CAREER PATHWAYS

PATHWAY TO SUCCESS

Tuscola Technology Center

1401 CLEAVER ROAD, CARO MI 48723 (989) 673-5300

WWW.TUSCOLAISD.ORG
ART & DIGITAL DESIGN

Anyone can learn to design everything from business cards to billboards. Prepare for an exciting career in Digital Design where you will develop creative approaches to promote products, services and ideas for commercial use. The graphics industry is growing fast and needs thousands of new workers. From design to the advertised product, the creative industry offers an exciting and colorful career. This program is designed for students interested in careers in the digital design industry such as computer graphics, printing, digital photography, advertising design and illustration. Emphasis is geared toward hands-on-learning using state-of-the-art equipment to give each student the best possible training to acquire job related skills. Learn to be creative and prepare artwork for press printing, t-shirts, package design, websites, video production, animation, brochures, magazine ads, banners, signs and identity packages. Students learn skills to go right into the field or jump start their college studies by earning articulation credits. Student clubs: Michigan Industrial Technology Education Society (MITES) and SkillsUSA. Please see list of program certifications and colleges we articulate with on the back cover.

GRAPHIC COMMUNICATIONS

The graphics industry is rapidly changing and is in constant need of new workers. From design and production to finishing and delivery, the graphics industry offers thousands of opportunities for career choices. This program is designed for students interested in the graphic communications industry including graphic design, typography, logo development, illustration, offset printing, screen printing, digital imaging, dye-sublimation, and signage. Projects and course work include designing and printing posters/cards, t-shirts, identification packages, vinyl graphics, digital illustration and animation and much more. Certification and college credits may be earned through TTC Graphic Communications. Jumpstart your exciting career in graphics with this award winning, student certified program! Student Clubs: Michigan Industrial Technology Education Society (MITES) and SkillsUSA.

TTC COUNSELING SERVICES

The Tuscola Technology Center counselors provide a full range of services to TTC students. The Counselors specialize in providing career counseling and academic support to students. The Counselors coordinate with local school districts, TTC Instructors and Paraprofessionals to provide specialized supportive services to Special Populations students.
HUMAN SERVICES

PROFESSIONS IN EDUCATION/EARLY CHILDHOOD

This program is an introduction to employment possibilities in the field of education (e.g. administration, support personnel, special staff) in addition to classroom teaching. Classroom instruction will include lecture, discovery, discussion, role-playing activities, problem solving and decision-making, simulation, speakers, projects, debate, and observation designed to expose students to different methods of teaching while educating them about teaching and learning styles. All students will observe and participate in actual classroom settings at preschools, kindergarten, elementary, and middle school levels. Students will explore and analyze both the positive and negative aspects of a teaching career, including potential job openings, areas of teaching shortages, potential earnings, advancement options, licensing requirements, expectations and applicable laws. All students will be involved in field experiences and observations in a variety of educational settings to increase their awareness and understanding of teaching. In addition, students will experience working in our licensed preschool center. Children ages 3-5 attend the preschool. First Aid, CPR & AED certification is offered and college credit may be earned. A CDA (Child Development Associate) Program will be available to qualified students. The CDA is a national credential that qualifies caregivers to work with children. The MTTC PRE (Michigan Test for Teacher Certification) examination will be offered to qualified students. Successful completion of this exam will admit students to the College of Education at all Michigan Universities. Qualified students may obtain WorkKeys Certification. Student Club: SkillsUSA

COSMETOLOGY

Learn the science of beautifying and improving the complexion, skin, hair and nails in the Cosmetology Program. The classes are held at Howard’s Beauty Academy in Caro. Here the students undergo 350 hours of class work and laboratory studying, and then have 1,150 hours of floor work guided by the experience of professional instructors. The students use technical, business and people skills routinely throughout the day. This course is designed to prepare students for the state exam and licensing process. (NOTE: This course requires 50 hours during the summer between the junior and senior year) Licensure is offered through the State of Michigan. Student Club: SkillsUSA

LAW ENFORCEMENT/PROTECTIVE SERVICES

Students will have an opportunity to experience the challenge of working in the public sector and the importance of community involvement. Law Enforcement/Protective Services is a program that offers the introduction of all aspects of the criminal justice profession. Students will have the opportunity to participate in work experience with various criminal justice organizations. They will work with law enforcement department members to enhance their training and education. The program prepares students to work in a professional and courteous manner with members of the community. Samplings of law enforcement/protective services organizations participating are local police departments, court systems, correctional facilities, volunteer agencies and many more. College credits may be earned. Student Club: SkillsUSA.

PLACEMENT SERVICES

Tuscola Technology Center is able to provide job placement assistance to all students, through either your program instructor or Placement Office. TTC job placement assistance is designed to help you find full-time, part-time or temporary jobs, as well as work-based experience for credit with the following programs: Apprenticeship, Co-Op, Work Experience or Job Shadowing.

BIST (Business & Industry Site Training) is offered to students who cannot obtain this type of curriculum/training at TTC or at their local school. The training is offered at the site of an employer and the experience is for a full year. Students are not paid, however, they receive school credit. The program must operate under state approved Classification of Instructional Programs (CIP) code.
COMPUTER TECHNOLOGY
MANAGEMENT

Students have the opportunity to become certified specialists in several computer areas. All students will learn HTML, CSS, Networking Fundamentals, Security Fundamentals and Windows Operating System Fundamentals. After completing the basics, students will focus either on CompTIA A+ Certification or Network+ Certification. Second year students have the ability to choose from many interest areas: Video Editing, Advanced Web Design, Programming, Game Design, or another area of their choice. Skills taught are installing cables, building and repairing computers, web design, beginning programming, network administration, computer security and computer diagnostics. Students will learn with software such as Adobe Creative Cloud, Microsoft Office, TestOut Certification Preparation, GameMaker, Microsoft Visual Studio, Blender, and SketchUp. Industry Certifications offered: A+, Network+, MOS, MTA and MCSA. Student Club: Business Professionals of America.

INSURANCE ACADEMY

In this innovative program, students will explore careers in the high demand, high pay Risk Management and Insurance Industry. Most students will begin their journey to work for an insurance company, while others will work for an insurance agency. Students will investigate the process of risk management and the field of insurance including claims adjusting, commercial insurance, financial planning, loss exposures and protection, marketing, personal insurance, and underwriting. In year one, students will earn nine (9) transferable Northwood University credits by attending class at Frankenmuth Insurance Headquarters in Frankenmuth (M, W, Th & F) and in optional year two, will earn an additional three (3) transferrable credits from Northwood University by attending class at the Tuscola Technology Center on Tuesdays.

CULINARY ARTS

Students will rotate through all areas of a real, licensed commercial kitchen. They will bake, batch cook, short order cook, serve, cashier and do dishes. The class will complete a number of individual and group projects throughout the year including cake decorating, pies, gingerbread houses, interview day, portfolios and restaurant design. Culinary Arts and the Hospitality industry continue to be one of the largest growing industries in the country. Students will serve groups plated, buffet style and short order meals. The curriculum is ProStart, which is national high school culinary arts. Students will have the opportunity to earn industry certificates from ProStart & ServeSafe. Students will be competing in ProStart and SkillsUSA competition where they can earn scholarships. Student Clubs: ProStart & Skills USA.

MARKETING & BUSINESS
MANAGEMENT

The main objective of the TTC Marketing & Business Management Program is to develop business professionals in exciting career fields related to sales, management, marketing and entrepreneurship. Participation in DECA (a youth club for Marketing students) is another major focus where students have the opportunity to compete and travel at the district, state and national level. Finally, students operated a Gold Certified school based enterprise and have the chance to earn the National Professional Certificate in Customer Service.

HEALTH SCIENCES

NURSING CAREERS

Join the fastest growing career in the health care industry. Gain first hand, on the job experience working with nurses and patients at the Tuscola County Medical Care Community. Nursing careers can lead to a wide variety of employment possibilities and to a lifetime of satisfaction with helping others. This program is an advanced academic program for the self-disciplined and motivated student who is interested in pursuing a career in the health field. This is an exciting program that prepares students for articulation to Delta College, Baker College or Davenport University for a smooth transition from high school to college. Students will also have the opportunity to become a Certified Nursing Assistant after passing the state issued certification exam. First Aid & CPR certification is also available. Student Club: Health Occupation Students of America (HOS A).
MANUFACTURING & INDUSTRIAL TECHNOLOGY

AUTOMOTIVE BODY REPAIR

The Auto Body class helps students to develop the hand-on skills necessary to repair damaged vehicles. The Technology Center has a large auto body repair shop that has all of the tools and equipment found in most independent body shops and dealerships. Students will learn painting and refinishing. Students learn to properly use tools and equipment needed for each job and to develop safe working practices and habits. Additional areas of instruction include: shop safety, metal finishing, welding, panel replacement and estimating. This program is nationally certified by ASE & NATEF and offers student certification through the State of Michigan, ASE. College credits may be earned. Student Club: SkillsUSA.

CONSTRUCTION TECHNOLOGY

During the first year, students learn the basic skills of residential home construction. Students can apply their skills while building a residential home on campus. Exciting projects are based on units in carpentry, masonry and electrical wiring. Field trips and tours help students gain current information about building trends and methods. Students have the opportunity to join a student youth club that provides experiences to further develop career skills, leadership, teamwork and professional skills needed by employers. This program offers SkyTrak/Rough Terrain Forklifts certification, college credits may be earned, 60 hour builder pre-licensure certificate, and a 10 hr OSHA certification. Students will also have the opportunity to visit apprenticeship programs. Student Clubs: Michigan Industrial Technology Education Society (MITES) & SkillsUSA.

ELECTRICITY/ELECTRONICS/WIND TURBINE ELECTRICAL

There are many high-paying, in-demand jobs that specialize in the areas of electricity, including various types of electricians, engineers, and technicians in the manufacturing, medical, energy, military, residential, and commercial environments. TTC’s two-year Electricity/Wind Turbine Electrical program is designed to prepare students for those careers. Students learn about electrical concepts, components, and code requirements by performing hands-on tasks such as soldering, wiring, smart home technology, LED technology, troubleshooting. Recent projects include: T-Bucket hot rod, large animal learning facility, green energy cabin, electric go-karts and a programmable hydroponic system. Future products include: Wind Turbines, PLC’s & Car Audio Systems. College credit may be earned. Student Club: SkillsUSA & Michigan Industrial Technology Education Society (MITES).

AUTOMOTIVE TECHNOLOGY

The Automotive Technology Program is intended to prepare students to be successful in taking and passing the National Institute for Automotive Service Excellence (ASE) Test and to enter the automotive field as an advanced apprentice technician. Due to the fast changing and challenging nature of the automotive field, this is considered a two-year program. We use the new NATEF Maintenance & Light Repair program that business and industry has asked NATEF to develop. This program is nationally certified by ASE & NATEF. Also, it offers student certification through the State of Michigan. College credits may be earned. Student Clubs: SkillsUSA, Michigan Industrial Technology Education Society (MITES) & Ford AAA.
MANUFACTURING ACADEMY
The Manufacturing Academy is a two year program with dual enrollment at Delta College. In the first year, students will learn how metal behaves through the use of common manual machining operations on engine lathes, mills and grinders. The second year of the program introduces computer numerically controlled (CNC) machine operation and programming. Both years include a job shadow or co-op component that can be leveraged into part-time employment. At the end of the second year, students can earn a total of 22 hours of college credit and nearly complete Delta's Certificate of Achievement in CNC.

DIESEL TECHNOLOGY
This individualized program enables students to maintain and repair a wide variety of equipment including agricultural and heavy equipment. A student will diagnose, tune-up, and overhaul diesel engines. The student will become familiar with brake, steering, suspension, electrical and electronic systems, as well as, preventative maintenance and welding/fabricating. Diesel Technology is one of the fastest growing occupational areas in our area. This program offers several certifications, as well as, articulates with many colleges (please see list of certifications and articulating colleges on back cover).

WELDING & FABRICATION
Welding is a leader of today's high tech approach to manufacturing and is in high demand. Students will be trained for a variety of jobs for the metal fabrication industry. Along with training in various types of techniques and processes, students receive instruction in the use of industrial equipment. Emphasis is placed on welding techniques and joining methods, use of wire feeders, plasma cutting and welding torches. Students will have the opportunity to earn the American Welding Society certification, as well as college credit. Student clubs: Michigan Industrial Technology Education Society (MITES) & SkillsUSA.

NATURAL RESOURCES & AGRI-SCIENCE

AGRISCIENCE & NATURAL RESOURCES
All students within the Agriscience and Natural Resources program will gain basic understanding of the exciting and dynamic industry of Agriculture. Topics covered: agribusiness, leadership, basic animal science, basic plant science and intro to natural resources; these areas all intertwine in the Agricultural Industry. Students will get hands on training in new technology in the Large Animal Learning Facility, Hydroponic Greenhouse, Horticulture Greenhouse, and aquaculture systems. Students may choose from:

Plant Science – growing various types of plants from seed to harvest or from plug trays.
Environmental Science – Wildlife Management, Ecology, Forestry, Soils & Aquaculture
Animal Science – Zoology, Large/Small Animal, Veterinary Medicine, Aquaculture & Equine Science Student Club: FFA.
CERTIFICATIONS

Art & Digital Design
- SkillsUSA/PrintEd
- Microsoft Office Specialist: Word, Excel, Access, PowerPoint, and Outlook

AgriScience - Greenhouse
- Pesticide Applicator
- Michigan Certified Florist
- Michigan Nurseryman Certification
- Livestock Judging
- Plant Science

Auto Body Repair
- State of Michigan – Auto Body Repair
- ASE National Certification
- SP2 Safety
- Snap-On Electrical

Automotive Technology
- State of Michigan (6 areas)
- ASE National Certification (6 areas)
- Passenger/Light Truck Tire Mount/Demount Certification
- Snap-On Electrical
- 504 Meter Certification
- Career Safe Certification
- SP2 Safety Certification

Computer Technology Management
- CompTIA A+
- CompTIA Network+
- Microsoft Office Specialist: Word, Excel, Access, PowerPoint, and Outlook
- Microsoft Technology Associate Networking Fundamentals
- Microsoft Technology Associate Security Fundamentals
- Microsoft Technology Associate Windows OS Fundamentals
- Microsoft Technology Associate Windows Server Administration Fundamentals
- Microsoft Technology Associate HTML5 Application Development Fundamentals

Construction Technology
- SkyTrak/Rough Terrain Forklifts Certification
- OSHA Safety Certification

Cosmetology
- State Board Examination - Cosmetologist
- ServSafe Certification
- ServSafe Allergen Certification
- ProStart Certification

Diesel Technology
- State of Michigan Heavy Truck Repair (6 areas)
- ASE National Certification (3 areas)
- Snap-On Electrical
- Valvoline Oil Certification
- Career Safe

Electronics
- Mobile Electronics Certified Professional (MECP)
- Electronics Systems Technician (NCCER)

Graphic Communications
- American Screen Printing Association
- SkillsUSA/Advertising Design
- SkillsUSA/Digital File Preparation and Digital File Output
- SkillsUSA/Graphic Communications
- SkillsUSA/Offset Press Operations and Binding and Finishing
- SkillsUSA/Screen Printing
- SkillsUSA/PrintEd

Marketing & Business Management
- National Professional Certificate for Customer Service

Nursing/Health
- First Aid
- CPR/AED Red Cross
- Competency Evaluated Nursing Assistant (CENA)

Professions In Education & Early Childhood
- WorkKeys
- First Aid
- CPR/AED Red Cross
- Child Development Associates (CDA)
- MTTC (Michigan Test for Teacher Certification) – Pre-Test

Welding/Fabrication
- American Welding Society (AWS) National Certification
- Schools Excelling through National Skills Standards Education (SENSE)

STUDENT ORGANIZATIONS

The Tuscola Technology Center provides students with extra educational enrichment and “hands-on” opportunities through clubs and academic games competition. We currently have six student organizations: BPA (Business Professionals of America), DECA, HOSA (Health Occupation Students of America), FFA, SkillsUSA, MITES (Michigan Industrial Technology Education Society).

Student organizations are unique because the activities and competitions relate directly to what students are taught in their program area. Students further develop technical skills and build leadership qualities.

Another great opportunity for students is our NTHS (National Technical Honor Society) and our Student Forum. These clubs offer student experiences that will further develop their career opportunities, leadership/teamwork skills, and personal skills needed by today’s employers.

EMPLOYABILITY SKILLS

The students are exposed to an intensive week of Employability Skills training with their program instructor. During this time, the focus is on preparing students for entry into the workforce. Emphasis is placed on helping students understand the importance of appropriate attire, properly completing an application, handling themselves during an interview and special interview techniques. Students leave with job/interview skills and a completed resume which is kept on file for future needs. The Tech Center provides students with an opportunity to run through two mock interviews at our Annual Interview Day. Over 100 business and industry volunteers serve as interviewers and rate the students on their ability to complete an interview.
HOW TO APPLY
- Contact your high school counselor
- Complete an application to attend the Technology Center
- Return the application to your high school counselor prior to March 1

DID YOU KNOW
- College credit (articulation) may be earned in the majority of Tech Center Programs
- 11th & 12th grade students in Tuscola County may attend
- Eighteen programs are offered for daytime students
- Advisory Committees, composed of people from business and industry, parents, and prior students provide direction for each program
- State and national certification testing is available to students in many programs
- Approximately 800 students attend each year
- Job placement assistance is available to students and graduates
- Approximately 95% of graduates go directly to college and/or work after completing Tech Center training

SERVING NINE LOCAL SCHOOLS
- Akron–Faigrove High School
- Caro High School
- Cass City High School
- Kingston High School
- Mayville High School
- Millington High School
- Reese High School
- Unionville–Sebewaing Area High School
- Vassar High School

COLLEGES WE ARTICULATE WITH:
- Baker College
- Davenport University
- Delta College
- Ferris State University
- Ohio Technical College
- Lansing Community College
- Lincoln Tech
- Mott Community College
- St. Clair Community College
- Universal Technical Institute
- University of Northwestern Ohio

Tuscola Technology Center

Board of Education
Third Monday every month at 7:00pm

James Welke ............................................................ President
Nancy Laethem .......................................................... Vice President
James Brown .............................................................. Secretary
Dean Nichols .............................................................. Treasurer
Charles Squires .......................................................... Trustee

Phone: 989-673-2144     Fax: 989-673-5366
Office Hours: Monday through Friday, 8:00am-4:00pm

MISSION STATEMENT & BELIEFS
A commitment to serve ... a promise to educate.

We Believe:
- We are an extension of the local school district and expand educational services.
- Our programs provide a practical application of academic knowledge.
- Education is a lifelong process; and all are capable of learning and can become employable.
- We promote personal growth and acknowledge individual achievement through job skill training in simulated and actual work environment.
- Input from business in industry is essential in the planning and development of curriculum and selection of equipment, materials and supplies.
- Programs deliver career training and excellence to all area residents using state-of-the-art facilities and equipment.

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, and the Americans with Disabilities Act 1990, it is the policy of the Tuscola Intermediate School District that no person shall, on the basis of religion, race, color, national origin, sex, disability, age, marital status, height, weight, arrest record, and familial status be excluded from participation in, or denied the benefits of, or be subjected to discrimination during any program or activity or employment. Inquiries regarding this policy should be directed to the Tuscola ISD Superintendent, 1385 Cleaver Road, Caro Michigan 48723, (989) 673-2144.