Career Tech

Program Overview

Northwest Education Services



Ed Career Tech

Northwest Education Services

Offering 23 career and technical education programs

ARTS & COMMUNICATION



CULINARY ARTS

Develop and apply cooking and serving techniques in the World Class Café, our student-run restaurant. You will learn all aspects of the industry including basic cooking skills, baking, catering and front-of-the-house hospitality.



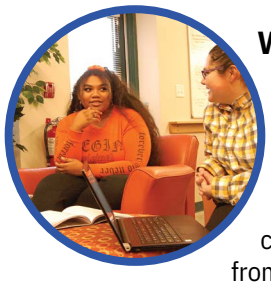
FILM & NEW MEDIA

Learn to communicate effectively using the visual media that dominates communication today. If you learn to tell a good story through video, you can persuade more people, sell more products and raise more awareness. Learn all aspects of planning and executing effective video communications while mastering the most powerful medium of our time.



GRAPHIC ARTS*

Explore the print and design industry while you acquire hands-on experience and skills in digital imaging and visual communications. Use state-of-the-art software and production equipment as you work independently and collaboratively. Apply creativity, graphic design skills and project management to produce stunning visual images. The outcome is a professional commercial portfolio for work or college that is a cut above.



WRITERS STUDIO*

Students who crave the written word thrive here. Develop creative and professional writing skills that will be helpful in any career, and give you a leg up in journalism, multimedia work and professional communications. Learn various writing styles from professional writers and take advantage of opportunities to publish, perform and produce in an environment of supportive peers.

SCIENCES



AGRISCIENCE*

Gain hands-on experience with hydroponics, aquaculture and animal science in our 3,624-square-foot greenhouse and barn facilities. Study natural resource issues such as Great Lakes ecology and participate in raising animals and understanding the complexities of animal nutrition. Be a part of planting, growing and managing greenhouse plants and agronomic crops.



HEALTH SCIENCES*

Gain the knowledge and skills required for employment in one of the hottest job markets. Coursework includes anatomy and physiology, medical terminology, health maintenance, safety, CPR/first aid certification and fundamental patient-care skills. Gain valuable experience through hands-on clinical learning hospitals, long-term care, dental, pharmacy, veterinary and general family medical practices.

BUSINESS & TECHNOLOGY



BUSINESS CAREERS*

Choose from three pathways in this program: general business, accounting or Early College accounting. General business provides students an overview of business careers. Accounting pathways provide an introduction for students to learn how to keep track of a business's finances with options to earn college credit.



INFORMATION TECHNOLOGY*

Gain technical expertise with hands-on projects using current and legacy hardware and software. You will learn to design, implement and support the technology that business and industry use today. Physical equipment and software is used to simulate local area network environments. Students have opportunities to earn industry-recognized certification.



WEB & APP DEVELOPMENT

Use desktop and web-based applications to learn the basics of game programming, web design and web programming. You will prepare for internships or a career in fields such as computer science, multimedia & visual communication, graphic arts and game programming.

HUMAN SERVICES



EARLY EDUCATION

Prepare for careers working with children and families by learning about human growth and development, and creating lesson and activity plans. Earn safety training certificates including CPR and first aid, and explore child-related career opportunities. Students will spend time with child and family experts by participating in job shadows and work experiences to understand early childhood education.



PUBLIC SAFETY*

Gain a broad base of practical experience and content knowledge for careers in public safety, including law enforcement, firefighting, military and emergency medical services. Participate in job shadows/work experiences to better understand the criminal justice field.



TEACHER ACADEMY*

Explore the teaching profession in this national award-winning program. Spend one hour a day in the classroom of a host teacher. Each marking period you will change placements and experience a variety of subjects and grade-levels. This program allows you to remain at your home school, with opportunities to attend conferences, field trips and site visits with other students and mentor teachers. If you've ever considered a career in education, this program is for you.

Ed Early College

Career Tech
Northwest Education Services

NMC

Ferris State University

North Ed Early College is a partnership among Northwest Education Services, Northwestern Michigan College and Ferris State University. It enables high school students to save time and money by earning an associate degree, professional certificate, or transferrable college credits while completing coursework in their North Ed Career Tech program.

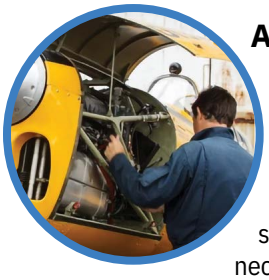
** Programs that are eligible for Early College enrollment.*

ENGINEERING & INDUSTRIAL TECHNOLOGY



AUTO REPAIR*

Develop your skills as an automotive technician using industry-standard curriculum and on-the-job experiences at area shops and dealerships. This course follows the ASE-aligned and NATEF-certified Maintenance and Light Repair Curriculum. You will focus on building the skills to transition directly into the workforce or to a post-secondary learning opportunity.



AVIATION MAINTENANCE

Develop highly technical skills through a hands-on approach to learning the mechanics of flight, inspection of aircraft airframes and maintenance of modern aircraft. Students will learn the value of sustaining high standards of workmanship necessary to succeed in the career field of aviation maintenance.



COLLISION REPAIR

Repair automobile and light truck bodies while you develop the technical competencies needed in this field. Bodywork involves MIG welding, repairing damaged body panels, body panel replacement and plastic filler applications. You will acquire hands-on experience using welding equipment, specialized tools and paint spray equipment.



CONSTRUCTION TRADES

Use a wide array of power and hand-held tools to complete projects. Gain an understanding of blueprints, use of layout instruments, learn proper installation of concrete flat work and masonry, rough and finish carpentry, drywall, building codes and laws, and general construction safety.



ELECTRICAL OCCUPATIONS

Gain working knowledge of the technological aspects of electricity; electronics; utility and electrical distribution; air conditioning and heating, refrigeration; and residential, commercial and industrial wiring. You can prepare for post-secondary training or apprenticeships in residential and commercial wiring, utility or high voltage, or HVAC. This program is also a good option for students interested in robotics, automation or manufacturing.

Find more on the back cover →

ENGINEERING & INDUSTRIAL TECHNOLOGY (Continued)



ENGINEERING ACADEMY*

As a state and national award-winning STEM program, the Engineering Academy offers rigorous academic and engineering classes with a focus on math, science and physics. Students earn a total of 8 academic and elective credits in this two-year program. Cross-curricular topics include 3D printing, basic construction and machining, computer-aided design, electrical, pneumatic systems and statistics. Students work closely with an industry mentor, participate in an internship and work in teams to design, build and compete with robots at the National Robotics Challenge. This unique student culture is centered around problem-solving, critical thinking and teamwork.



HEAVY EQUIPMENT & DIESEL MAINTENANCE

Learn the secrets of engine performance, troubleshooting complex diesel systems like a pro. You'll get a hands-on experience that sets you on a fast track to mastering the massive machines that power our world. Explore diesel diagnostics from powertrain systems, hydraulics, electrical and computer controls, and gain foundational knowledge in the safe, effective operation and repair of heavy equipment.



POWER SPORTS & EQUIPMENT

Disassemble, measure and reassemble two-stroke and four-stroke engines. Gain training in shop practices and safety skills. Develop expertise in engine systems including starting, charging, ignition, electrical, lubrication and cooling system theory and service. Learn how to service all makes and models of power equipment; from lawn tractors to motorcycles.



ADVANCED MANUFACTURING*

Develop entry-level career skills in the machine tool field. Gain technical knowledge and skills in the set-up and operation of manual and CNC-operated machine tools. Skilled machinist jobs are in high demand with well-paying cooperative work opportunities available while students complete high school graduation requirements.



ROBOTICS & AUTOMATION*

Dive into modern manufacturing and the technology that powers industry and engineers. Students learn to integrate mechanical, electrical and software components, gaining practical experience through hands-on learning with CAD, CNC machining, rapid prototyping, fluid power and electrical circuits. Prepare for in-demand careers by exploring systems integration and fabrication techniques. Students put their knowledge to the test by competing in the National Robotics Challenge and can earn 6 college credits.



WELDING*

Gain practical experience in the set-up and use of equipment and processes common to current welding trade standards. Learning and mastering a variety of welds on different metals and types of welding equipment, students leave prepared for entry-level employment or college readiness. Students can compete in competitions and prepare for earning American Welding Society (AWS) credentials.

Turn Your Interests into Opportunity

Talk with your high school counselor

Browse the web: NorthwestEd.org/o/ct

Visit us: 880 Parsons Road, Traverse City, MI 49686

Call us: 231.922.6273

Why enroll at North Ed Career Tech?

It is anything but ordinary!

Career and technical education makes going to school ***EXTRAORDINARY!***

Find your career, your place, your future at North Ed Career Tech