



Chippewa Valley Schools  
19120 Cass Avenue  
Clinton Township, MI 48038

# Chippewa Valley Schools

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## **AUTOMOTIVE TECHNOLOGY I and II**

This course is designed for students with mechanical ability and a genuine interest in pursuing a career in one of the many automotive-related fields. It is the first year of a two-year Automotive Certification program, which offers instruction in the basic theory and service methods used in the automotive field. **AUTOMOTIVE TECHNOLOGY II**

This Automotive Certification course is designed to reinforce and build upon skills and knowledge attained in the Automotive Technology 1A/1B. A greater emphasis is placed on methods of repair and service procedures. During the year the students will work in groups and practice many diagnostic and repair procedures.

## **AUTOMOTIVE TECHNOLOGY/ ADVANCED**

This advanced course will have an emphasis on project-based learning. Primary learning units will be Advanced Electrical, Drivability (Engine Performance), Mechanical Unit Repair, Major and Minor Vehicle Diagnosis, Service, and Repair.

## **AUTOMOTIVE TECHNOLOGY INTERNSHIP**

This course is designed to improve the student's auto mechanical skills and employability through actual paid "on-the-job" experience. An Individual Educational Training Plan and Training Agreement are developed for each student-trainee detailing his/her specific learning activities. This course may be taken for one or two hours. Student wages are equivalent to those earned by other trainees in that particular occupation.

## **TRANSPORTATION TECHNOLOGY I/II**

Transportation Technology is designed for students to enjoy exploration through hands on projects based learning. Learning about various modes of transportation and the technology associated with them, students will build, test, analyze and fix their projects to get from point A to point B. Throughout the course students will consider innovative alternative /sustainable energies with random methods of propulsion while discussing and incorporating suitable technologies. Topics may include a historical perspective on transportation systems, aerospace, automotive, cargo and resources shipping, traditional / nontraditional engines or systems of power, and future transportation

systems. This class includes hands-on projects that differ from year-to-year. Examples of possible projects could include: recycled vehicles; R.P.V. (random propulsion vehicles); model scratch rockets; hot air balloons; Styrofoam boats; Hover Crafts; Maglev vehicles (magnetic levitation), unique paper and balsa scratch airplanes; and others. Students will have fun developing their high demand hands on technical problem solving skills through exciting projects connected to the technology of transportation.

## **CAREER AND PROFESSIONAL DEVELOPMENT**

Career and professional development is the first step in preparing for the challenges you will face after graduation. This course will teach you personal skills, decision-making skills, and employability skills that will help create a foundation as you prepare to be on your own. Skills such as teamwork and problem solving, communication on the job, and leadership enhancement will be covered. Students will explore careers; learn proper application and interview skills; including ethical behavior and professional dress. This is one of five courses that complete a program of study in the Business Management Pathway

## **MICROSOFT COMPUTER APPLICATIONS I and II**

If you are considering acquiring essential skills required for both college and career, look no further! Students in this course will master basics and intermediate skills in the Microsoft Office suite, especially Word and Excel. Students will also prepare presentations. An integrated simulation will be the culminating activity. This is one of five courses that complete a program of study in the Business Management Pathway. Students who choose to do so may be eligible for articulated college credit.

## **NEW BUSINESS START UP AND MANAGEMENT**

Have you ever considered owning your own business? Do you want to explore what is required to be a successful entrepreneur? If so, then this class is for you. Students will explore all options of business ownership from idea conception to financing and organization, operations and quality control. By the end of this class students will have prepared a business plan for a sole proprietorship.

## **FINANCE AND BANKING I and II**

In this course students will explore the American Banking System from the standpoint of the bank and the consumer. Topics will include money management strategies, checking account simulations, fundamentals of investing, as well as career planning. Financial literacy skills will be learned through an interactive computer simulation website. This is one of five courses that complete a program of study in the Business Management Pathway **FINANCE AND BANKING II** In this course students will explore financial management as it applies to individuals and businesses. Topics will include investing your financial resources through the stock market, bonds, mutual funds, savings accounts, and money markets. Through the Stock Market Game (virtual online simulation) students will experience analyzing and trading a \$100,000 stock portfolio. Other aspects of business finance such as managing payroll, pricing, sources and uses

of funding, as well as financial planning will be included. This is one of five courses that complete a program of study in the Business Management Pathway

## **KEYBOARDING & BUSINESS TECHNOLOGY**

This course is designed to provide business-oriented and college-bound students with the beginning computer skills needed to succeed in high school, college and the business world. Skills covered will include keyboarding (alphabetic and numeric keypad) and reinforcement of proper keyboarding techniques. Additional topics will include computer literacy and computer applications such as document formatting and word processing activities (using Microsoft Word) and computer presentation applications (using Microsoft PowerPoint). We will also explore business etiquette and effective communication to help further employability skills. This course is recommended to be taken before other business courses for students who have not mastered proper keyboarding techniques

## **ACCOUNTING I and II**

Whether you are planning on taking business courses in college, starting your own business or working as a business professional, accounting is the course for you. This class covers accounting basics, including analyzing transactions, financial statements, payroll records and more. Students will learn the basic accounting principles for service and merchandising businesses as they apply to sole proprietorships, partnerships and corporations. Both manual and computerized accounting will be incorporated in this course. This is one of two courses that complete a program of study in the Accounting & Finance Pathway. ACCOUNTING II This course is a continuation of accounting concepts mastered in Accounting 1A/1B. Loans, interest, inventory, receivables, payables, stock, dividends are just some of the topics covered. Both manual and computerized accounting will be incorporated. This is one of two courses that complete a program of study in the Accounting & Finance Pathway.

## **INFORMATION TECHNOLOGY I and II**

Information Technology (IT) is one of today's most important career areas. IT skills are required not only within the IT industry, but they are becoming increasingly necessary in all facets of business and every sector of the economy. Students in this program will learn preliminary IT skills in digital multimedia and production. During the first semester, students will learn web page development skills which will include; Markup Language and Site Development Essentials; HTML5 Coding; Cascading Style sheets and Graphical Elements; Hyperlinks; HTML Tables; Web Forms; Video, Audio and Image Techniques; Extending HTML; and GUI Editors and Mobile Websites. During the second semester, students will enhance their digital multimedia and production skills by creating a website. This year-long course completes a program of study in the Information Technology Pathway and provides the opportunity to earn CIW Site Development Associate Certification. INFORMATION TECHNOLOGY IIA/IIB This course will take students deeper into the study of information technology and will provide the opportunity to earn the CIW Web Foundations Associate Certification. The CIW Web Foundations series of courses is a vendor-neutral Web education

program. The CIW Web Foundations series consists of three foundational courses and corresponding certification exams which include: Internet Business Associate, Site Development Associate and Network Technology Associate.

## **BUSINESS INTERNSHIP 1/2**

**BUSINESS INTERNSHIP 1/2 BUSINESS INTERNSHIP 1A/1B** This course provides the opportunity for senior-level students to gain a paid "on-the-job" work experience in the career area of their choice. An Individual Educational Training Plan and Training Agreement are developed for each student-trainee detailing his/her specific learning activities. This course may be taken for one or two hours. Student wages are equivalent to those earned by other trainees in those particular occupations.

## **CONSTRUCTION TRADES 1A/1B**

Class meets for one to two hours daily in the Construction Lab at Dakota High School. Students will gain proficiency in correct, safe usage of hand, stationary and portable power tools commonly associated with residential construction. Students will also learn correct construction terms; basic construction concepts; materials usage, estimating and measurement. They will be instructed in the fundamentals of residential construction systems such as foundations, framing, window/door installation, roofing, siding, masonry, plumbing, and electrical wiring.

## **CONSTRUCTION TRADES 1YA,1YB,1YC, and 1YD**

**CONSTRUCTION TRADES 1YA CONSTRUCTION TRADES 1YB CONSTRUCTION TRADES 1YC CONSTRUCTION TRADES 1YD** Class meets for one hour daily in the Construction Lab at Dakota High School. Enrolling in four one-hour, one-semester classes is equivalent to the one-year, two-hour course option. Students need to complete four semesters of Construction Trades 1YA, 1YB, 1YC, and 1YD to be eligible to enroll in Construction Trades 2A/2B.

## **CONSTRUCTION TRADES 2A/2B**

Class meets for two hours daily at the Dakota High School Construction Lab. Students will apply and further develop skills learned in Construction Trades 1 through extensive hands-on experience as they work to complete a modular home. Students will work in a production environment in which they will learn the importance of effective teamwork to meet production schedules, to stay within project budget and to deliver a product, which meets specific quality objectives. Students will be required to work as a volunteer with any Habitat for Humanity chapter for a minimum of 6 hours. Personal management skills necessary for success in the construction trades will be stressed. Additional topics taught in the Construction Trades class include Site Preparation, Employability Skills, Green Technology Construction Techniques, exposure to Heavy Equipment/Civil Construction Techniques, and Construction Business Management

## **CONSTRUCTION TRADES 3A/3B**

This course will provide additional hands-on experience in the field of Construction based on skills learned in Construction 2. Students will be expected to be a leader on the job, and to be assigned Project Manager duties with descriptions from the instructor including: material list break down, cost break down of list, labor estimating, contractor scheduling, BIA membership, MITES completion involvement and Michigan Building Code. Students will work in a production environment to learn the importance of effective teamwork to meet production schedules, stay within project budget and deliver a modular home, which meets specific quality objectives. Students are required to work as a volunteer with a Habitat for Humanity chapter for a minimum of 6 hours. Employability skills necessary for success in the Construction Trades will be stressed

## **CONSTRUCTION TRADES INTERNSHIP 1/2**

CONSTRUCTION TRADES INTERNSHIP 1/2 CONSTRUCTION TRADES INTERNSHIP 1A/1B This course provides the opportunity for senior-level students to improve their construction skills and employability through a paid “on-the-job” work experience in the construction career area. An Individual Educational Training Plan and Training Agreement are developed for each student-trainee detailing his/her specific learning activities. This course may be taken for one or two hours. Student wages are equivalent to those earned by other trainees in that particular occupation

## **CULINARY ARTS 1A/1B**

The primary goal of this career-oriented course is to provide students the opportunity to acquire skills, which prepare them for successful entry and advancement within the Hospitality Industry. The class provides extensive experience in large quantity food production and customer relations. These skills are best demonstrated and applied in the operation of the “Meeting Grounds Restaurant,” a full-service restaurant open to the public where students are responsible for all facets of food production, customer service and portion control.

## **CULINARY ARTS 2A/2B**

This advanced course is designed to equip students with the experiences and skills necessary for making personal career decisions and progressing professionally within the hospitality and food service industry. Pre-preparation, quantity food production, menu planning, restaurant management, cost control and accounting are just a few of the areas emphasized. These skills are best applied through the operation of the Meeting Grounds Restaurant. This course educates students about comprehensive sustainability in order to become aware of the environment and how the hospitality & culinary industry can make a positive impact.

## **CULINARY ARTS 3A/3B**

This advanced course is designed to provide food service and management skills for students to support making personal career decisions and progressing professionally

within the food service industry. Managing skills are practiced on a daily basis for the behind the scene skills that include inventory, ordering, pricing, menu planning, sanitation management, and cost control. These skills are best applied through the operation of “The Meeting Grounds Restaurant.”

## **CULINARY ARTS INTERNSHIP 1/2**

CULINARY ARTS INTERNSHIP 1/2 CULINARY ARTS INTERNSHIP 1A/1B This course provides the opportunity for senior-level students to gain a paid “on-the-job” work experience in the career area of their choice. An Individual Educational Training Plan and Training Agreement are developed for each student-trainee detailing his/her specific learning activities. This course may be taken for one or two hours. Student wages are equivalent to those earned by other trainees in that particular occupation.

## **TOURISM AND HOSPITALITY**

Students will gain an understanding of the core skills needed, education and work experiences required in order to advance in the world's second largest industry – Tourism and Hospitality. Students will also become familiar with the various career paths and opportunities available in the other main branches of the tourism and hospitality industry. Portions of the course will include lessons on world cultures and their food. Students will gain basic exposure to the culinary arts.

## **TECHNICAL DESIGN 1A/1B)**

This is the first course of a possible four-year design program. Students will be introduced to methods of Computer Aided Design (CAD), drafting, free-hand design and electronic digital media to develop professional drawing, design and visualization skills. Students will learn engineering and architecturally-based innovative techniques of free-hand sketching, lettering, measuring, geometric construction, pictorial techniques, orthographic projection and 3D modeling basics. Projects will include a focus on “green” technologies, alternative/renewable energy, and related innovations used by today’s designers, engineers, installation/service technicians, and architects.

## **MECHANICAL DESIGN 1A/1B**

This second year course continues development of visualization skills, use of electronic digital media, technical design, and basic design elements of dimensioning, sectioning, auxiliary projection, with the introduction of simple assembly designs. This course gives students an in-depth look at the utilization of CAD and drafting related careers as future options. Students are introduced to the concepts of design techniques including 3D parametric modeling, solid modeling, surface modeling, rendering and mechanical assemblies in a technical design environment. In addition students will be introduced to fabrication lab safety through the construction of small design and build projects

## **RESIDENTIAL ARCHITECTURE 1A/1B**

This second-year course in residential design provides basic information, methods, symbols and the architectural language necessary for planning various types of residential dwellings. Students are provided experiences in the methods of drafting, free-hand design and electronic digital media to develop visualization skills specific to architecture. Learning to prepare architectural working designs will be taught using both traditional and computer-based methods. Techniques in visualizing spaces in a two-dimensional field and transforming them to three-dimensional forms are introduced and developed. Students will also be introduced to architectural modeling and other build projects.

## **ENGINEERING DESIGN 1YA/1YB**

ENGINEERING DESIGN 1YA/1YB ENGINEERING DESIGN 1YC/1YD In this third year course, students take an advanced look at the engineering design profession. Students will learn to apply design concepts, engineering problem solving, and visual graphic techniques while maintaining professional ethics, and responsibility. Students will be introduced to design theory of basic machine elements through the introduction of dies, jigs and other industrial applications. Students will accomplish typical industry design practices including the preparation of complete production tool designs using the CAD system. Understanding the theory of detail design procedures will be explained through the latest design methods, technical skills, industrial applications, and practices of mechanical assembly. Topical areas may include: bill of materials, subassemblies, standard parts, fasteners, dimensioning, visualization and advanced 3-dimensional CAD techniques. Students will incorporate rapid prototyping technology for model design, analysis and verification of a fully defined new part. The building of simple projects will be included in the course experience while maintaining personal safety in the fabrication lab.

## **COMMERCIAL ARCHITECTURE 1YA/1YB**

COMMERCIAL ARCHITECTURE 1YA/1YB COMMERCIAL ARCHITECTURE 1YC/1YD This third-year course will provide students the opportunity to design advanced level single-family and multi-family structures using industry required Computer Aided (CAD) methods. Introduction to commercial structures using scheduling, documentation, site planning, structural systems, building systems, materials and presentation methods to meet proper building code will be emphasized. This class will help students develop skills in architectural 2D design, 3D design and visualization techniques that will emphasize a structure's overall construction requirement. Students will research, plan, design, develop and document their work by creating working drawings and presentation boards. Architectural modeling techniques created through computer-based applications and hand-built applications will help prepare students for future architectural college and industry requirements. Students will be expected to create design portfolios, digital presentations, apply research and development strategies to successfully develop structure documentation related to both residential and commercial architecture. Students will be expected to follow all the computer safety and lab safety requirements within the classroom. Each student will be expected to

adhere to the proper safety procedures, school code of conduct and classroom rules to ensure a safe learning environment while attaining the highest level of college or industry preparedness.

## **RESEARCH AND DEVELOPMENT 1A/1B**

In this fourth-year course students will have the opportunity to design and develop a variety of new products and mechanisms using the latest in engineering design techniques. With concept sketching and visualization as a foundation, projects will be designed, engineered, prototyped, fabricated and tested for performance and durability. Students will focus on 3-D solid part design and analysis using the CAD system. Results from the applications of various digital electronic media may include; Photo-Realistic Rendering, Animation, Finite Element Analysis (FEA) and Plastic Rapid Prototyping of 3-D solids. Special emphasis is placed on the Research and Development of fully defined new products. Students will use all essential metal and woodworking tools in the DHS fabrication lab to manufacture and assemble their final projects. Students will be required to give a final portfolio presentation of their research and will depart the class with a greater understanding of the development of tangible industry processes, methods, new product development and equipment.

## **DESIGN INTERNSHIP 1/2**

DESIGN INTERNSHIP 1/2 DESIGN INTERNSHIP 1A/1B This course provides the opportunity for senior-level students to gain a paid “on-the-job” work experience in the career area of their choice. An Individual Educational Training Plan and Training Agreement are developed for each student-trainee detailing his/her specific learning activities. This course may be taken for one or two hours. Student wages are equivalent to those earned by other trainees in that particular occupation..

## **FABRICS I and II**

This course explores the use of fabrics in design, sewing, and fashion. Learning and implementing the fundamentals of sewing is the focus of this course. Students will complete projects using specific techniques and having some flexibility on what they construct. FABRICS II This course will build on the basic skills acquired in Fibers and Fabrics I. Students will construct projects that apply their previous knowledge as well as learning new challenging techniques in order to increase their skill level.

## **NUTRITION EDUCATION I and II**

Master the basics of nutrition in this course. What specific nutrients are needed? Where do you get them? How does the body break down foods into energy and the chemical components needed for optimal health? Students make a thorough investigation of the nutrients and how they interact with the body, explore nutrition guidelines, and learn how to improve their eating habits. Students will also learn some basic cooking skills as they participate in enrichment labs. NUTRITION EDUCATION II The science of Nutrition is exploding as scientists uncover the healing powers of many foods. New diet trends and studies emerge on a daily basis. Some discoveries are useful but others are



misleading and only a means to make marketers rich. This course will explore these new discoveries and help students to distinguish fact from fallacy. Along with exploring new trends, course topics include research methodology, functional foods, toxic foods, food additives, organic foods, sustainability, weight management, and diet and body analysis. The enrichment labs in Nutrition II have an emphasis on “natural, functional foods.”

## **HOUSING AND INTERIOR DESIGN I and II**

This course provides a broad overview of how to plan, layout, design and furnish the interior of a residential and commercial space. Students will study on projects involving architectural design, floor plans, color schemes, principles of design, housing needs, universal design and related careers in housing/interior design. Practical applications will include drawing, rendering, computerized floor plans and presentation boards. HOUSING AND INTERIOR DESIGN II This class extends the learning from Housing and Interior Design I. Advanced projects will be based on design principles and client specifications. Topics may include windows, lighting, flooring, furniture, color schemes, architecture, kitchen and bath design, landscaping and computerized floor plans.

## **CONSUMER EDUCATION**

If you feel your money is managing you instead of you managing your money, choosing this class will help you regain control of your personal finances. You will explore financial management and planning, credit decisions, insurance, taxation, investing, understanding the stock market, consumerism and, of course, how to make wise earning and spending choices. Using real-life situations you will gain the skills, which will enable you to realize your financial goals.

## **HUMAN RELATIONS**

This activity-based course will explore the topics of character, values, self-esteem, diversity, tolerance, communication, anger management, team building, dating, love, marriage, divorce, aging, and death. This course is designed to assess personal strengths and weaknesses, and to promote personal growth through introspection and shared experiences. As a result, students will learn how they can build successful and effective relationships with co-workers, significant others, and family members.

## **INDEPENDENT LIVING**

If you want to be ready for independence, this class is for you. It emphasizes the need to be self-motivated while studying personal management. Skills to be learned include the wise use of credit, how to correctly use a checking account, assessing insurance needs, how to make housing decisions, meal planning and food preparation and many more. Personal goals will be the basis for applying these skills in making decisions during class as well as throughout life. As a capstone experience, students will utilize “On Your Own: Coast to Coast,” a computer software simulation that will allow them to apply the skills learned in class to navigate the ups and downs of living independently as they face obstacles, choices, and challenges that mimic “real world” situations.

## **HEALTH**

This course is required for graduation. It covers health and wellness, emotional and mental health, relationships, the human life cycle including the reproductive system, health problems and diseases including sexually transmitted diseases, substance use abuse and nutrition.

## **PARENTING & YOUNG CHILDREN**

The responsibilities and rewards of becoming a parent as well as the need to strengthen the family will be explored in this course while also discovering the developmental needs of the young child. Students will study changes that occur in parenthood through interaction and practical experiences such as “Real Care-II,” which simulates parenting of an infant. Students will explore the physical, intellectual, emotional and social growth and development through age five. This course is designed to promote strong families, parenting skills, early childhood development, and positive relationships.

## **GRAPHIC DESIGN INTRODUCTION**

The primary goal of this course is to introduce students to the publishing skills needed for graphic design for industry and/or higher education through various lessons, assignments, and projects. This course covers the following areas of study: digital layout, design, electronic pre-press, scanning, desktop and electronic publishing, formatting and manipulating text and graphics for print and the web. Program software utilized: Adobe Creative Suite (InDesign, Illustrator, & Photoshop). A cumulative electronic portfolio produced upon completion of this course.

## **GRAPHIC DESIGN INTERMEDIATE**

The primary goal of this course is to prepare students with the drawing and photo editing skills needed for graphic design in industry and/or higher education through various lessons, assignments, and projects. This course covers the following areas of study: computer drawing, vector artwork design, formatting, enhancing, correcting and manipulating text, images, photos, and graphics for print and the web. Program software utilized: Adobe Creative Suite (InDesign, Illustrator, & Photoshop). A cumulative electronic portfolio produced upon completion of this course.

## **GRAPHIC DESIGN 1A/1B**

9255 GRAPHIC DESIGN 1YA 9256 GRAPHIC DESIGN 1YB 9257 GRAPHIC DESIGN 1YC 9258 GRAPHIC DESIGN 1YD The primary goal of these courses is to independently reinforce, establish, and strengthen the specific skills needed for graphic design in industry and/or higher education through various tutorials. This course covers the following areas of study: computer drawing, vector artwork design, formatting, enhancing, correcting and manipulating text, images, photos, and graphics for print and the web. Students must possess basic math, grammar, reading, and critical

thinking skills. Program software utilized: Adobe Creative Suite (InDesign, Illustrator, & Photoshop). A cumulative electronic portfolio produced upon completion of this course.

## **GRAPHIC DESIGN 2A/2B**

GRAPHIC DESIGN 2YA GRAPHIC DESIGN 2YB GRAPHIC DESIGN 2YC GRAPHIC DESIGN 2YD The primary goal of the “beyond completer” courses is for students to practice their employability and job skills needed for graphic design in industry and/or higher education; through various independent assignments, as well as, public, private sector, and district jobs. Program software utilized: Adobe Creative Suite (InDesign, Illustrator, & Photoshop). A cumulative electronic portfolio produced upon completion of this course.

## **GRAPHIC DESIGN 3A/3B**

The primary goal of this course emphasizes leadership and employability skills to prepare students for success in the graphic design industry. Students will enhance their skill set using Adobe Creative Suite 6 software (InDesign, Illustrator and Photoshop) for computer drawing, vector artwork design, formatting, enhancing, correcting and manipulating text, images, photos, and graphics for print and the web. Students will create several project-based assignments within the school district, community and non-profit clients. An electronic portfolio will be produced upon completion of this course.

## **GRAPHIC DESIGN INTERNSHIP**

This course provides the opportunity for senior-level students to gain a paid “on-the-job” work experience in graphic design. An Individual Educational Training Plan and Training Agreement are developed for each student-trainee detailing his/her specific learning activities. This course may be taken for one or two hours. Student wages are equivalent to those earned by other trainees in that particular occupation.

## **MARKETING I and II**

Marketing is all around us. Students will discover this in the Marketing 1 course where they are introduced to the foundations and functions of marketing. Students will also learn the steps of a sale and understand customer-buying motives. Students will be introduced to the operation of the school store where they will gain hands-on experience. Marketing students are members of DECA and are encouraged to get involved in DECA activities. This course is essential for students who plan on studying marketing or business in college. It is strongly recommended that students sign up for Marketing 2 (second semester) to be eligible to work in the school store as a senior marketing student. **MARKETING II** Marketing 2 students will become involved in the buying activities that are associated with the school store lab and will expand knowledge of marketing by focusing on functions such as pricing, promotion, place, and product. Students will also learn how government is involved in business and about the different economies of the world. This course is essential for students who plan on studying marketing or business in college. It is strongly recommended that students

sign up for Marketing II to be eligible to work in the school store as a senior marketing student.

## **MARKETING 3A/3B School Store-Gen Merchandising**

This class prepares students to apply skills through the operation of the school store “The Wig Wam.” This is a 2-hour block class. Areas of work and management include: sales, selecting and purchasing merchandise, display and visual merchandising, and cashiering. Students will design promotions and advertising campaigns. Other topic areas include: fashion merchandising, management skills, sports and entertainment marketing, business ethics, and human relations skills. If you are interested in a career in retail sales, marketing, or management, and want a “hands-on” approach to learning this is the class for you.

## **ENTREPRENEURSHIP**

Have you ever thought about opening your own business? Do you have what it takes to be your own boss? If so, this class is for you. This course prepares students to carry out the entrepreneurial process and experience the entrepreneurial spirit. Students will develop an innovative idea, conduct a feasibility analysis, and write a business plan. Course activities will be focused on developing the student’s communication skills, initiative, creativity, flexibility, and problem solving techniques. While entrepreneurship education is tailored for future small business owners, it prepares all students for the workforce of tomorrow. Entrepreneurship students are eligible to join and get involved in DECA. Entrepreneurship is an excellent course to accompany the study of Marketing. It is also an appropriate course for students who are not enrolled in the Business program, but still have an interest in what it takes to start a business. Note that students wishing to complete a course of study in the Business Management Pathway should enroll in the course called New Business Start Up and Management (in lieu of Entrepreneurship) which is one of five courses that complete a program of study in Business Management found in the Business section of this course book.

## **MARKETING INTERNSHIP 1A/1B**

This course provides the opportunity for senior-level students to gain a paid “on-the-job” work experience in the career area of their choice. An Individual Educational Training Plan and Training Agreement are developed for each student-trainee detailing his/her specific learning activities. This course may be taken for one or two hours. Student wages are equivalent to those earned by other trainees in that particular occupation.

## **MECHATRONICS & ROBOTICS 1A and 1B**

Within a state-of-the-art lab, students will begin the journey into learning the various disciplines (see above overview) involved in mechatronics. Underlying theory and principles will gradually come together, and come to life, through a combination of learning strategies including: hands-on learning, computer-based lessons, use of high tech trainers and equipment, industry experts and site visits, and (perhaps most importantly), periodic, student-created projects that apply learning and allow

students to develop novel solutions to challenges. Students can expect to improve their understanding of many physics principles that are naturally embedded in mechatronics. In addition to appropriate STEM\* knowledge and skills, 21st century skills like critical thinking, collaboration, creative problem-solving and effective communication will be developed. Opportunities for student leadership, participation in competitions, and work-based learning experiences, will also be woven in throughout. **MECHATRONICS & ROBOTICS 1B** This is a seamless continuation of Mechatronics 1A. (See above.)

## **MECHATRONICS & ROBOTICS 2A and 2B**

In the second year, students will incorporate and build upon their knowledge of mechatronics learned in the first year through more complex, project-based application. Additional opportunity for work-based learning, student leadership, and competition will be incorporated. (See Mechatronics & Robotics overview at top of page and description for Mechatronics 1A for details about mechatronics content.) **MECHATRONICS & ROBOTICS 2B** This is a seamless continuation of Mechatronics 2A (see above) and the course in which a capstone experience or project should be concluded and shared.

## **MEDICAL CAREERS 1A / ANATOMY IN HEALTH & DISEASE 1B**

Are you interested in a career in the medical field? Come and explore your career options while learning many patient care skills, such as CPR, first aid, patient transport, temperature, pulse, respiration, blood pressure and much more. This skill-based course offers medical terminology and anatomy and physiology relating to patient care. Upon completion of this course students earn a .50 credit in Career and Technical Education and .50 credit in Anatomy in Health and Disease (science elective credit).

## **ENGLISH 11A/11B (MEDICAL)**

This Medical Academy English course will meet all of the eleventh grade English content standards in reading, writing, speaking, and listening. This course is designed to provide students with the critical thinking, writing and research skills needed to succeed in any challenging post-secondary curriculum. Students will master a variety of writing formats including essays, research, creative and technical writing. Students will improve in the areas of grammar, vocabulary, and rhetoric. Technology will be utilized for instruction and presentations, both group and individual. Students will prepare for the Michigan Merit Exam by practicing specific test-taking strategies.

## **MEDICAL CAREERS 2A / ANATOMY IN HEALTH & DISEASE 2B (2 hr)**

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This class is a continuation of Medical Careers I. The class will offer advanced patient-care skills and advanced theory focusing on the demand for multi-skilled workers in health care. A clinical component will also be offered to qualified students who meet department criteria. These students will gain additional hand-on instruction by spending class time at the McLaren Medical Center.

## **ENGLISH 12A/12B**

This Medical Academy English course meets the English Content Standards in reading, writing, speaking and listening in addition to meeting the on-line learning requirements for the Michigan Merit Curriculum. Students will develop critical reading, writing, research and analytical skills. This course includes tests, quizzes, writing assignments, individualized vocabulary and grammar study, discussion boards, projects and debates. This course's content is rigorous and requires highly motivated, organized students who are able and willing to work independently.

## **MEDICAL CAREERS INTERNSHIP 1/2**

### **MEDICAL CAREERS INTERNSHIP 1/2 MEDICAL CAREERS INTERNSHIP 1A/1B**

Students may be placed in a health facility for which their skills and interest levels are appropriate. This course provides the opportunity for senior-level students to gain a paid "on-the-job" work experience in the medical field. An Individual Educational Training Plan and Training Agreement are developed for each student-trainee detailing his/her specific learning activities. This course may be taken for one or two hours. Student wages are equivalent to those earned by other trainees in that particular occupation.

## **TEACHER CADET 1/2**

The Teacher Cadet program is an innovative hands-on course designed for high school students who want to become teachers and to gain experience working with pre-school, elementary and middle school students. An instructional component will be integral to the "in-classroom" experience with a strong emphasis on writing. You will work with students in as many capacities as possible: tutoring, working on special projects, supervising small groups, and eventually teaching a lesson to the entire class. You may also help with various classroom preparation duties. You will strengthen your understanding of the teaching process by documenting your observations and achievements in a Teacher Cadet Portfolio. Excellent attendance is required. Student must have clearance from the Family Independence Agency Child Abuse/Neglect Central Registry. (Forms will be provided at interview.)

## **WOODWORKING 1 and 2**

Course content includes use of hand and electric power tools, safety, measurement and plan layout. Students will design and construct a project. Should the student wish to build a large project, Woods 2 for the 2nd semester is suggested. WOODWORKING 2 Furniture and furniture accessory construction featured. Exclusive use of hand, power and stationary power tools. Student should consider Woods 3 the following semester to complete a large project. The project chosen shall be a challenge to the student's ability level.

## **WOODWORKING 3 and 4**

Furniture construction featured. Students should elect to build or continue a large project or build a number of fine small projects. The project chosen shall be a challenge

to the student's ability level. Millwork and exclusive use of power tools are covered. WOODWORKING 4 Furniture construction and industrial process is featured with millwork and exclusive use of power tools. The student will construct a large project of his or her own choice and design. The project chosen shall be a challenge to the student's ability level.

## **ADVANCED WOOD & MILLWORK/CABINETMAKING 1A/1B and 2A/2B**

Actual cabinet-making shop conditions are duplicated. Students will use power machinery, as well as, hand, portable electric, and air power tools. Two projects during the year will be of the student's choice. Wood experience and technology taught will enable the student to secure a job in a cabinetmaking shop or a related area of trade. ADVANCED WOOD & MILLWORK/CABINETMAKING 2A/2B Actual cabinet-making shop conditions are duplicated. Students will use power machinery, as well as, hand, portable electric and air-powered tools. Two projects during the year will be the student's choice. Wood experience and technology taught will enable the student to secure a job in a cabinetmaking shop or a related area of trade.

## **ADVANCED WOOD/MILL/CABINET INTERNSHIP 1/2**

ADVANCED WOOD/MILL/CABINET INTERNSHIP 1/2 ADVANCED WOOD/MILL/CABINET INTERNSHIP 1A/1B This course provides the opportunity for senior-level students to gain a paid "on-the-job" work experience in the career area of their choice. An Individual Educational Training Plan and Training Agreement are developed for each student-trainee detailing his/her specific learning activities. This course may be taken for one or two hours. Student wages are equivalent to those earned by other trainees in that particular occupation.