

ADVANCED PHOTOGRAPHY (year-PM)

Prerequisite: Beginning Photography, Grades 11-12

This class will cover all aspects of the photographic world, from traditional black and white fine art prints to digital masterpieces. Students will have the opportunity to express their creative abilities and explore the world of still images. It is designed for students to discover a new outlet for personal expression. Students will learn how to use 35 mm medium format and large format cameras, the chemistry and process of developing this film, as well as the artistic design to create a polished piece of artwork. Most of this equipment has historical value and is rarely used today. We will investigate many alternative processes that can create unique final prints. Students will use a Mac computer lab fully equipped with the Adobe Creative Suite in order to edit, manipulate and enhance digital photographs. This is a product used by photographers around the world. Using this technology in digital photography, students will create work that imitates what can be found in professional portfolios. Students will learn the historical aspects of photography as well as understand the photography industry. It is important that students understand the history of the art, but also have a vision of the future of the photographic world. *Articulation is available with Washtenaw Community College.*

Automotive Technology I: (Year)

This is a course in which the student applies the principles and functions of components as they pertain to automotive systems. The course is divided into three major areas of study, including a light service unit, automotive electrical systems, and braking systems. Included in the light service unit are topics ranging from reference materials and micrometers to basic vehicle systems like cooling, lubrication and wheels and tires. The automotive electrical systems unit includes all aspects of automotive electrical systems from the basic battery, alternator and starter concepts to advanced electrical diagnostics, while the braking systems unit covers all aspects of automotive braking systems, including hydraulic principles, disc and drum braking systems, and anti-lock braking systems. The laboratory portion covers approximately 70 percent of this course. The class is designed to provide the student with relevant and realistic hands-on training for preparation for the automotive servicing field. Students should be able to obtain state mechanic certification in at least two areas of the test categories upon successful completion of the first year program. NATEF certification is available for those students who complete the NATEF curriculum. *Articulation (advanced placement credit) is available with Washtenaw Community College.*

AUTO TECHNOLOGY II (year-early start)

Prerequisite: Auto Technology I

This course covers an advanced study of topics covered in the prerequisite course, plus additional instruction in five areas of study. The major areas of concentration are steering & suspension, engine performance & drivability, manual transmission & drive axle, automatic transmission and heating and air-conditioning. The steering & suspension unit covers many aspects of the current vehicle steering and suspension designs. The engine performance unit covers numerous topics including electronic fuel injection, computerized engine control; exhaust gas emission testing/analysis and ignition systems. The manual and automatic transmission units' are centered on maintenance and light repair. The students will be exposed to simple diagnosis and repair of the heating and air conditioning system. "State of the Art" diagnostic equipment will be emphasized throughout all units. This course is exclusively designed to provide the student with relevant and realistic "hands-on" training for preparation into the automotive servicing field, as well as establishing a foundation for possible careers as a Product Testing Technician, Dynamometer Technician, Service Manager, Parts Manager, Factory Service Representative and Engineering Technician. Students will have the opportunity to take the State mechanic certification exams at the conclusion of the course. Internships are available through the A-YES Program. *Articulation is available with Washtenaw Community College.*

BOTANY - (year) - Plant Systems and Turf Science

Prerequisite: Grades 11-12

An introduction to landscape design, construction, supplies, equipment, management and safety are covered. Students care for plants in the hydroponic lab, school greenhouse and work outdoors in the areas of school landscape, crop, sports fields, forest and wetlands. This course will provide students with a foundation of botanical studies in agricultural crops, horticultural plants and forestry. Topics include classification, selection, anatomy, physiology, genetics, breeding, nutrition, health, judging of plants and plant products, fundamentals of soil science, hydroponics, plant pests, meeting human needs with plants and their importance to the Michigan economy. This course can be retaken as an Advanced Ag Project/Independent Research class during the same time slot. Natural resources, alternative energy systems in bio-fuels, methane/natural gas, solar, wind, wave and fuel cell technology will be introduced. Membership and participation in activities of the National FFA Student Organization, leadership, communication, teamwork skills, and other personal development skills are part of all natural resources & agriscience classes. Students apply hands-on skills outside of the classroom to work based and research type supervised career experience projects as part of their evaluation and grade. Students have the opportunity to compete, travel, and win cash awards, recognition and scholarships in FFA.

BUILDING TRADES (year-AM/PM) – On-Site

Prerequisite: Grades 11-12

The Building Trades program prepares a student for employment in the construction industry. There is much for the student to learn in the field, and the immense diversity of career opportunities makes this industry one of the most interesting and challenging. The Building Trades class prepares the student with entry-level skills needed for employment through the actual construction of a house. The specific areas of study include: site preparation, drywall, masonry, finish carpentry, rough carpentry, painting and wall covering, heating, plumbing, construction technique, wiring, insulation, management skills, and employability skills. A solid foundation in math skills are needed, geometry is recommended. *Articulation is available with Washtenaw Community College.*

CAREERS IN EDUCATION (year-AM/PM)

Prerequisite: Grades 11- 12, Application acceptance

Cadet Teaching is for students who are interested in exploring teaching as a profession. It provides students an opportunity to get hands-on experience in the classroom before entering a teaching program in college. This experience enables students to gain knowledge and an understanding of the teaching profession. This placement will aid in the career decision making process. Placements for cadet teaching field experience are made with a professional teacher in the student's home district. Students will receive a grade based on supervising teacher evaluations, on-site observation, related assignments and a classroom teaching portfolio. *Articulation is available with Mott Community College.*

COMPUTER AIDED DESIGN (year-PM)

Prerequisite: Seniors 1st priority/Juniors (w/ or w/o Machine Tool)

This program offers training in computer aided drafting (CAD) in regards to the fields of Engineering or Architecture. Students will gain an understanding of CAD, from basic measurement to 3D solid modeling and photo-realistic rendering, before they will have the opportunity to explore the design fields of Engineering and Architecture as they see fit. Curriculum will be tailored to individual student's skill level and interests using the most current AutoDesk software's (AutoCAD, Inventor, and Revit). In addition, students will be given the opportunity to rapid prototype (3D print) parts or build architectural models. Students will also have the opportunity to compete at the SkillsUSA and MITES competitions. This course will prepare students for engineering/architectural curriculum at the post-secondary level, and articulation agreements exist that allow college credits to be earned at certain colleges and universities. Students completing the course may find employment in entry level positions as draftsmen, architects, or an engineering assistant. *Articulation is available with Washtenaw Community College.*

Computer Integrated Engineering & Manufacturing (CAD/CNC) (year-AM)

Prerequisite: Grades 11-12

This program offers training in multiple methods of manufacturing. Students will learn how to produce products using manual mills and lathes, computer numerical control (CNC) mill and lathe machines, as well as rapid prototyping on a 3D printer. Students will learn to use problem solving skills to create models using AutoDesk (AutoCAD and Inventor) software, create toolpath programs/code using MasterCAM software, and master machining skills as they relate to manual machining, CNC machining, and 3D printing. The course will also stress the importance of shop safety, the design process in regards to engineering, blueprint reading, and measurement with precision tools. Enrolled students will have the opportunity to compete at SkillsUSA and MITES competitions. This course will prepare students for manufacturing curriculum at the post-secondary level, and articulation agreements exist that allow college credits to be earned at certain colleges and universities. Students completing the course may find entry level employment in the fields of machining/programming and engineering technology.

Articulation is available with Washtenaw Community College.

COMPUTER SERVICING & ASSOCIATED ELECTRONICS (year-AM)

Prerequisite: Grades 11-12 and Algebra

This class is designed to provide the student with a foundation in basic electronics with concentration in computer systems construction, repair, troubleshooting and upgrading. Basic electrical fundamentals will be covered including DC circuitry, reading schematic drawings, wiring and soldering. The focus of the class will be in preparing students to be Computer Repair Technicians. Computer Technicians are in high demand and are responsible for troubleshooting and repairing computers. Upgrading and total construction of PC's will be experienced in this class, following the industry standard of A+ computer repair certification standards. Students that excel will be prepared for A+ computer certification testing.

Articulation is available with Washtenaw Community College.

COSMETOLOGY (2 years + 1 summer) - HVBA

Prerequisite: Grades 11-12

This program is open only to 11th and 12th grade students who have made a serious commitment to become a professional Cosmetologist. Limited space will be available for seniors who are willing to commit to a year beyond graduation to complete the program. The Cosmetology program offered through the South and West Washtenaw Consortium prepares a student for employment in one of our nation's largest personal service industries. The Cosmetology program prepares a student with the entry-level skills needed for employment in the beauty trades. Upon completion of the 1500 hours combined theory and clinical instruction the student will be qualified to take the Michigan State Board of Cosmetology exam. Class work includes the following areas of study: sanitation, bacteriology, cosmetology laws and rules, personal hygiene, hairshaping, hair dressing, fingerwaving, hair coloring, chemical reconstruction, applied anatomy, physiology and histology of the human head, hands, nails and skin, applied chemistry as related to skin, hair and nails, manicuring, facials, salon management and employability skills. Students must purchase required uniforms and arrange their own transportation to the West Ann Arbor location. There will be additional fees for students starting in their senior year. A counselor can provide further information and the required application forms. *Articulation is available with Mott Community College.*

CULINARY ARTS (Hospitality/Food Service) (year-AM/PM)

Prerequisite: Grades 11-12

This course is designed to introduce students to the hospitality industry, which includes Culinary Arts, Food Service, Hotel/Motel & Travel/Tourism, with a major focus on Culinary Arts. Students will learn and apply principles of safety, sanitation and food preparation. They will operate "The Hive", our student operated restaurant, as well as do catering and special projects. In addition, they will learn and practice employability skills, goal setting, and problem solving. They will apply math and communication skills to work situations. Students will rotate through various kitchen stations including: broil cook, fry cook, pantry cook and prep cook. Students may take this class as a junior or senior or both. Students have the opportunity to earn a nationally recognized certificate through the National Restaurant Association with ServSafe and ProStart programs. *Articulation (up to 9 credits) is available at Ferris State University, Grand Rapids Community College, Henry Ford Community College, Lake Michigan College, Michigan State University, Washtenaw Community College, West Shore Community College, The Art Institutes, Cornell University, the Culinary Institutes of America, Kendall College, New England Culinary Institutes, Johnson and Wales University, and other colleges and universities across the US.*



GRAPHX (year, 2nd & 3rd hour) - Dexter High School

Prerequisite: Grades 11-12

GraphX Academy provides skills and experiences for the student interested in graphic arts/communications as a possible career or as background for advanced education after high school. GraphX students experience on-site visits throughout the school year to local printing companies where they are exposed to all areas of the company. This gives students the opportunity to experience the latest technology and employability skills needed to be successful in a graphic arts/communications career. The school-to-work transition is a major focus of the GraphX Academy. *Articulation is available with Ferris State University and Washtenaw Community College.*

HEALTH SCIENCE TECHNOLOGY - CHS/SHS/On Site

(year + 1 additional period during 3rd tri for Chelsea, Dexter, Manchester and Saline students; Lincoln and Milan students additional period will be during 2nd semester)

Prerequisite: Grades 11-12

Health Sciences Technology has been designed for eleventh and twelfth grade students interested in all levels of health careers at the professional and paraprofessional levels. Areas of study include anatomy and physiology, disease process, medical ethics, communications, medical terminology, career exploration and trends in healthcare. Students will develop skills in CPR, vital signs, safety and patient care skills that apply to multiple health fields, such as nursing, medicine, physical therapy, x-ray tech and more. Students will gain practical experiences in hospitals, long-term health facilities and professional working environments of the health career being considered. College bound students considering a career in the health field would benefit greatly from this course by determining their interest and abilities and experiencing it firsthand. Students who complete all the requirements are eligible to take the State of Michigan tests to become Certified Nursing Assistant (CNA). The CNA certificate is required for the WCC Nursing Program. *Articulation is available with Washtenaw Community College and Ferris State University.*

HEALTH SCIENCES TECHNOLOGY INTERNSHIP (year)

Prerequisite: Health Sciences Technology; Permission of Instructor

Students who successfully complete the 1st year of Health Science as a junior may be eligible to apply for a 2nd year of Health Science in their senior year.

MARKETING I (year-AM/PM)

Prerequisite: Grades 11-12

This class is open to students interested in marketing, management or entrepreneurship. Students will learn vital skills necessary to be successful in any career they choose. The class focuses on marketing concepts, salesmanship, interviewing, merchandising, management, retailing, promotion and much more. The students will also be a part of the international association of marketing students, called DECA. As members of DECA, students can compete in areas related to marketing, management and entrepreneurship at the district, state and/or international levels. DECA also offers opportunities for students to participate in the development of social intelligence, leadership and community service. *Articulation is available with Washtenaw Community College.*

MARKETING II: (year)

Prerequisite: Marketing I

Students that enroll in Marketing II are of senior status and have successfully completed the Marketing I program as a junior. Marketing II students will mainly focus on the running of the school store. All concepts of marketing learned in the previous year will be employed. Tasks that will be relearned and mastered are: knowing your target market, product selection for that market, pricing and financial reports involved in retailing, inventory management, promotions and advertising, selling techniques, customer service, and other skills needed to run a successful retail business. Students will gain work experience in the school store, called "The Edge", which includes ordering, pricing, displaying and promoting products, as well as conducting market surveys. Each student will be given the opportunity to manage the store as a cashier or salesperson. Other activities for Marketing II students will include computer simulations to expose students to experiences beyond the school store and classroom, related field trips, and guest speakers. There will also be an opportunity for students to fully participate in the DECA competitions offered through the Marketing program. *Articulation is available with Washtenaw Community College.*

VIDEO NEWS PRODUCTION (year-AM)

Prerequisite: Grades 11-12

The Video News Production class is an in-depth look at broadcast video and school news through digital media production. Students will learn the techniques needed to write, produce and output news stories and video media that impact your school and community. The broadcast aspect of news media is met by training students in the school broadcast studio and with online learning experiences in video production projects. Each student will be exposed to the latest broadcasting technology and techniques as they produce a weekly show called SHS Today. This show is aired every Friday throughout the school, local SCTN channel 18 and the web. Students will also be able to produce special interest shows working hand-in-hand with local community members. *Articulation is available with Washtenaw Community College.*

VIDEO NEWS PRODUCTION - (year-PM)

Prerequisite: Video Production 1 and out of class taping availability

Video News Production - is an in-depth look at broadcast video and school event productions. It is a part of the South and West Washtenaw Consortium. Students will learn the techniques needed to shoot, edit, & produce LIVE events that impact their school and community. Each student will be exposed to the latest broadcasting technology and techniques as they produce weekly events such as Sports, Plays, Musicals, Concerts, and Special Shows. Students will work hand-in-hand with the athletic department to produce promotional and ESPN style material for the school as well as many other special projects throughout the year.

VISUAL IMAGING TECHNOLOGY (year-AM)

Prerequisite: Grades 11-12

VIT is about the design and production of media. VIT focuses on two major types of media: print media and electronic media. Print media includes such things as posters, CD covers, business cards, t-shirts and many other products. Electronic media includes digital video and audio, digital photography, animation and flash applications for the Web. What's common between print and electronic media can be summed up this way, it's all digital. Given the dynamic nature and fluidity of the visual imaging industry, one of the primary goals of the class is to give students a broad range of experience which encompasses both print and electronic media. VIT is a hands-on class in which students learn about each stage of the media production process and then use those tools to complete various media production projects and assignments. VIT prepares students for a career path within the visual imaging industry. Going into a college level program or directly into the workforce during/after high school are viable career path options for aspiring VIT students. *Articulation is available with Washtenaw Community College.*

METAL PROCESSING AND WELDING TECHNOLOGY (year-AM/PM)

Prerequisite: Grades 11-12

The Metal Processing and Welding Technology course prepares students for entry level employment in the welding and fabrication industry. Skill development in the joining processes of oxyacetylene welding, shielded metal arc welding, gas metal arc welding and gas tungsten arc welding will be developed, along with an introduction to brazing. Fabrication processes including shearing, bending, burning, and plasma-arc cutting, basic power tool operation including drill press, grinding and finishing through the development and construction of student projects. In addition, welding metallurgy and blueprint reading will be covered. Successful completion of this course will prepare the student for entry into industry or college for advanced study. *Students that excel may receive articulated college credits from Washtenaw Community College for this class and be prepared for the AWS welding certification test.*



ZOOLOGY (year-AM/PM) - Animal Systems & Pre-Veterinary Science

Prerequisite: Grades 11-12

This advanced year-long course is for students considering an animal industry career as a veterinarian, vet technician, horse trainer, animal groomer, pet store manager, game warden, rancher, farm manager or other careers working with and caring for farm or companion animals in the future. This course will provide students with a foundation in pre-veterinary zoology studies in the animal species of livestock (food animals) and companion animals (horses, dogs, cats). Topics include classification, selection, anatomy, physiology, genetics, breeding, behavior, nutrition, health, judging and showing of animals and animal products, grooming, aquaculture, habitat management, wildlife conservation and the importance of hunting, trapping and fishing to the Michigan economy. Students grow broiler chickens and fish in the lab, do outdoor studies of the habitat of animal species in the forest, field and wetland areas of the school campus. This course can be retaken as an Advanced Ag Projects/Independent Research class during the same time slot. Membership and participation in activities of the National FFA Student Organization, leadership, communication, teamwork skills, and other personal development skills, are part of all natural resources & agriscience classes. Students apply hands-on skills outside of the classroom to work based and research type supervised career experience projects as part of their evaluation and grade. Students have the opportunity to compete, travel, and win cash awards, recognition and scholarships in FFA.

CO-OPERATIVE EDUCATION (1/2 to 1 1/2 credits)

Prerequisite: Open to all seniors, or 2nd trimester juniors who are currently enrolled in a related CTE class.

This program provides on-the-job training in Career & Technical Education (CTE) programs such as Building Trades, Business Technology, Early Childhood Education, Health Sciences Technology, Hospitality/Culinary Arts, Marketing and several trade and industrial occupations. Students must be covered under employer's Workman's Compensation and General Liability insurance policies, and work a minimum of 10 hours per week for credit to be awarded. Students will be evaluated every six weeks by their supervisor. Submission of timesheet and meeting with the instructor will occur on a weekly basis. Students may register for After School Co-op if schedule does not afford the ability for time release during the normal school day. One half (1/2) credit is issued per trimester for After School Co-op.



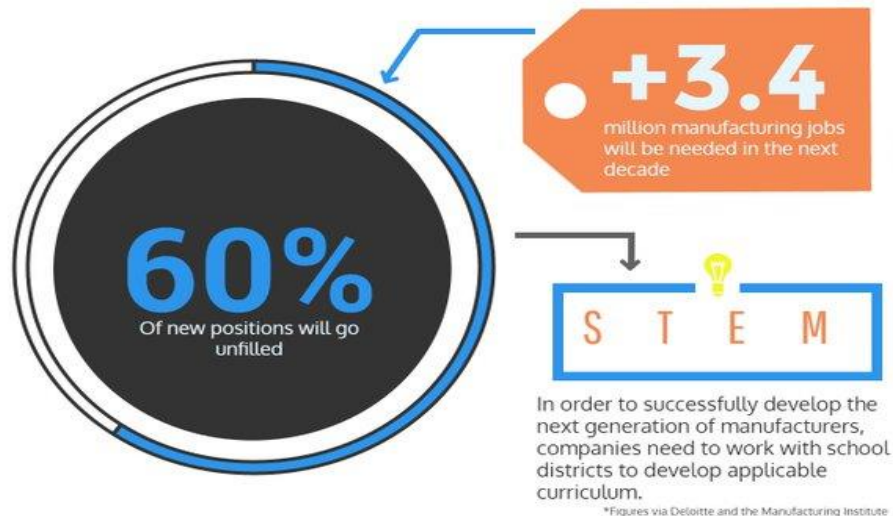
The Career & Technical Education Center (CTE Center)

Located at Saline High School - Room B223

The CTE Center is available to serve the needs of all students enrolled in the Career & Technical Education programs offered by the South and West Washtenaw Consortium. The Center provides students with a centrally located facility where they can receive assistance in developing specific academic skills related to their career oriented classes, in careful career planning, and in job placement. The Center also provides student assessment services and laboratory experiences related to individual career and technical needs. The goal of the CTE Center is to help all Career & Technical Education students attain their career objectives.

BATTLING THE SKILLS GAP

DEVELOPING JOB-READY WORKERS



Mission Statement

We, the member districts as the South & West Washtenaw Consortium, shall best educate students together in areas individual districts cannot do as well alone. The Career and Technical Education Component of the South & West Washtenaw Consortium empowers its students to be productive members of a changing technological world. The students are provided with the knowledge necessary to achieve the requisite skills, positive attitudes and work habits to meet those goals.

For More Information Contact:

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It is the policy of the South and West Washtenaw Consortium not to discriminate on the basis of race, color, national origin or ancestry, gender, age, disability, height, weight, religion, language or marital status in any of its programs, activities or employment. In addition, arrangements can be made to ensure that the lack of English language proficiency is not a barrier to admission or participation.

