



Chippewa Valley Schools  
19120 Cass Avenue  
Clinton Township, MI 48038

# Warren Consolidated Schools

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## **Business Technology Management**

This Virtual, hands on, student lead program will give you experience in a simulated business environment. A multifaceted business operation will take place each day within this business classroom. Students will take part in all of the steps included in a small business startup. Accounting, Administration, Purchasing, Sales and Marketing, Human Resources, Graphics and Design are departments working daily establishing a successful "Virtual Business", including financial and operational management, ethical responsibilities of business operations. This program will take you on an "out of the box" learning adventure thru field trips, leadership competitions and trade show events.

## **Integrated Technology Specialist**

This course is designed to prepare students for 21st Century business skills. Emphasis will be placed on practical application of business fundamentals. Business communications, beginning budgeting, career planning, business reports and web design will be the focus of this dynamic core business program.

## **Business Externship Related**

This is a required class for the Business Externship program. Students will become competent in document processing, office procedures and management, and human relation skills. In this course, students will use an on-line learning system for lecture notes, exercises, tutorials, on-line discussions, and assessments with on-line help and email available. Utilizing the on-line discussion board, students will share work experiences and common on-the-job concerns with their instructor and classmates.

## **Business Office Externship**

Students are placed and monitored by the externship coordinator in an approved office environment in the community where they experience on-the-job training as a paid employee. A maximum of two credits may be earned for actual hours worked in a business office.

## **Web Design 1,2,3 &4**

Students learn HTML, XHTML, Dreamweaver, Photoshop, and Flash through the Adobe Premium Design Suite or Macromedia Studio 8. Students will design, create, and maintain the school web site for the community,. In this course, students will use an on-line learning system for lecture notes, exercises, on-line discussions, and assessments with on- line help and email available. Students in Web Design 2, 3, &4 will receive further training in HTML, JavaScript, and Flash. Web 2 students may also have the opportunity to enter contests for their web design work. Students completing Web Design 1 & 2 may qualify for college articulation credits.

## **Accounting 1 and 2**

This course will provide students with the manual and computerized accounting skills used in a small business, organized as a proprietorship or a corporation. Students will complete realistic accounting simulations and perform duties that assist the accountant in recording, sorting, and filing financial data. Manual and computerized competency will be exhibited in journalizing and posting transactions; reconciling a bank statement; completing a worksheet; creating a trial balance, balance sheet, and income statement; adjusting and closing entries; and implementing petty cash and payroll procedures. Students completing Accounting 1 and 2 may qualify for college articulation credits. In this course, students will use an on-line learning system for lecture notes, exercises, tutorials, on-line discussions, and assessments with on-line help and email available. Accounting 2 Students will expand their knowledge of manual and computerized accounting procedures. Decision-making skills in budgeting, departmental accounting systems, payroll procedures, and simulated accounting experiences will be emphasized. In this course, students will use an on-line learning system for lecture notes, exercises, tutorials, on-line discussions, and assessments with on-line help and email available. Students completing Accounting 1 and 2 may qualify for college articulation credits.

## **Entrepreneurship**

This course forces on the planning, owning, and running of small businesses. Emphasis is placed on marketing a small business, the legal requirements of owning and operating small businesses, and career opportunities within the field of entrepreneurship. Students completing Entrepreneurship, Marketing 1, and Marketing 2 may qualify for college articulation credits.

## **Marketing 1 and 2**

This course provides a foundation in basic principles and concepts of marketing, as well as retail merchandising. Students will develop skills in promotion, planning and budgeting, the nature and scope of selling, economic systems, and career-seeking skills. Students completing Entrepreneurship, Marketing 1 and 2 may qualify for college articulation credits. Marketing 2 This is a required course for students in the Marketing Externship. Topics covered: Employability Skills, Sales & Management, Inventory, Marketing Research, Finance and Ownership. The goal of the course is to help students

develop the skills necessary to become upwardly mobile as well as define career goals and startup requirements should they want to start their own business venture. Students completing Entrepreneurship or Marketing 1 and Marketing 2 may qualify for college articulation credits at Macomb County Community College, Baker University, or Ferris State University.

## **Marketing Externship**

Students work part-time in a retail/marketing business. The student worker is periodically evaluated by their supervisor in cooperation with the externship coordinator. The externship experience is an earn-while-you-learn part of the marketing program.

## **Global Financial Citizenship**

Global Financial Citizenship is designed to teach real world applications and increase financial literacy. The topics will focus on employability in a global economy, career development, budgeting, money management, and credit management. Students will develop skills in pursuing career consumers. Other topics include, college planning, saving and investing, as well as consumer rights and responsibilities. Students will participate in a Capstone project centered on successful management of a virtual business, while learning how to be a global financial citizen.

## **Business Law**

Business law is a one-semester course designed for both personal and business use. Topics include development of law, protecting one's rights, functions of courts, defective agreements, and consideration of business contracts. In this course, students will use an on-line learning system for lecture notes, exercise, tutorials, on-line discussions and assessments with on-line help and email available

## **Foods & Nutrition 1 and 2**

Students will learn about food management, preparation, measurements, selection, storage, and serving foods leading to more advanced skills and concepts. Students will discover the relationship of nutritious food and a healthy lifestyle. Foods & Nutrition 2 This course explores the development of skills in advanced food preparation creating healthy snacks, meals, and introducing students to culture and cuisine. Dietary guideline concepts will help influence students to make healthy choices.

## **Family & Personal Living**

Emphasis of this course is placed on the individual and his or her relationships with others. Areas covered are interpersonal skills, family structures and their impact on society, parental changes that impact family, and the need of family to manage and adapt to change. The use of personal and community resources to resolve family and personal conflict is utilized.

## **Consumer Management**

Knowing how to use one's paycheck to buy/rent a residence, finance a vehicle, purchase necessities, and save money is the key focus of the management course. Making one's own decisions on banking, insurance, food purchases, recreation, and investments will also be explored. The three S's: spend, save, and survive are the keys to consumer management.

## **Trade & Industrial Externship**

This course provides students with actual 'on-the-job' work experience with pay as they learn. Students will work with the 'professionals' in their field of training and will be periodically evaluated by the employer and the coordinator.

## **Auto Tech 1 and 2**

This is a two-hour Career Tech Education program. This course covers the basic principles on which the automobile engine and drive train operate. Auto Tech 1 concentrates on brakes, steering and suspension. This course allows the student with vocational interest in the automotive field to become familiar with some of the elementary service procedures. Students, upon successful completion of Auto Tech 1, are eligible to receive up to three (3) hours of college credit in Macomb Community College Automotive Program. Auto Tech 2 This is a two-hour Career Tech Education program. The laboratory work allows the student to practice many of the major auto service operations. Auto Tech 2 concentrates on electrical systems, and engine performance. Students, upon successful completion of this course, are eligible to receive up to three (3) hours of college credit in the Macomb Community College Automotive program. Students may also receive one year's fieldwork experience toward ASE Certification.

## **Biomedical Machining 1 and 2**

This is an entry level, project based course where students will learn the art and science of precision manufacturing, with a focus on medical device technologies. Upon completion of this course, the student will have the knowledge and skills to create products that start as ideas and raw materials and result in precision assemblies that will improve the quality of one's life. Students will learn the safe and effective use of hand and machine tools, including the programming and operation of CNC lathes and mills. Students will also develop excellent leadership and problem solving skills. Career paths are biomedical engineering, orthotics and prosthetics, precision CNC manufacturing, sales, entrepreneurship, and related service industries. Biomedical Machining 2 Biomedical Engineering 2 is a course that provides students with an opportunity to advance their skills for the medical manufacturing and other related careers of the 21st century. Students will have the opportunity to hone their skills in a project-based setting, while working in a team-based environment. Students will learn skills in part and design verification. This course will prepare the student for entry level employment and/or enrollment in a college/university program. Students may qualify for dual enrollment with MCC. Math credit may be earned for the fourth-year graduation

requirement if taken as a senior. Articulation Agreement: Macomb Community College up to 12 credits

## **Building Trades 1 and 2**

This course is designed to give the student a foundation in the fundamental skills needed for careers in the residential construction industry. Industry related vocabulary, scale reading, applying construction calculations, measuring, tools and their uses and construction procedures are just some of the topics covered in the course. From basic hand tools to modern power equipment, students will learn to become proficient with all of their uses and potential. Students will learn in a well-equipped, modern shop at the Career Prep Center. They will complete a wide variety of projects that challenge the student in a real-world atmosphere. Projects include rough framing of structures and roofs, application of siding, installation of fixtures, tile installation, drywall, plumbing, and electrical. Students will also work with state-of-the-art, computerized heavy equipment simulators. The learning experience develops confidence and skills in a supportive and challenging environment. Building Trades 2 The Building Trades 2 program offers students a unique opportunity to apply skills learned in Building Trades 1 towards construction of a residential, single family home. They will construct the full scale home, from start to finish, in a local subdivision. The course emphasizes the skills necessary for a successful career in the residential construction industry: print reading, carpentry, electrical, drywall, tile installation, flooring, painting, window installation, interior finish woodworking, and plumbing skills. Upon successful completion of this course, students are ready to enter the residential construction industry in entry level positions. Articulation Agreements(s): • Macomb Community College up to 15 credits • Detroit Carpenters Apprentice School: Length of apprenticeship shortened • Detroit Carpenters Apprentice School: Test Out of blueprint reading and Math

## **Collision Repair Technology 1 and 2**

This National Automotive Technical Education Foundation (NATEF) certified program introduces students to fundamental skills in metalworking, painting, body repair, MIG welding and shop safety using hands-on experience in a real-world shop setting. The first-year emphasis is on building hours of experience in each skill necessary to become a successful collision repair technician. The program also develops students' professional skills, with emphasis on quality, motivation, attitude, work ethic and respect for others in a work setting. Collision Repair Technology 2 Students continue to build and refine advanced skills in collision repair in a hands-on shop setting, with additional introductions to automotive frame technology, estimating and customer service. Articulation Agreement(s): • Certification credit for one year of the two years of work experience required for Automotive Service Excellence (A.S.E.) testing • Up to 8 credit hours are transferable into the Baker College Collision Repair Technology program • Prepares students for entry into on-the-job training programs with local employers and/or Collision Repair Technology programs at OCC, Baker College and other post-secondary programs, supported by strong inter-educational and professional relationships between CPC and local educators and employers

## **Computer Information Technology 1 and 2**

If you love computers, this program is for you! This comprehensive program consists of two classes that give a well-rounded background in the major areas of Information Technology (IT). Students are immersed into the world of current technology providing them the opportunity to apply their skill-set in programming and networking in order to develop business related solutions. Students rotate through the following courses: • Programming/Web Design oVisual Basic, C++, Ubuntu Linux, Database Development & Management, Query Language, HTML, Dreamweaver, JavaScript, Introduction to Fanuc Robotics applications and programming • Mobile iOS & Android App & Game Development (Programming) • Leading industry robotics applications & and programming • Networking & Project Management Skills Online Lab Simulations

**Computer Information Technology 2** Second-year students will advance their knowledge in: • Advanced Programming/Web Design Visual Basic, Database Development & Management, Query Language, C++, Java, Python, Ubuntu Linux/Pear, HTML, Dreamweaver, Javascript • Advanced Fanuc Robotics applications & programming including: integrated vision systems(iRVision), logic controller programming and ROBOGUIDE simulation software. Second year students have an opportunity to obtain CERT Robotics certification • Mobile iOS & Android App &Game Development (Programming) • Networking & Project Management Skills • Online Lab Simulations

Advanced students will assume leadership roles, with a concentration on earning certifications while taking their skills to the next level by working on special projects. Second year students will prepare for certification, employment, and/or advanced post-secondary training.

## **Culinary Arts 1 and 2**

First year culinary student learning will encompass the world of food. Students will learn the basics of the culinary world such as knife skills, baking, and restaurant operations. Students of the culinary program will learn all facets of the many different areas of the food service business. The CPC Grille is a student run restaurant that is open to the public for the students to practice their crafts with real life experiences. During the first year experience, students will be exposed to cutting edge restaurant equipment, such as ice-cream machines, blast chillers, and a printer that uses edible ink. The curriculum that is used in the program is sponsored by the National Restaurant Association Pro-Start. Culinary Arts 2 Second year students will learn more advanced culinary techniques. The students will have the chance to assist the Chef in teaching some of the basic skills to other students in the program. Second year students will develop and construct the necessary menu's for the Grille, and the many different banquet functions that the Career Prep Center Grille provides to the community at large. During the second year experience, students will have the opportunity to develop their personal business that is run inside the classroom. Some of the examples include personal cupcakes, gourmet popcorn, ice cream land, and many others. During this experience the students learn how to develop a business plan for opening their own business in their future. Certifications: Serve Safe Workers Certificate Articulation Agreement(s): • Macomb Community College • Culinary Institute of Michigan: Muskegon and Port Huron Campus • Art Institute of Novi • Culinary Institute of America

## **Electronics Technology 1 and 2**

This course is designed to provide students with a foundation in the basic fundamentals of electricity and electronics. Students will be introduced to DC and AC currents, basic concepts relating to atom theory, instrumentation, circuit materials, energy, sources of electricity, series circuits, parallel circuits, combination circuits, magnetism, transformers, inductance, capacitance, semiconductors, integrated circuits and AM/FM radio. Students will have the opportunity to learn in a hands-on lab where they will complete projects such as burglar alarms, automatic night lights, moisture detectors, electric organs, and railroad lights. At the end of the course, AM/FM broadcast technologies are studied and each student will build their very own AM/FM radios. Math related credit may be earned for the fourth year graduation requirement if taken as a senior. Electronics Technology 2 Electronics Technology 2 is a course designed to introduce students to Mechatronics – a multidisciplinary field of engineering that combines mechanics, electronics, computer programming, systems and control engineering, sensors, optical engineering, and robotics. Knowledge in these disciplines allows a Mechatronics engineer to develop, design, improve, implement and maintain high-tech products, services and processes in mechanical, electronic and computer-related businesses. The products and processes may be as common as a smarter, more efficient washing machine or as innovative as a fully automated robotic assembly line for mass production. Students will learn by working with electronics, pneumatics, hydraulics, computer-generated lessons with hands-on learning in a state-of-the-art lab. Math related credit may be earned for the fourth year graduation requirement if taken as a senior. Articulation Agreement(s): • Macomb Community College: Up to 14 credits • (Dual Enrollment Math Credits): 4 credits • Baker College; 20 credits • Davenport University: 17 credits

## **Health Science 1 and 2**

For any student who has dreams of being a doctor, vet, nurse, physical therapist or a variety of other exciting health professional careers. This class is a great match to help you achieve your dreams and earn a science credit. Certifications: American Heart Association, Adult HeartSaver CPR AED American Heart Association, HeartSaver Bloodborne Pathogens CareerSafe, OSHA Safety Training Health Science 2 – Hospital Internship If you dream of being a healthcare professional, this class is for you! Health Science Internship is a fun-filled, action-packed second-year, hospital-based program (taken only after successful completion of Health Science 1) in which students spend three days per week working with patients at St. John Hospital Macomb-Oakland. Students participate in exciting, year-long teambuilding exercises in the classroom. Interesting class lectures on various topics (including: First Aid, Safety, Gerontology, and Medical Math) are combined with hands-on activities and work skills gained from the hospital experience to allow students to become productive members of the healthcare team. If eligible, students may dual enroll at Baker College for Algebra I (for both math and college credits. Certifications: BLS for Healthcare Providers; (American Heart Association) Heartsaver First Aid; (American Heart Association) National Healthcare Foundations Skills Assessment

## **Health Science Year 2**

Second-year students will learn advanced skills necessary to work in multiple areas of health care. Classroom modules will introduce students to dental diagnostics, sports medicine, physical therapy, radiology, veterinary science, and pharmacology. This course will include placement in a community-based health care facility. Explorations attend a career based visit to the Detroit Zoo and Leader Dogs for the Blind. There are other opportunities throughout the year to experience field volunteerism at retirement homes, skilled nursing facilities, animal hospitals and physical therapy outpatient clinics. Students will also visit Baker College to gather more information on health and human service programs available. If eligible, students may dual enroll at Baker College for Algebra I, for both math and college credits).

## **Dental Science 1 & Dental Science 2 (2nd year)**

Are you interested in a dental career such as a dentist, dental hygienist, dental assistant or a dental laboratory technician? Students will learn basic dental skills and knowledge to work in a dental office or for continuing college dental programs after high school. The study of anatomy and physiology provides the knowledge needed to support all dental and health careers. Certifications: • American Heart Association Adult Heart Saver CPR AED • OSHA Safety Training

## **Emergency Medical Technician (Basic)**

EMT is a second-year program that will cover the care and treatment of critically ill and injured patients in an emergency setting. Students will acquire a working knowledge of practices and procedures in the field of emergency care, such as patient assessment, vital signs, splinting, bandaging, child birth, and treatment of burns and shock. Students who want to be eligible for the National Registry Exam will be responsible for completing unpaid clinical hours at designated sites after school. A college level senior research project is required. Students will not have to repeat the Basic EMT course to go on to Specialist or Paramedic course at various colleges. Certifications: EMT National Registry Examination Eligible (upon successful completion of course and clinical requirements and Sate test) Basic Life Support for Healthcare Providers (CPR) American Heart Association

## **Network Administration 1 and 2**

This is a comprehensive, hands-on course in which students learn networking skills and Workstation (Windows 7 & 8) and Server 2008 & 2012 Management Skills. Students will also learn to become effective cyber crime investigators. The course examines the basic steps required in hardware identification, rules of electronic evidence, network investigation, and case management and intrusion detection. Network Administration 2 This course addresses the comprehension and application of computer forensics investigations, using Workstation (Windows 7 & 8) and Server 2008 & 2012 Management Skills. Students will evaluate and synthesize technical and legal issues in relation to digital evidence,. Investigative software tools are used to analyze seized electronic media. Advanced Fanuc Robotics applications and

programming including: integrated vision systems (irVision), logiccontroller programming, and ROBOGUIDE simulation software. Second year students have an opportunity to obtain CERT Robotics certification. Articulation Agreement(s): • Davenport University up to 29 credits • Macomb Community College 12 credits • Baker College 32 credits • Eastern Michigan University 6 credits

## **Pre-Engineering & Computer-Aided Design 1 (CAD1) and Design 2 (CAD 2)**

This course is designed to provide students with a foundation in the basic skills needed for success in modern engineering and design careers. Students will use AutoCAD (Automated Computer-Aided Design) and SolidWorks in the creation of engineering drawings and 3D geometry while learning the product development cycle. Instruction will be given through a combination of demonstration and hands-on engineering projects. Students will be introduced to renewable and sustainable energy technologies through hands-on projects and experiments. Math related credit may be earned for the fourth year graduation requirement if taken as a senior. Pre-Engineering & Computer-Aided Design 2 (CAD2) This course is designed to provide students with the opportunity to advance their skills for success in modern engineering and design careers in a project based, pre-engineering setting. Students will participate in real-world learning through participation in engineering competitions, hands-on engineering and projects and experiments, and product development. Areas of study will include: aeronautics, fluid dynamics, product development and packaging, manufacturing materials and processes, rapid proto-typing, research and development, and advanced computer-aided design. Students will learn to use CREO Elements Pro engineering software.

## **Visual Imaging & Print Tech 1 and 2**

Visual Imaging and Print Tech (VIPT) is a hands on program focusing on foundational skills in creative digital image development and production to apply to a wide variety of related careers. This class is broken into two major areas: graphic design for print and digital media offset printing. In addition, special projects will include video production and editing, illustration, photography, vinyl graphics and design for web. Visual Imaging & Print Tech 2 With skills learned in the first year program, students will go further in depth into the career of VIPT. Students in the second year program will have hands on experiences with actual clients and be expected to meet deadlines. All second year students will complete an on-line portfolio which will be a valuable tool in applying to college, or obtaining an entry level position in the industry. The goal of the second year program is to have it be an intensified concentration into the specific career pathways in the field of graphic design.