Physical Ability Test (LCOPAT) to be hired by a Sheriff's Office. This is the only high school-level corrections academy in Michigan sanctioned by the Michigan Sheriffs' Coordinating & Training Council. Upon successful completion of all requirements, students may be employed at a county jail as a Corrections Officer. Further details about the academy requirements can be found at www.misctc.org.

Please Note: This program has specific training requirements and required hours. Open to senior students.

Firefighting I & II (FIRE) This is a one - year program that introduces students to careers within the field of fire service. Students will be introduced to careers in emergency response, fire behavior, investigation and prevention. Students will learn current fire suppression techniques and participate in rescue and safety training. Students will also have the opportunity to gain hands-on experience using current technology, tools and equipment. Students successfully completing the program will have the opportunity to earn their Firefighter I, Firefighter II and Hazmat Operations certifications. **Please Note: This program has specific training requirements and required hours. Open to senior students.**

Mecosta-Osceola Career Center Early/Middle College

For ALL Early/Middle College interest, please be sure to let your High School Counselor and MOCC Program Instructor know at the time of your Career Center enrollment.

Cybersecurity (CS) The Cybersecurity students may earn their Associate of Applied Science (AAS) in Information Security and Intelligence from Ferris State University through the MOCC Early Middle College opportunity at little to no cost to the student. By enrolling in EMC, students complete a 13th year of high school, taking only Ferris State classes this 13th year. Upon completion of the 13th year, students receive their high school diploma and may also receive their AAS/ISI from FSU. Please see MOCC Program Summary Sheet or contact Roger Meinert, CS Instructor, at rmeinert@moisd.org or Jayna Wekenman, Career Services Coordinator, at jwekenman@moisd.org for more information. Programs are subject to change.

Notice of Nondiscrimination In compliance with Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, the Americans with Disabilities Act of 1990, and the State of Michigan's Elliott-Larsen Civil Rights Act of 1977, Section 102(a) it is the policy of the Mecosta-Osceola Intermediate School District that no person shall, on the basis of race, color, religion, national origin or ancestry, gender, age, disability, height, weight, or marital status be excluded from participation in, be denied the benefits of, or be subjected to discrimination during any program or activity or in employment. In addition, arrangements can be made to ensure that the lack of English language skills is not a barrier to admission or participation. Inquiries regarding this policy should be directed to: Superintendent, Mecosta-Osceola Intermediate School District, 15760 190th Avenue, Big Rapids, MI 49307, Telephone (231) 796-3543.

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