

MHS Course Catalog



2021-2022

Updated April 2021

Table of Contents

<u>2023 and 2024 CTE Pathways</u>	<u>2</u>
<u>2025 CTE Pathways</u>	<u>3</u>
<u>Agriculture</u>	<u>4</u>
<u>Business, Marketing, and Information Technology</u>	<u>5</u>
<u>Consumer and Family Sciences</u>	<u>11</u>
<u>Fine Arts</u>	<u>15</u>
<u>Visual Arts</u>	<u>15</u>
<u>Music (Band, Orchestra, Choir)</u>	<u>23</u>
<u>Theatre</u>	<u>27</u>
<u>World Languages</u>	<u>28</u>
<u>Health/Physical Education</u>	<u>32</u>
<u>Language Arts</u>	<u>35</u>
<u>Mathematics</u>	<u>39</u>
<u>Science</u>	<u>42</u>
<u>Social Studies</u>	<u>47</u>
<u>Engineering and Technology Education</u>	<u>52</u>
<u>Non-Departmental</u>	<u>61</u>

*****NOT ALL COURSES ARE OFFERED EVERY YEAR*****

Career and Technical (CTE) Pathways

2023 and 2024 Pathways:

Next Level Career Pathways/Programs of Study		Perkins V - Cohorts 2023 and 2024 (2022 can opt-in)			
Cluster	Career Pathway	Concentrator A		Concentrator B	
Advanced Manufacturing	Automation and Robotics	5610	Industrial Automation and Robotics I	5612	Industrial Automation and Robotics II
Advanced Manufacturing	Digital Manufacturing - Industry 4.0 (New) May be used as a replacement for Advanced	5608	Advanced Manufacturing I	5606	Advanced Manufacturing II
Advanced Manufacturing	Precision Machining	5782	Precision Machining I	5784	Precision Machining II
Advanced Manufacturing	Welding Technology	5776	Welding Technology I	5778	Welding Technology II
Agriculture, Food and Natural Resources	Ag Mechanical and Engineering (formerly Ag Power, Structure and Technology)	5088	Agriculture Power, Structure and Technology	5002	Agribusiness Management
Agriculture, Food and Natural Resources	Agriscience - Plants or Animals (combined Animal, Plant, and Food Products)	5070	Advanced Life Science: Animals (L)	5002	Agribusiness Management
Agriculture, Food and Natural Resources	Horticulture	5132	Horticultural Science	5136	Landscape Management I
Agriculture, Food and Natural Resources	Landscaping	5136	Landscape Management I	5137	Landscape Management II
Architecture and Construction	Construction Trades - Carpentry	5580	Construction Trades I	5578	Construction Trades II
Architecture and Construction	Interior Design	5352	Housing and Interior Design Careers I	5460	Housing and Interior Design Careers II
Arts, AV Tech and Comm	Radio and Television	5986	Radio and Television I	5992	Radio and Television II
Business Management and Administration	Business Administration (formerly E&M Bus Mgmt Focus)	4562	Principles of Business Management	5966	Entrepreneurship and New Ventures Capstone
Marketing	Entrepreneurship	5914	Principles of Marketing	5966	Entrepreneurship and New Ventures Capstone
Education and Training	Early Childhood	5412	Early Childhood Education I	5406	Early Childhood Education II
Health Sciences	Biomedical Sciences and Technology	5216	PLTW Human Body Systems	5217	PLTW Medical Interventions
Health Sciences	Emergency Medical Services	5282	Health Science Education I	5210	Emergency Medical Services
Health Sciences	Pre-Nursing / Healthcare Specialist (Includes CNA)	5282	Health Science Education I	5284	Health Science Education II: Nursing
Hospitality and Tourism	Hospitality Management	5440	Culinary Arts and Hospitality I	5458	Culinary Arts and Hospitality II: Hospitality Management
Human Services	Cosmetology	5802	Cosmetology I	5806	Cosmetology II
Human Services	Human and Social Services	5336	Human and Social Services I	5462	Human and Social Services II
Law, Public Safety, Corrections, and Security	Criminal Justice	5822	Criminal Justice I	5824	Criminal Justice II Advanced
Law, Public Safety, Corrections, and Security	Fire and Rescue	5820	Fire and Rescue I	5826	Fire and Rescue II
Law, Public Safety, Corrections, and Security	Fire and Rescue	5820	Fire and Rescue I	5210	Emergency Medical Services
STEM	Building Information Modeling (formerly Architectural Drafting and Design)	5640	Architectural Drafting and Design I	5652	Architectural Drafting and Design II
STEM	Computer Science	4801	Computer Science I	5253	Computer Science III: Cybersecurity Capstone
STEM	Design Technology (Formerly Mechanical Drafting and Design)	4836	Mechanical Drafting and Design I	4838	Mechanical Drafting and Design II
Transportation, Distribution, and Logistics	Automotive Collision Repair	5514	Automotive Collision Repair I	5544	Automotive Collision Repair II
Transportation, Distribution, and Logistics	Automotive Services	5510	Automotive Services Technology I	5546	Automotive Services Technology II

2025 Pathways:

Next Level Career Pathways/Programs of Study		Perkins V - Next Level Programs of Study Course Sequences - Cohort 2025 (2022, 2023, 2024 can opt-in)					
Cluster	Career Pathway	Principles - Level I		CTE Concentrator A - Level I		CTE Concentrator B - Level I	
Advanced Manufacturing	Precision Machining	7109	Principles of Precision Machining	7105	Machining Fundamentals	7107	Precision Machining
Advanced Manufacturing	Welding Technology	7110	Principles of Welding Technology	7111	Shielded Metal Arc Welding	7101	Gas Welding Processes
Agriculture, Food and Natural Resources	Ag Mechanical and Engineering (formerly Ag Power, Structure and Technology)	7117	Principles of Agriculture	5088	Agriculture Power, Structures and Technology	7112	Agriculture Structures Fabrication and Design
Agriculture, Food and Natural Resources	Agriscience - Plants or Animals (combined Animal, Plant, and Food Products)	7117	Principles of Agriculture	5008	Animal Science	5070	Advanced Life Science, Animals (L)
Agriculture, Food and Natural Resources	Horticulture	7117	Principles of Agriculture	5132	Horticultural Science	7114	Greenhouse and Soilless Production
Agriculture, Food and Natural Resources	Landscaping	7117	Principles of Agriculture	5132	Horticultural Science	7115	Landscape and Turf Management
Arts, AV Tech and Comm	Radio and Television	7139	Principles of Radio & TV	7135	Audio and Video Production	7137	Mass Media Performance
Business Management and Administration	Business Administration (formerly E&M Bus Mgmt Focus)	7152	Principles of Business	7143	Business Administration Fundamentals	4524	Accounting Fundamentals
Education and Training	Early Childhood	7160	Principles of Early Childhood Education	7158	Early Childhood Education Curriculum	7159	Early Childhood Education Guidance
Finance	Accounting	7152	Principles of Business	4524	Accounting Fundamentals	4522	Advanced Accounting
Finance	Banking and Investment	7152	Principles of Business	4524	Accounting Fundamentals	7150	Money and Banking
Health Sciences	Biomedical Sciences and Technology	5218	Principles of Biomedical Sciences	5216	Human Body Systems	5217	Medical Interventions
Health Sciences	Emergency Medical Services	7168	Principles of Healthcare	5274	Medical Terminology	7165	Emergency Medical Tech
Health Sciences	Medical Assistant (New)	7168	Principles of Healthcare	5274	Medical Terminology	7164	Certified Clinical Medical Assistant (CCMA)
Health Sciences	Pre-Nursing / Healthcare Specialist (Includes CNA)	7168	Principles of Healthcare	5274	Medical Terminology	7166	Healthcare Specialist: C N A
Hospitality and Tourism	Culinary Arts	7173	Principles of Hospitality	7171	Food Theory and Nutrition	7169	Culinary Arts
Hospitality and Tourism	Hospitality Management	7173	Principles of Hospitality	7171	Food Theory and Nutrition	7172	Hospitality Management
Human Services	Human and Social Services	7176	Principles of Human Services	7177	Relationships & Emotions	7174	Disability Services
Information Tech	Information Technology Support and Services	7183	Principles of Computers and Informatics	7180	Information Technology Fundamentals	7181	Information Technology Support and Service
Law, Public Safety, Corrections, and Security	Criminal Justice	7193	Principles of Criminal Justice	7191	Law Enforcement & Cultural Awareness	7188	Courts & Corrections
Law, Public Safety, Corrections, and Security	Fire and Rescue	7195	Principles of Public Safety and Hazmat Awareness	7189	Fire Fighting Fundamentals	7186	Advanced Fire Fighting
Marketing	Marketing and Sales	7152	Principles of Business	5914	Marketing Fundamentals	5918	Strategic Marketing
STEM	Design Technology (Formerly Mechanical Drafting and Design)	7202	Principles of Design Technology	7197	Computer Aided Design	7201	Mechanical Design
STEM	Engineering	4802	Introduction to Engineering Design	5644	Principles of Engineering	5538	Digital Electronics
Transportation, Distribution, and Logistics	Automotive Collision Repair	7215	Principles of Collision Repair	7206	Automotive Paint and Welding	7204	Automotive Body Repair
Transportation, Distribution, and Logistics	Automotive Services	7213	Principles of Automotive Services	7205	Automotive Brakes and Electrical	7212	Engine Performance

AGRICULTURE COURSES

PRINCIPLES OF AGRICULTURE 1, 2 (DOE 7117)

(FORMERLY Introduction to Agriculture 1, 2)

2 Credits 2 Trimesters Grades 9-12

Prerequisite: None

Principles of Agriculture is a two-semester course that will cover the diversity of the agricultural industry and agribusiness concepts. Students will develop an understanding and the role of agriculture in the United States and globally. Topics covered in the course range from animals, plants, food, natural resources, ag power, structures and technology, as well as careers.

- Counts as an Elective for All Diplomas
- “Principles” Course for the 2025 Agriculture Pathways

ANIMAL SCIENCE 1, 2 (DOE 5008)

2 Credits 2 Trimesters Grades 10-12

Prerequisite: Principles of Agriculture (for the 2025 cohort and beyond)

Animals provide both food and companionship for us. This class addresses such topics as animal anatomy, genetics, reproduction, nutrition, and diseases. New management practices for the care and maintenance of both farm animals and non-farm animals are discussed. Any student who enjoys or plans to work with animals should experience this class. Meets FFA membership requirement

- Counts as an Elective for All Diplomas
- Fulfills Life or Physical Science Requirement for General Diploma
- Fulfills a Core 40 science for the Core 40 diploma
- Potential Dual Credit through Ivy Tech (3 college credits – must take 1 and 2 in the same year for Dual Credit)
- “Concentrator A” Course for the 2025 Agriculture Pathways

ADVANCED ANIMAL SCIENCE 1, 2 (DOE 5070)

2 Credits 2 Trimesters Grades 11-12

Prerequisite: Principles of Agriculture AND Animal Science

Advanced Life Science: Animals is a two-semester course that provides students with opportunities to participate in a variety of activities including laboratory work. Students will explore concepts related to history and trends in animal agriculture as related to animal welfare, husbandry, diseases and parasites, laws and practices relating to handling, housing, environmental impact, global sustainable practices of animal agriculture, genetics, breeding practices, biotechnology uses, and comparative knowledge of anatomy and physiology of animals used in animal agriculture.

- Counts as an Elective for All Diplomas
- Fulfills a Core 40 science for the Core 40 diploma
- “Concentrator B” Course for the 2025 Agriculture Pathways

AGRICULTURAL POWER, STRUCTURE, & TECHNOLOGY 1 (DOE 5088)

1 Credit 1 Trimester Grades 10-12

Prerequisite: Principles of Agriculture (for the 2025 cohort and beyond)

You will develop an understanding and appreciation for all things mechanical. You will learn the parts and functions of air-cooled engines, as well as their application in our daily lives. These skills will enable you to further explore related career opportunities or make you a more functional citizen by employing that you have learned as a basic life skill. Meets FFA membership requirement

- Counts as an Elective for All Diplomas
- Potential Dual Credit through Ivy Tech (3 college credits – must take 1 and 2 in the same year for Dual Credit)
- “Concentrator A” Course for the 2025 Agriculture Pathways

AGRICULTURAL POWER, STRUCTURE, & TECHNOLOGY 2 (DOE 5088)

1 Credit 1 Trimester Grades 10-12

Prerequisite: Principles of Agriculture (for the 2025 cohort and beyond)

You will learn the basics of electric and gas welding, its role in industry, and its use as a tool for repair. These skills will enable you to further explore related career opportunities or make you a more functional citizen by employing what you have learned as a basic life skill. Meets FFA membership requirement

- Counts as an Elective for All Diplomas
- Potential Dual Credit through Ivy Tech (3 college credits – must take 1 and 2 in the same year for Dual Credit)
- “Concentrator A” Course for the 2025 Agriculture Pathways

HORTICULTURAL SCIENCE 1, 2 (DOE 5132)

2 Credits 2 Trimesters Grades 10-12

Prerequisite: Principles of Agriculture (for the 2025 cohort and beyond)

This class will put you in touch with our earth! Horticulture is designed to give you an understanding and appreciation for the broad field of modern horticulture. Topics include: propagation of plants, plant growth, growth media nursery, gardening, pest management, landscape design, application and maintenance of horticulture equipment and management of greenhouse operations. The job market in horticulture continues to grow rapidly and every student should include this class in his or her future plans. Meets FFA membership requirement. IVY TECH dual credit may be earned.

- Counts as an Elective for All Diplomas

- Fulfills Life or Physical Science Requirement for General Diploma
- Potential Dual Credit through Ivy Tech (3 college credits – must take 1 and 2 in the same year for Dual Credit)
- “Concentrator A” Course for the 2025 Agriculture Pathways

LANDSCAPE MANAGEMENT I-1, I-2 (DOE 5136)

2 Credits 2 Trimesters Grades 9 - 12

Prerequisite: Principles of Agriculture (for the 2025 cohort and beyond)

Landscape Management is a two semester course that provides the student with an overview of the many career opportunities in the diverse field of landscape management. Students are introduced to the procedures used in the planning and design of a landscape using current technology practices, the principles and procedures involved with landscape construction, the determination of maintenance schedules, communications and management skills necessary in landscaping operations, and the care and use of equipment utilized by landscapers. Upon completion of the program, students have the opportunity to become Indiana Landscape Industry Certified through a state-approved program.

- Counts as a Directed Elective or Elective for all diplomas
- Potential Dual Credit through Ivy Tech (3 college credits – must take 1 and 2 in the same year for Dual Credit)
- Qualifies as a quantitative reasoning course
- “Concentrator B” Course for the 2025 Agriculture Pathways

LANDSCAPE MANAGEMENT II-1, II-2 (DOE 5137)

2 Credits 2 Trimesters Grades 9 - 12

Prerequisite: Principles of Agriculture AND Landscape Management 1, 2

Landscape Management II is a two semester course that extends the content and skills of Landscape Management and provides the student with in-depth exploration of the many career opportunities in the diverse field of landscape management. Students continue to build knowledge and skill in the procedures used in landscape planning and design using current industry standards and practices. Extended laboratory experiences include application of the principles and procedures involved especially in the Midwest and Great Lakes areas with landscape construction; turf management; scheduling and oversight of landscape maintenance; weed control; non-pathogenic and disease prevention, diagnosis, and treatment; communications; management skills necessary in landscaping operations; and the use and maintenance of equipment utilized by landscapers. Students should also participate in leadership development, supervised agricultural experience and career exploration activities in the area of landscape management.

- Counts as a Directed Elective or Elective for all diplomas

- Qualifies as a quantitative reasoning course

AGRIBUSINESS MANAGEMENT 1, 2 (DOE 5002)

2 Credits

2 Trimesters

Grades: 10 -12

Prerequisite: Principles of Agriculture (for the 2025 cohort and beyond)

Agribusiness Management provides foundation concepts in agricultural business. It is a two semester course that introduces students to the principles of business organization and management from a local and global perspective, with the utilization of technology. Concepts covered in the course include; accounting and record keeping, business planning and management, food and fiber, forms of business, finance, management, sales and marketing, careers, leadership development. Students will demonstrate principles and techniques for planning, development, application and management of agribusiness systems through a supervised agriculture experience (Work-based learning) programs.

- Counts as an Elective or Directed Elective for all diplomas.
- Qualifies as a quantitative reasoning course
- Potential Dual Credit through Ivy Tech (3 college credits – must take 1 and 2 in the same year for Dual Credit)

[Back to Table of Contents](#)

BUSINESS, MARKETING, AND INFORMATION TECHNOLOGY COURSES

PRINCIPLES OF BUSINESS 1, 2 (DOE 7152)

(FORMERLY Introduction to Business 1, 2)

2 Credits 2 Trimesters Grades 9-12

Prerequisite: None

Principles of Business examines American business including business ownership, organization principles and problems, management, control facilities, administration, financial management, and development practices of American business enterprises. This course will also emphasize the identification and practice of the appropriate use of technology to communicate and solve business problems and aid in decision making. Attention will be given to developing business communication, problem-solving, and decision-making skills using Microsoft Word, Excel, Access, and PowerPoint.

- Counts as a Directed Elective or Elective for all diplomas
- “Principles” Course for the 2025 Business Pathways

PREPARING FOR COLLEGE & CAREERS (DOE 5394)

1 Credit 1 Trimester Grade 8 ONLY (Not offered at MHS)

Prerequisite: None

Preparing for College and Careers addresses the knowledge, skills, and behaviors all students need to be prepared for success in college, career, and life. The focus of the course is the impact of today’s choices on tomorrow’s possibilities. Topics to be addressed include twenty-first century life and career skills; higher order thinking, communication, leadership, and management processes; exploration of personal aptitudes, interests, values, and goals; examining multiple life roles and responsibilities as individuals and family members; planning and building employability skills; transferring school skills to life and work; and managing personal resources. This course includes reviewing the 16 national career clusters and Indiana's College and Career Pathways, in depth investigation of one or more pathways, reviewing graduation plans, developing career plans, and developing personal and career portfolios. A project-based approach, including computer and technology applications, cooperative ventures between school and community, simulations, and real life experiences, is recommended.

- Qualifies as one of the FACS courses a student can take to waive the Health & Wellness graduation requirement. To qualify for a waiver, a student must take three of the approved courses. For more information, please see 511 IAC 6-7.1-4(c) (6).
- Counts as a Directed Elective or Elective for all diplomas

DIGITAL APPLICATIONS AND RESPONSIBILITY (DOE 4528)

1 Credit 1 Trimester Grades 9 - 12

Prerequisite: None

Digital Applications and Responsibility prepares students to use technology in an effective and appropriate manner in school, in a job, or everyday life. Students develop skills related to word processing, spreadsheets, presentations, and communications software. Students learn what it means to be a good digital citizen and how to use technology, including social media, responsibly. Students expand their knowledge of how to use digital devices and software to build decision-making and problem-solving skills. Students should be provided with the opportunity to seek industry-recognized digital literacy certifications.

- Counts as a Directed Elective or Elective for all diplomas

INTRODUCTION TO COMPUTER SCIENCE 1, 2 (DOE 4803)

2 Credits 2 Trimesters Grades 9 - 12

Prerequisite: None

Introduction to Computer Science allows students to explore the world of computer science. Students will gain a broad understanding of the areas of composing computer science. Additionally, there is a focus on the areas of computer programming, gaming/mobile development, and artificial intelligence/robotics.

- Counts as a Directed Elective or Elective for all diplomas

COMPUTER SCIENCE I-A, I-B (DOE 4801)

2 Credits 2 Trimesters Grades 10 - 12

Prerequisite: Introduction to Computer Science

Computer Science I introduces the structured techniques necessary for the efficient solution of business-related computer programming logic problems and coding solutions into a high-level language. The fundamental concepts of programming are provided through explanations and effects of commands and hands-on utilization of lab equipment to produce accurate outputs. Topics include program flow-charting, pseudo coding, and hierarchy charts as a means of solving problems. The course covers creating file layouts, print charts, program narratives, user documentation, and system flowcharts for business problems; algorithm development and review, flowcharting, input/output techniques, looping, modules, selection structures, file handling, control breaks, and offers students an opportunity to apply skills in a laboratory environment.

- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a science course requirement for all diplomas
- Qualifies as a quantitative reasoning course

PLTW CYBERSECURITY A, B (DOE 5253)

2 Credits 2 Trimesters Grade 11-12

Prerequisite: Computer Science I

PLTW Cybersecurity is a full-year course. The design of the course exposes high school students to the ever growing and far reaching field of cybersecurity. Students accomplish this through problem-based learning, where students role-play as cybersecurity experts and train as cybersecurity experts do. PLTW Cybersecurity gives students a broad exposure to the many aspects of digital and information security, while encouraging socially responsible choices and ethical behavior. It inspires algorithmic thinking, computational thinking, and especially, “outside-the-box” thinking. Students explore the many educational and career paths available to cybersecurity experts, as well as other careers that comprise the field of information security. The course contains the following units of study: Personal Security, System Security, Network Security, and Applied Cybersecurity.

- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a science course requirement for all diplomas
- Qualifies as a quantitative reasoning course

MARKETING FUNDAMENTALS 1, 2 (DOE 5914)

(FORMERLY Principles of Marketing 1, 2)

2 Credits 2 Trimesters Grades 11-12

Prerequisite: Principles of Business (for the 2025 cohort and beyond)

Principles of Marketing take place every day of your life and in every job you will hold. This is a class designed to teach students not only about the various functions of marketing, but also how each function fits with the others. Throughout the course, students will learn about marketing in a global economy, sports and entertainment marketing, fashion merchandising, E-commerce, developing a new product, professionalism, and also will be able to create an advertising campaign and learn about possible careers in Marketing.

- Counts as a Directed Elective or Elective for all diplomas
- Potential Dual Credit through Vincennes University (3 college credits – must take 1 and 2 in the same year for Dual Credit - ONLY 11TH AND 12TH GRADERS CAN EARN COLLEGE CREDIT FOR THIS COURSE)
- “Concentrator A” Course for the 2025 Business Pathways

PRINCIPLES OF BUSINESS MANAGEMENT

2 Credits 2 Trimesters Grades 10-12

Prerequisite: Introduction to Business

Learn how to be a leader and a team player! Develop skills through planning, organizing, staffing, leading, and controlling. Participate in team building activities and understand what it takes to motivate workers. Principles of Business Management focuses on the roles and responsibilities of managers as well as opportunities and challenges of ethically managing a business in the free enterprise system.

- Counts as a Directed Elective or Elective for All Diplomas
- Potential Dual Credit through Vincennes University (3 college credits - must take 1 and 2 in the same year for Dual Credit)

INTRODUCTION TO ACCOUNTING/ADVANCED ACCOUNTING

2 Credits 2 Trimesters Grades 11-12

Prerequisite: None

Learn the “language” of business. Understand online and manual financial systems. Maintain accounting records for REAL businesses operated here at MHS. Use GAAP procedures for proprietorships and partnerships using double entry accounting.

This course presents the complete accounting cycle for keeping records for both a service-type business and a merchandising business. Instruction is given on the principles and methods of recording business transactions, preparation of financial reports, and interpretation of records.

Other topics included are petty cash, sales tax, bad debts, depreciation, and notes and interest. A practice set is also included. Students will find this course helpful in keeping business records as well as their own personal financial records. It provides knowledge that can be applied in the workforce or education beyond high school. Provide students with accounting knowledge that is essential for any business degree or profession. Students will have the opportunity to maintain accounting records for a REAL business operated here at school.

- Counts as a Directed Elective or Elective for All Diplomas
- Potential Dual Credit through Vincennes University (3 college credits - must take 1 and 2 in the same year for Dual Credit)

COMPUTER TECH SUPPORT

1-3 Credits 1-3 Trimesters Grades 9-12

Prerequisite: Application Procedure

ARTIE INTEL is the group name for the students in this course. Computer Tech Support allows students to explore how computers work. Students learn the functionality of hardware and software components as well as suggested best practices in maintenance and safety issues.

Through hands-on activities and labs, students learn how to assemble and configure a computer, install operating systems and software, and troubleshoot hardware and software problems.

- Counts as a Directed Elective or Elective for all diplomas

SPORTS AND ENTERTAINMENT MARKETING

2 Credits 2 Trimesters Grades 11-12

Prerequisite: Principles of Marketing

Students taking this course will build upon their prior knowledge of marketing and learn how to apply it directly to sports, recreation and entertainment industries. Students will apply what they are learning directly to marketing sports and entertainment activities here at Penn High School for a more hands-on learning experience.

- Counts as a Directed Elective or Elective for all diplomas

ENTREPRENEURSHIP AND NEW VENTURES CAPSTONE

2 Credits 2 Trimesters Grade: 12

Prerequisite: Principles of Business Management or Marketing

Learn how to be your own boss! Operate a school-based business and develop skills & tools critical for starting & succeeding in a new venture.

Do you dream of owning your own business someday? Do you want to learn what it's like to run your own business? Well, now you can, if you take Entrepreneurship & New Ventures class here at MHS. Students will operate a school-based business and develop skills & tools critical for starting & succeeding in a new venture. Students will gain actual hands-on experience of printing t-shirts and wall clings.

Entrepreneurship & New Ventures is designed to give students the skills they need to effectively plan, market, finance, and manage a small business. This course covers topics such as planning, knowing customers and competitors, finding a location, developing a marketing plan, small business assistance, franchising and finances. Students will create an original business plan throughout the semester for the business of their choice.

- Potential Dual Credit through Vincennes University (3 college credits--must take 1 and 2 in the same year for Dual Credit)
- Counts as a Directed Elective or Elective for all diplomas

STRATEGIC MARKETING

2 Credits 2 Trimesters Grade: 12

Prerequisite: Principles of Business Management OR Marketing

A continuation and expansion of the Marketing class. In this class, we will explore the marketing mix in more detail and work with local companies with real marketing problems. Students will be responsible for more hands-on projects and critical thinking about marketing for businesses, careers in marketing and how entrepreneurs need and use marketing. Students will be conducting different forms of marketing research, creating an in-depth marketing plan for an existing company, and producing effective advertising campaigns.

- Counts as a Directed Elective or Elective for all diplomas

WORK BASED LEARNING (Internship)

3-5 Credits per Trimester (6 credits Max.) Grade 12

Prerequisite: Core 40 courses, attendance and discipline records will be reviewed. An application and interview process must be completed during a student's junior year.

Work Based Learning enables students to gain knowledge of their career field in a non-traditional way. Interns report to site(s) in the community Monday-Thursday of each week. Students do

related learning projects in an Internship class on Fridays. An internship may be done in any career field from two to five periods a day. Credit is received for each period the student interns

- Counts as a Directed Elective or Elective for all diplomas

BUSINESS MATH 1, 2

2 Credits 2 Trimesters Grades 10-12

Prerequisite: Algebra I

Business Math is a course designed to prepare students for roles as entrepreneurs, producers, and business leaders by developing abilities and skills that are part of any business environment. A solid understanding of math including algebra, basic geometry, statistics, and probability provides the necessary foundation for students interested in careers in business and skilled trade areas. The content includes mathematical operations related to accounting, banking and finance, marketing, and management. Instructional strategies should include simulations, guest speakers, tours, Internet research, and business experiences.

- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Mathematics requirement for the General Diploma or Certificate of Completion only
- Qualifies as a quantitative reasoning course

CAREER INFORMATION & EXPLORATION (JAG)

3 Credits 3 Trimesters Grades 11 & 12

Prerequisite: Application Process

Jobs for America's Graduates (JAG) is a state-based national non-profit organization dedicated to preventing dropouts among young people who are most at-risk. In more than three decades of operation, JAG has delivered consistent, compelling results--helping nearly three-quarters of a million young people stay in school through graduation, pursue postsecondary education and secure quality entry-level jobs leading to career advancement opportunities. Their mission helps to resolve our country's dropout and transition problems by expanding state organizations and local programs that help young people greatest at risk overcome barriers to graduation from high school and become college and career ready!

- Counts as an elective credit for all diplomas

[Back to Table of Contents](#)

CONSUMER & FAMILY SCIENCE COURSES

INTRODUCTION TO FASHION & TEXTILES I (Formerly Intro to Fashion and Textiles I)

1 Credit 1 Trimester Grades 9-12

Prerequisite: None

This course addresses knowledge and basic skills related to fashion and textiles. Topics of exploration include clothing and textiles selection, critical thinking applied to consumer options for sewing and related to equipment and tools; care and maintenance of textile products, equipment, and tools. Students are responsible for purchasing supplies for their individual class projects.

- Counts as an elective credit for all diplomas
- Fulfills a Fine Arts requirement for the Academic Honors Diploma
- A Career and Technical Course (CTE)

FASHION & TEXTILES CAREERS II (Formerly Intro to Fashion and Textiles II)

1 Credit 1 Trimester Grades 9-12

Prerequisite: Fashion & Textiles Careers I

This course builds on the foundation of Fashion & Textiles I with more in depth projects and application of the Fashion and Textile industry. This is a great course for anyone wishing to complete an internship in the marketing, graphic design, fashion, and business industry as there is a possibility of on-the-job training with this course.

- Counts as an elective credit for all diplomas
- Fulfills a Fine Arts requirement for the Academic Honors Diploma
- A Career and Technical Course (CTE)

HUMAN AND SOCIAL SERVICES I-1, I-2

2 Credits 2 Trimesters Grades 9-12

Prerequisite: None

Service learning extends to learning beyond the classroom into the community and provides students with an opportunity to use skills and knowledge in real-life situations. Engaging, research-based projects emphasize critical thinking, teamwork, and collaboration. Major projects use the national service-learning standards as guidelines. The standards include meaningful service, link to curriculum, reflection, diversity, youth voice, partnerships, progress monitoring and duration/intensity. Service-learning strengthens connections with the school and community, while encouraging a sense of caring for others. Students learn to be advocates, in addition to providing indirect and direct services to others. Cooking will play an integral part of our coursework as we explore the different aspects and careers of Human and Social Services.

- Counts as an elective credit for all diplomas
- A component of the Health Services and Hospitality & Human Services career clusters (CTE course)

HUMAN AND SOCIAL SERVICES II-1, II-2

2 Credits 2 Trimesters Grades 10-12

Prerequisite: Human & Social Services I

This course focuses on a more in depth look into the area of Human and Social Services. Opportunities are provided to analyze career pathways and training in the field, as well as receive hands on training and guidance from professionals at on-site locations. Projects are created and implemented to gain knowledge and experience in the field. Volunteer/Work opportunities in the community with also be available. Portfolios will be designed to display volunteer/work experiences.

- Counts as an elective credit for all diplomas
- A component of the Health Services and Hospitality & Human Services career clusters (CTE course)

CHILD DEVELOPMENT

1 Credit

1 Trimester

Grades 9 - 12

Prerequisite: None

Child Development is an introductory course for all students as a life foundation and academic enrichment; it is especially relevant for students interested in careers that draw on knowledge of children, child development, and nurturing of children. This course addresses issues of child development from conception/prenatal through age 3. It includes the study of prenatal development and birth; growth and development of children; child caregiving and nurturing; and support systems for parents and caregivers. A project-based approach that utilizes higher order thinking, communication, leadership, management processes, and fundamentals to college and career success is recommended in order to integrate these topics into the study of child development. Direct, concrete mathematics and language arts proficiencies will be applied. Authentic applications such as introductory laboratory/field experiences with young children and/or service learning that build knowledge of children, child development, and nurturing of children are strongly recommended. This course provides the foundation for continuing and post-secondary education in all career areas related to children, child development, and nurturing of children.

- Counts as a Directed Elective or Elective for all diplomas

ADVANCED CHILD DEVELOPMENT

1 Credit

1 Trimester

Grades 9 - 12

Prerequisite: Child Development

Advanced Child Development is for those students interested in life foundations, academic enrichment, and/or careers related to knowledge of children, child development, and nurturing of children. This course addresses issues of child development from age 4 through age 8 (grade 3). It builds on the Child Development course, which is a prerequisite. Advanced Child Development includes the study of professional and ethical issues in child development; child growth and development; child development theories, research, and best practices; child health and wellness;

teaching and guiding children; special conditions affecting children; and career exploration in child development and nurturing. A project-based approach that utilizes higher order thinking, communication, leadership, management, and fundamentals to college and career success is recommended in order to integrate these topics into the study of child development. Direct, concrete mathematics and language arts proficiencies will be applied. Service learning, introductory laboratory/field experiences with children in preschool and early elementary school settings, and other authentic applications are strongly recommended. This course provides a foundation for continuing and post-secondary education in all career areas related to children, child development, and nurturing of children.

- Counts as a Directed Elective or Elective for all diplomas

EARLY CHILDHOOD EDUCATION I-1, I-2

2 Credits 2 Trimesters Grades 9-12

Prerequisite: None

This course addresses the knowledge, skills, attitudes, and behaviors associated with supporting and promoting optimal growth and development of infants and children. Topics include consideration of roles, responsibilities and challenges of parenthood, human sexuality, adolescent pregnancy, prenatal development, preparation for birth, the birth process, meeting the physical, social, emotional, intellectual, moral, and cultural growth and developmental needs of infants.

- Counts as an elective credit for all diplomas
- A component of the Educational & Training and Health Science career clusters (CTE course)

EARLY CHILDHOOD EDUCATION II-1, II-2

2 Credits 2 Trimesters Grades 11-12

Prerequisite: Early Childhood Education I with a grade of “C” or better

In this sequential course, more complex issues of child development and early childhood education with emphasis on guiding physical, social, emotional, intellectual, moral, and cultural development throughout childhood, including school age children.

- Counts as an elective credit for all diplomas
- A component of the Educational & Training and Health Science career clusters (CTE course)

HUMAN DEVELOPMENT & WELLNESS (Formerly Relationships)

1 Credit 1 Trimester Grades 9-12

Prerequisite: None

This course addresses development and wellness of individuals and families throughout the life cycle.

Topics include human development and wellness theories, principles and practices; roles,

responsibilities, and functions of families and family members throughout the life cycle; individual and family wellness planning, prevention and management of illnesses and disease.

- Counts as an elective credit for all diplomas
- A component of the Health Science career cluster (CTE course)

HOUSING & INTERIOR DESIGN I-1, I-2

2 Credits 2 Trimesters Grades 9-12

Prerequisites: None

In this course, the following topics will be explored: principles of design to creating aesthetic and functional residential and commercial environments; housing and interiors materials and products; designing, drafting, space planning, and sketching.

- Counts as an elective credit for all diplomas
- Fulfills a Fine Art requirement for the Academic Honors diploma
- A Career and Technical Education course (CTE)

[Back to Table of Contents](#)

FINE ARTS COURSES

VISUAL ARTS

INTRODUCTION TO TWO-DIMENSIONAL ART

1 Credit 1 Trimester Grades 9-12

Prerequisite: None

Introduction to Two-Dimensional Art students will have introductory experiences in basic drawing skills, painting and color theory, commercial art (commercial design) and art occupations. Along with art production skills, art projects will stress the awareness and use of the elements and principles of design as applied to all areas of art in order to recognize well-designed two-dimensional art objects. To help students learn to enjoy and understand artists and art objects, art history, aesthetics, and art criticism will be introduced.

You do not have to already have a highly developed ability in art to enroll in the Introduction to Art Two-Dimensional course. A willingness to work is expected from all students and a willingness to interact with the teacher on assignments is necessary. Any students, who have a desire to learn more about various types of art, are encouraged to enroll in the Introduction to Two-Dimensional Art course. In all art classes, creativity is stressed and original ideas are encouraged.

It is strongly recommended that students enroll in both Introduction to Two-Dimensional Art and Introduction to Three-Dimensional Art if they desire a well-balanced introduction to the subject of art at the high school level or may be considering an art related career.

Note: The Introduction to Two-Dimensional Art course is the introduction to and the prerequisite for all other two-dimensional studio art courses. The Introduction to Two-Dimensional Art course must be taken to enroll in Commercial Design, Computer Graphics, and Drawing, and Painting courses

- Counts as an Elective for All Diplomas
- Fulfills a Fine Art Credit for Academic Honors

INTRODUCTION TO THREE-DIMENSIONAL ART

1 Credit 1 Trimester Grades 9-12

Prerequisite: None

In the Introduction to Three-Dimensional Art course students will have introductory experiences in ceramics, jewelry, and sculpture. Along with art production skills, art projects will stress the awareness and use of the elements and principles of design as applied to all areas of art in order to recognize well-designed three-dimensional art objects. To help students learn to enjoy and understand artists and art objects, art history, aesthetics, and art criticism will be introduced.

You do not have to already have a highly developed ability in art to enroll in the Introduction to Three-Dimensional Art course. A willingness to work is expected from all students and a willingness to interact with the teacher on assignments is necessary. Any students, who have a desire to learn more about various types of art, are encouraged to enroll in the Introduction to Three-Dimensional Art course. In all art classes, creativity is stressed and original ideas are encouraged.

Note: The Introduction to Three-Dimensional Art course is the introduction to and the prerequisite for all other three-dimensional studio art courses. The Introduction to Three-Dimensional Art course must be taken before enrolling in Ceramics, Jewelry, and Sculpture courses

- Counts as an Elective for All Diplomas
- Fulfills a Fine Art Credit for Academic Honors

ART HISTORY I

1 Credit 1 Trimester Grades 9-12

Prerequisite: None

Note: This course is for students who do not have a strong interest in producing art but want to be able to more fully appreciate various types of art.

This non-studio art course seeks to increase the student's awareness, understanding, and tolerance of the visual arts by providing an introduction to the criticism, analysis, interpretation, and judgment of artwork. The major historical art movements will also be surveyed through characteristic examples of art styles using selected art works for analysis. The course will also stress the use of elements and principles of art as well as various theories of the purposes of art in order to make the understanding and appreciation of art more meaningful

- Counts as an Elective for all diplomas

- Fulfills a Fine Art Credit for Academic Honors

ADVANCED ART COURSES

Even though the advanced art courses are organized according to media, the units are developed to provide experiences in seeing and feeling visual relationships, understanding about art objects, (art history), evaluating art products, (art criticism), aesthetics, as well as producing works of art.

CERAMICS I

1 Credit 1 Trimester Grades 9-12

Prerequisite: Either Introduction to Two-Dimensional Art OR Introduction to Three-Dimensional Art completed with a "C" or better or have the instructor's written permission. Introduction to Three-Dimensional Art is recommended.

An introduction to the designing, forming and decorating processes, glaze formation, and the firing of functional pottery with emphasis on hand building techniques and some experience on the potter's wheel

- Counts as an Elective for All Diplomas
- Fulfills a Fine Art Credit for Academic Honors

CERAMICS II

1 Credit 1 Trimester Grades 9-12

Prerequisite: Ceramics I completed with a "C" or better or have the instructor's written permission.

Ceramics II is a continuation of the knowledge, concepts, and skills acquired in Ceramics I with a greater emphasis placed on individual projects. Students create increasingly independent work that is monitored by contract/log forms and student/teacher conferences

- Counts as an Elective for All Diplomas
- Fulfills a Fine Art Credit for Academic Honors

CERAMICS III

1 Credit 1 Trimester Grades 9-12

Prerequisite: Ceramics II completed with a "C" or better or have the instructor's written permission.

Ceramics III is a continuation of the knowledge, concepts, and skills acquired in Ceramics II with a greater emphasis placed on individual projects. Students create increasingly independent work that is monitored by contract/log forms and student/teacher conferences

- Counts as an Elective for All Diplomas
- Fulfills a Fine Art Credit for Academic Honors

CERAMICS IV

1 Credit 1 Trimester Grades 9-12

Prerequisite: Ceramics III completed with a "C" or better or have the instructor's written permission.

Ceramics IV is a continuation of the knowledge, concepts, and skills acquired in Ceramics II with a greater emphasis placed on individual projects. Students create increasingly independent work that is monitored by contract/log forms and student/teacher conferences

- Counts as an Elective for All Diplomas
- Fulfills a Fine Art Credit for Academic Honors

DIGITAL DESIGN I

1 Credit 1 Trimester Grades 9-12

Prerequisite: Either Introduction to Two-Dimensional Art OR Introduction to Three-Dimensional Art completed with a "C" or better or have the instructor's written permission. Introduction to Two-Dimensional Art is recommended.

Note: Because of a limited number of computer workstations available, a student's attendance, previous art course grades, and the student's remaining time in school, will all be considered in gaining admission to this course.

In this course, students are introduced to the computer as a working tool of the visual artist. Using Macintosh computers, students will learn how to create and manipulate images using Adobe Photoshop and Macromedia Flash. Additional emphasis will be placed on importing visual data. This course does not emphasize computer programming or computer languages

- Counts as an Elective for All Diplomas
- Fulfills a Fine Art Credit for Academic Honors

DIGITAL DESIGN II

1 Credit 1 Trimester Grades 9-12

Prerequisite: Digital Design I completed with a "C" or better or have the instructor's written permission.

Digital Design II is a continuation of the knowledge, concepts, and skills acquired in Digital Design I with a greater emphasis placed on individual projects. Students create increasingly independent work that is monitored by contract/log forms and student/teacher conferences

- Counts as an Elective for All Diplomas
- Fulfills a Fine Art Credit for Academic Honors

DIGITAL DESIGN III

1 Credit 1 Trimester Grades 9-12

Prerequisite: Digital Design II completed with a "C" or better or have the instructor's written permission.

Digital Design III is a continuation of the knowledge, concepts, and skills acquired in Digital Design II with a greater emphasis placed on individual projects. Students create increasingly independent work that is monitored by contract/log forms and student/teacher conferences

- Counts as an Elective for All Diplomas
- Fulfills a Fine Art Credit for Academic Honors

DIGITAL DESIGN IV

1 Credit 1 Trimester Grades 9-12

Prerequisite: Digital Design III completed with a "C" or better or have the instructor's written permission.

Digital Design IV is a continuation of the knowledge, concepts, and skills acquired in Digital Design III with a greater emphasis placed on individual projects. Students create increasingly independent work that is monitored by contract/log forms and student/teacher conferences

- Counts as an Elective for All Diplomas
- Fulfills a Fine Art Credit for Academic Honors

DRAWING I

1 Credit 1 Trimester Grades 9-12

Prerequisite: Either Introduction to Two-Dimensional Art OR Introduction to Three-Dimensional Art completed with a "C" or better or have the instructor's written permission. Introduction to Two-Dimensional Art is recommended.

Drawing I is an introduction to basic drawing media with an emphasis on developing skill, visual sensitivity, and an awareness to form. Included will be drawing from still life, nature, human figure, and imagination. Media to be used includes the use of pencil, chalk & pastels, charcoal, and pen & ink

- Counts as an Elective for All Diplomas
- Fulfills a Fine Art Credit for Academic Honors

DRAWING II

1 Credit 1 Trimester Grades 9-12

Prerequisite: Drawing I completed with a "C" or better or have the instructor's written permission.

Drawing II is a continuation of the knowledge, concepts, and skills acquired in Drawing I with a greater emphasis placed on individual projects. Students create increasingly independent work that is monitored by contract/log forms and student/teacher conferences

- Counts as an Elective for All Diplomas
- Fulfills a Fine Art Credit for Academic Honors

DRAWING III

1 Credit 1 Trimester Grades 9-12

Prerequisite: Drawing II completed with a "C" or better or have the instructor's written permission.

Drawing III is a continuation of the knowledge, concepts, and skills acquired in Drawing II with a greater emphasis placed on individual projects. Students create increasingly independent work that is monitored by contract/log forms and student/teacher conferences

- Counts as an Elective for All Diplomas
- Fulfills a Fine Art Credit for Academic Honors

DRAWING IV

1 Credit 1 Trimester Grades 9-12

Prerequisite: Drawing III completed with a "C" or better or have the instructor's written permission.

Drawing IV is a continuation of the knowledge, concepts, and skills acquired in Drawing III with a greater emphasis placed on individual projects. Students create increasingly independent work that is monitored by contract/log forms and student/teacher conferences

- Counts as an Elective for All Diplomas
- Fulfills a Fine Art Credit for Academic Honors

JEWELRY I

1 Credit 1 Trimester Grades 9-12

Prerequisite: Either Introduction to Two-Dimensional Art OR Introduction to Three-Dimensional Art completed with a "C" or better or have the instructor's written permission. Introduction to Three-Dimensional Art is recommended.

Jewelry I is an introduction to the design and construction of original jewelry in various media. Forming processes including piercing, construction, forging, repousse, and enameling will be studied

- Counts as an Elective for All Diplomas
- Fulfills a Fine Art Credit for Academic Honors

JEWELRY II

1 Credit 1 Trimester Grades 9-12

Prerequisite: Jewelry I completed with a "C" or better or have the instructor's written permission.

Jewelry II is a continuation of the knowledge, concepts, and skills acquired in Jewelry I with a greater emphasis placed on individual projects. Students create increasingly independent work that is monitored by contract/log forms and student/teacher conferences

- Counts as an Elective for All Diplomas
- Fulfills a Fine Art Credit for Academic Honors

JEWELRY III

1 Credit 1 Trimester Grades 9-12

Prerequisite: Jewelry II completed with a "C" or better or have the instructor's written permission.

Jewelry III is a continuation of the knowledge, concepts, and skills acquired in Jewelry II with a greater emphasis placed on individual projects. Students create increasingly independent work that is monitored by contract/log forms and student/teacher conferences

- Counts as an Elective for All Diplomas
- Fulfills a Fine Art Credit for Academic Honors

JEWELRY IV

1 Credit 1 Trimester Grades 9-12

Prerequisite: Jewelry III completed with a "C" or better or have the instructor's written permission.

Jewelry IV is a continuation of the knowledge, concepts, and skills acquired in Jewelry III with a greater emphasis placed on individual projects. Students create increasingly independent work that is monitored by contract/log forms and student/teacher conferences

- Counts as an Elective for All Diplomas
- Fulfills a Fine Art Credit for Academic Honors

PAINTING I

1 Credit 1 Trimester Grades 9-12

Prerequisite: Either Introduction to Two-Dimensional Art OR Introduction to Three-Dimensional Art completed with a "C" or better or have the instructor's written permission. Introduction to Two-Dimensional Art is recommended.

Recommendation: Drawing 1 may be of value to students with limited drawing skills before enrolling in Painting I.

Painting I is an introduction to the study of design, physical and emotional characteristics of color, and painting techniques including watercolor and acrylics. Art appreciation and art criticism, historical and contemporary methods of painting will be surveyed

- Counts as an Elective for All Diplomas
- Fulfills a Fine Art Credit for Academic Honors

PAINTING II

1 Credit 1 Trimester Grades 9-12

Prerequisite: Painting I completed with a "C" or better or have the instructor's written permission.

Painting II is a continuation of the knowledge, concepts, and skills acquired in Painting I with a greater emphasis placed on individual projects. Students create increasingly independent work that is monitored by contract/log forms and student/teacher conferences

- Counts as an Elective for All Diplomas
- Fulfills a Fine Art Credit for Academic Honors

PAINTING III

1 Credit 1 Trimester Grades 9-12

Prerequisite: Painting II completed with a "C" or better or have the instructor's written permission.

Painting III is a continuation of the knowledge, concepts, and skills acquired in Painting II with a greater emphasis placed on individual projects. Students create increasingly independent work that is monitored by contract/log forms and student/teacher conferences

- Counts as an Elective for All Diplomas
- Fulfills a Fine Art Credit for Academic Honors

PAINTING IV

1 Credit 1 Trimester Grades 9-12

Prerequisite: Painting III completed with a "C" or better or have the instructor's written permission.

Painting IV is a continuation of the knowledge, concepts, and skills acquired in Painting III with a greater emphasis placed on individual projects. Students create increasingly independent work that is monitored by contract/log forms and student/teacher conferences

- Counts as an Elective for All Diplomas
- Fulfills a Fine Art Credit for Academic Honors

SCULPTURE I

1 Credit 1 Trimester Grades 9-12

Prerequisite: Either Introduction to Two-Dimensional Art OR Introduction to Three-Dimensional Art completed with a "C" or better or have the instructor's written permission. Introduction to Three-Dimensional Art is recommended.

Sculpture I is an introduction to the design of sculpture and the fundamental processes in modeling and casting, construction (assemblage), and carving

- Counts as an Elective for All Diplomas
- Fulfills a Fine Art Credit for Academic Honors

SCULPTURE II

1 Credit 1 Trimester Grades 9-12

Prerequisite: Sculpture I completed with a "C" or better or have the instructor's written permission.

Sculpture II is a continuation of the knowledge, concepts, and skills acquired in Sculpture I with a greater emphasis placed on individual projects. Students create increasingly independent work that is monitored by contract/log forms and student/teacher conferences

- Counts as an Elective for All Diplomas
- Fulfills a Fine Art Credit for Academic Honors

SCULPTURE III

1 Credit 1 Trimester Grades 9-12

Prerequisite: Sculpture II completed with a "C" or better or have the instructor's written permission.

Sculpture II is a continuation of the knowledge, concepts, and skills acquired in Sculpture I with a greater emphasis placed on individual projects. Students create increasingly independent work that is monitored by contract/log forms and student/teacher conferences

- Counts as an Elective for All Diplomas
- Fulfills a Fine Art Credit for Academic Honors

SCULPTURE IV

1 Credit 1 Trimester Grades 9-12

Prerequisite: Sculpture III completed with a "C" or better or have the instructor's written permission.

Sculpture IV is a continuation of the knowledge, concepts, and skills acquired in Sculpture III with a greater emphasis placed on individual projects. Students create increasingly independent work that is monitored by contract/log forms and student/teacher conferences

- Counts as an Elective for All Diplomas
- Fulfills a Fine Art Credit for Academic Honors

[Back to Table of Contents](#)

MUSIC

DEPARTMENT RESTRICTIONS:

Bands and Orchestra require middle school participation as a prerequisite for high school groups. Students with no prior experience who wish to learn to play a musical instrument should contact the appropriate music teacher.

MUSIC HISTORY AND APPRECIATION I

1 Credit 1 Trimester Grades 9-12

Prerequisite: None

Note: This class is open to non-performers as well as singers and instrumentalists.

This course is designed to help students understand and gain a better appreciation for all types of music with an emphasis on choral and instrumental music. A great emphasis is placed on listening to works from composers like Bach, Berlioz, Verdi, and Copland. Musical forms are discussed as well as techniques used by composers that make each work unique and original. Finally, we connect the evolution of classical music to the popular music of today. In class presentations are an integral part of the student's performance in this class.

- An elective for all diplomas
- Fulfills a Fine Arts credit for the Academic Honors diploma

MUSIC THEORY

1 Credit 1 Trimester Grades 9-12

Requirement: While this class is open to non-performers, some prior music reading experience is necessary. If you are not presently enrolled in a music ensemble, approval from the instructor is necessary for enrollment.

The purpose of this course is to give students an in-depth knowledge and understanding of how to read and notate music through the learning of scales, scale patterns, chords, melody, harmony, ear training, composition, and much more. This class will also incorporate listening to music examples from various periods in history, as well as music in today's society.

- An elective for all diplomas
- Fulfills a Fine Arts credit for the Academic Honors diploma

BANDS

INTERMEDIATE CONCERT BAND I (MARCHING BAND)

1 Credit 1 Trimester Grades 9-12

Requirement: All new students to Martinsville High School are required to have 1 trimester of Intermediate Band to be eligible for any other band class that is offered. (The only exception is for percussionists enrolled in the Percussion Ensemble course) Middle School band experience is highly recommended. If a student has no previous school music training, then an audition is required.

The Intermediate Band at MHS puts a particular emphasis on developing individual performance skills on their chosen instrument as well as reading musical notation in a variety of styles. Students will also develop the skills necessary to critique their own performance as well as others. Performances include home football games, Pep Assemblies, and the Fall Foliage Parade.

- An elective for all diplomas
- Fulfills a Fine Arts credit for the Academic Honors diploma

ADVANCED CONCERT BAND II-III (SYMPHONIC)

2 Credits 2 Trimesters Grades 9-12

Requirement: One trimester of Intermediate Concert Band. Students without the trimester of Intermediate Band need approval from the instructor upon successful completion of an audition.

This band is a group of highly trained, dedicated musicians who will sample and perform a variety of concert band literature. Particular emphasis will be put on developing individual performance skills on their chosen instrument as well as reading musical notation in a variety of styles. Students will also develop the skills necessary to critique their own performance as well as others. Required performances include Community Concerts, ISSMA Band Contests, and home basketball games.

- An elective for all diplomas
- Fulfills a Fine Arts credit for the Academic Honors diploma

JAZZ ENSEMBLE I-II-III

3 Credits 3 Trimesters Grades 9-12

Requirement: One trimester of Intermediate Concert Band. Students without the trimester of Intermediate Band need approval from the instructor upon the successful completion of an audition.

Jazz Band provides an opportunity for exceptional musicians to study and perform music from all styles of the jazz idiom. Students who play saxophone, trumpet, trombone, or rhythm section instruments (piano, bass, drums, and guitar) are eligible to audition. Students will learn appropriate performance techniques, and gain an understanding of chord structure and progression as it relates to improvisation. Particular emphasis will be placed on the 12 Bar Blues. Required performances include Community Concerts, ISSMA Band Contests, and local Jazz Festivals.

- An elective for all diplomas
- Fulfills a Fine Arts credit for the Academic Honors diploma

BEGINNING PIANO KEYBOARDING

1 Credit 1 Trimester Grades 9-12

Prerequisite: None

High school students taking this course are offered the opportunity to develop music proficiency and musicianship. The Piano Course will focus on; Music Reading, Rudiments of the Piano, Finger Flexibility and Strength. The Instruction is designed so that students are enabled to connect, examine, imagine, define, try, extend, refine, and integrate music study in other subject areas on a beginning level. Students: (1) perform with proper posture, hand position, fingering, rhythm, and articulation; (2) compose and improvise melodic and harmonic material; (3) create a perform simple accompaniments; (4) listen to, analyze, sight-read, and study the literature performed; (5) study the elements of music as exemplified in a variety of styles; and (6) make interpretive decisions.

- An elective for all diplomas
- Fulfills a Fine Arts credit for the Academic Honors diploma

ORCHESTRA

ADVANCED ORCHESTRA I-II-III (SYMPHONIC)

3 Credits 3 Trimesters Grades 9-12

Prerequisite: Audition

The student signs up for the full year

A variety of string orchestral ensemble literature is played as well as full orchestra literature. Wind and percussion players are selected by directors on the basis of playing ability and interest. Acquaints students with the great volume of orchestral literature; performance before school and community

- An elective for all diplomas
- Fulfills a Fine Arts credit for the Academic Honors diploma

CHOIRS

Acquaints the student with the fundamentals of the singing process; experience of a wide variety of vocal style in choral music; and performances before school and community.

BEGINNING CHORUS (Mbark)

2 Credits 2 Trimesters Grades 9-12

Prerequisite: None

This course is designed to meet the needs of students entering the choral program for the first time or those in need of further skill building before entering an audition group. Activities include part-singing, vocal development, basic musicianship and understanding of the rehearsal process. Emphasis is on individual development at individual rates. No prior experience is necessary

- An elective for all diplomas
- Fulfills a Fine Arts credit for the Academic Honors diploma

INTERMEDIATE CHORUS (Mpact)

3 Credits 3 Trimesters Grades 9-12

Prerequisite: Audition

The student signs up for the full year

Involves the processes of developing choral skills obtained in Beginning Chorus and Middle School Choirs. This course is designed around three-part women's voices and the group performs SSA music from many time periods and of many styles. Emphasis is placed on part-singing, vocal production, musicianship and understanding of the rehearsal process. Solo singing and choreographed movement may be part of this course

- An elective for all diplomas
- Fulfills a Fine Arts credit for the Academic Honors diploma

ADVANCED CONCERT CHORUS (Mbassadors)

3 Credits 3 Trimesters Grades 9-12

Prerequisite: Audition

The student signs up for the full year

The advanced group stresses performing and understanding of all types of choral music. Students continue to refine their individual skills in the areas of part-singing, vocal development, musicianship and interpretation. Advanced Chorus is an SATB choral group that performs Group I and II choral literature. Emphasis is placed on small ensembles (such as barbershop quartets, girls' triple trio, etc.) within this larger group. Solo singing may be part of this course

- An elective for all diplomas
- Fulfills a Fine Arts credit for the Academic Honors diploma

VOCAL JAZZ (Mprov)

3 Credits 3 Trimesters Grades 9-12

Prerequisite: Audition

Note: Members are selected by audition and the group is limited in size by availability of qualified singers. Performances and after-school rehearsals are a major part of the course requirement. Freshmen may audition for this group only with the recommendation of their middle school choir director.

The student signs up for the full year

The Vocal Jazz ensemble is an extremely advanced jazz music ensemble. While students will perform music from any genre's, the primary focus will be on performing college level vocal jazz music. The singing demands are considerable in both flexibility of style, and ability to sing independently. Regular preparation of solos is required, and independent learning is required. This group has a demanding performance schedule, and due to its smaller nature, absences must be kept at a minimum

- An elective for all diplomas
- Fulfills a Fine Arts credit for the Academic Honors diploma

[Back to Table of Contents](#)

THEATRE

ADVANCED THEATRE I

1 Credit 1 Trimester Grades 10-12

Theatre Arts is based on the Indiana Academic Standards for Theatre. Students enrolled in Theatre Arts read and analyze plays, create scripts and theatre pieces, conceive scenic designs, and develop acting skills. These activities incorporate elements of theatre history, culture, analysis, response, creative process, and integrated studies. Additionally, students explore career opportunities in the theatre, attend and critique theatrical productions, and recognize the responsibilities and the importance of individual theatre patrons in their community.

- Counts as an elective credit for all diplomas
- Fulfills a Fine Art credit for the Academic Honors diploma

ADVANCED THEATRE II

1 Credit 1 Trimester Grades 10-12

Prerequisite: Advanced Theatre I

Advanced Theatre Arts is based on the Indiana Academic Standards for Theatre. Students enrolled in Advanced Theatre Arts read and analyze plays and apply criteria to make informed judgments. They draw on events and experiences to create scripted monologues and scenes, create scenic designs for existing plays, and build characters through observation, improvisation and script analysis. These activities should incorporate elements of theatre history, culture, analysis, response, creative process, and integrated studies. Additionally, students explore careers

in theatre arts and begin to develop a portfolio of their work. They also attend and critique theatre productions and identify ways to support the theatre in their community.

- Counts as an elective credit for all diplomas
- Fulfills a Fine Art credit for the Academic Honors diploma
- Potential Dual Credit through Ivy Tech (3 college credits--must take 1 and 2 in the same year for Dual Credit)

[Back to Table of Contents](#)

WORLD LANGUAGE COURSES

WORLD LANGUAGES ARE TAUGHT AS COLLEGE PREPARTORY CLASSES.
WORLD LANGUAGE PLACEMENT IS BASED ON ENGLISH CLASS PLACEMENT.

FRENCH I (LEVEL I) (A, B)

2 Credits 2 Trimesters Grades 9 - 12

Or

3 Credits 3 Trimesters Grades 9 - 12

Prerequisite: English class placement determines enrollment.

Recommendations: This course is considered an academic level course. Students who are not successful in this course should not continue into the next trimester or the next year.

Students will be able to engage in simple conversations or write simple texts, asking and answering basic questions concerning greetings, school schedules, daily activities, household chores, food, and family. In listening, speaking, reading and writing, students will be able to use and understand basic structures of the French language. Students will be able to compare and contrast French culture and American culture as reflected in the topics mentioned.

- Counts as a directed elective credit for all diplomas
- Fulfills the World Language requirement for the Academic Honors diploma

FRENCH II (LEVEL II) (A, B)

2 Credits 2 Trimesters Grades 10-12

Prerequisite: French I

Recommendations: Strongly recommend a grade of "C" in French I, or teacher's written approval. Students who are not successful in this course should not continue into the next trimester or the next year.

While using LEVEL I knowledge and skills and extending the experience of reading, writing, listening, and speaking, students will be able to engage in basic conversations or write simple descriptions concerning their health, daily routine, giving directions, and expressing preferences. Students will be able to use and understand more basic structures in the language. Students will continue to identify cultural practices and behaviors in French culture

- Counts as a directed elective credit for all diplomas
- Fulfills the World Language requirement for the Academic Honors diploma

FRENCH III (LEVEL III) (A, B)

2 Credits 2 Trimesters Grades 11-12

Prerequisite: French II

Recommendations: Strongly recommend a grade of "C" in French II or teacher's written approval. Students who are not successful in this course should not continue into the next trimester or the next year.

Using previous levels of knowledge and skills and applying more advanced structures, students will be able to comprehend and discuss cultural readings and authentic texts. Students will be able to present information, concepts, and ideas to an audience of listeners or readers on a variety of topics. In addition to describing cultural practices and behaviors, the students will demonstrate knowledge of topics such as the fine arts, literature, and history

- Counts as a directed elective credit for all diplomas
- Fulfills the World Language requirement for the Academic Honors diploma

FRENCH ADVANCED PLACEMENT (1, 2) H

2 Credits 2 Trimesters Grade 12

Prerequisite: French III

Recommendations: Strongly recommend a grade of "C" in French III or teacher's written approval.

Students will be able to communicate orally or in writing with members of the world culture on a variety of topics. They will also be able to analyze differences between identified grammatical structures of English and French. Students will be able to appreciate and comprehend longer readings, plays, and films representative of French culture

- Counts as a directed elective credit for all diplomas
- Fulfills the World Language AND AP requirement for the Academic Honors diploma

SPANISH I (LEVEL I) (A, B)

2 Credits 2 Trimesters Grades 9 - 12

Or

3 Credits 3 Trimesters Grades 9 - 12

Prerequisite: English class placement determines enrollment.

Recommendations: This course is considered an academic level course. Students who are not successful in this course should not continue into the next trimester or the next year.

Students will be able to engage in simple conversations or write simple texts, asking and answering basic questions concerning greetings, school schedules, daily activities, household chores, food, and family. In listening, speaking, reading and writing, students will be able to use and understand basic structures of the Spanish language. Students will be able to compare and contrast Hispanic culture and American culture as reflected in the topics mentioned.

- Counts as a directed elective credit for all diplomas
- Fulfills the World Language requirement for the Academic Honors diploma

SPANISH II (LEVEL II) (A, B)

2 Credits 2 Trimesters Grades 10-12

Prerequisite: Spanish I

Recommendations: Strongly recommend a grade of "C" in Spanish I, or teacher's written approval. Students who are not successful in this course should not continue into the next trimester or the next year.

While using Spanish I knowledge and skills and extending the experience of reading, writing, listening, and speaking, students will be able to engage in basic conversations or write simple descriptions concerning their health, daily routine, giving directions, and expressing preferences. Students will be able to use and understand more basic structures in the language. Students will continue to identify cultural practices and behaviors in Hispanic culture

- Counts as a directed elective credit for all diplomas
- Fulfills the World Language requirement for the Academic Honors diploma

SPANISH III (LEVEL III) (A, B)

2 Credits 2 Trimesters Grades 11-12

Prerequisite: Spanish II

Recommendations: Strongly recommend a grade of "C" in Spanish II or teacher's written approval.

Students who are not successful in this course should not continue into the next trimester or the next year.

Using previous levels of knowledge and skills and applying more advanced structures, students will be able to comprehend and discuss cultural readings and authentic texts. Students will be able to present information, concepts, and ideas to an audience of listeners or readers on a variety of topics. In addition to describing cultural practices and behaviors, the students will demonstrate knowledge of topics such as the fine arts, literature, and history

- Counts as a directed elective credit for all diplomas
- Fulfills the World Language requirement for the Academic Honors diploma

SPANISH ADVANCED PLACEMENT (1, 2) H

2 Credits 2 Trimesters Grade 12

Prerequisite: Spanish III

Recommendations: Strongly recommend a grade of "C" in Spanish III or teacher's written approval.

Students will be able to communicate orally or in writing with members of the foreign culture on a variety of topics. They will also be able to analyze differences between identified grammatical structures of English and Spanish. Students will be able to appreciate and comprehend longer readings, plays, and films representative of Hispanic culture

- Counts as a directed elective credit for all diplomas
- Fulfills the World Language AND AP requirement for the Academic Honors diploma

WORLD LANGUAGE ADVANCED PLACEMENT (3) H

1 Credit 1 Trimester Grade 12

Prerequisite: French AP (1, 2) or Spanish AP (1, 2)

This multi-language class has the dual goals of familiarizing students with the Advanced Placement language tests themselves and of continuing the students' previous world language learning experience in a general way. Students will take practice tests, learn to use testing equipment, and work extensively on organizing and writing compositions. They will also continue to develop: the ability to understand spoken language in various contexts; a vocabulary rich enough for reading a variety of print materials without a dictionary; and the ability to express themselves coherently, resourcefully, and with reasonable fluency and accuracy in both written and spoken forms

- Counts as a directed elective credit for all diplomas
- Fulfills the World Language and AP requirement for the Academic Honors diploma

AMERICAN SIGN LANGUAGE (LEVEL I)

2 Credits 2 Trimesters Grades 9-12

Prerequisite: None

****Online course through Indiana Online Academy****

Have you ever been fascinated by watching two people communicate with their hands and wish you knew what they were saying? Do you want to learn a unique language not offered at many Indiana high schools? Did you know that if you learn American Sign Language, you can converse easily with another ASL user through windows, doors, with your mouth full of food, and even underwater? First semester of American Sign Language will give students a peek into Deaf culture while building critical vocabulary skills necessary to communicate with other ASL users.

- Counts as a directed elective credit for all diplomas
- Fulfills the World Language requirement for the Academic Honors diploma

AMERICAN SIGN LANGUAGE (LEVEL II)

2 Credits 2 Trimesters Grades 10-12

Prerequisite: ASL I and a "C" or better in ASL I

****Online course through Indiana Online Academy****

American Sign Language II is an extension of basic aspects taught in American Sign Language I – basic vocabulary, structure, syntax, and grammar. Students will continue to focus on fingerspelling, numbers, facial grammar, and sentence structure while developing the conversational/cultural behaviors necessary to hold a beginning-level conversation. More examples of Deaf culture will be presented to aid student development of awareness and appreciation for the unique language. Students will also have the opportunity to build receptive

and expressive sign vocabulary, use signing space, and further use of non-manual components of ASL grammar including facial expression and body postures.

- Counts as a directed elective credit for all diplomas
- Fulfills the World Language requirement for the Academic Honors diploma

AMERICAN SIGN LANGUAGE (LEVEL III)

2 Credits 2 Trimesters Grades 10-12

Prerequisite: ASL II and a “C” or better in ASL II

****Online course through Indiana Online Academy****

American Sign Language III is a continuation of American Sign Language I and II expanding the emphasis of ASL grammar, vocabulary development, conversational skills, and Deaf Culture.

Students will enhance both expressive and receptive skills by preparing short stories, narratives, dialogue, and describing general surroundings. Students will learn how to express more abstract concepts in ASL and understand conversational behaviors and various involved in Deaf Culture.

- Counts as a directed elective credit for all diplomas
- Fulfills the World Language requirement for the Academic Honors diploma

[Back to Table of Contents](#)

HEALTH/PHYSICAL EDUCATION COURSES

PHYSICAL EDUCATION I

1 Credit 1 Trimester Grades 9-10

Prerequisite: None

Physical Education I helps to identify what a student should know and be able to do as a result of a physical education program. The goal is to maintain appropriate levels of cardio-respiratory endurance, muscular strength and endurance, flexibility, and body composition necessary for a healthy and productive life. Physical education I focuses on instructional strategies which provide students with opportunities to actively participate in at least four (4) of the following: team sports; dual sports activities; individual physical activities; outdoor pursuits; self-defense and martial arts; aquatics; gymnastics; and dance. Ongoing assessment includes both written and performance-based skill evaluations as well as active participation on a daily basis.

- A graduation requirement for all diplomas
- A component of all career pathways

PHYSICAL EDUCATION II

1 Credit 1 Trimester Grades 9-10

Prerequisite: The student must successfully complete Physical Education I

Physical Education II builds on the foundation laid in Physical Education I. PE II offers the student the chance to develop or refine skills and attitudes that promote lifelong fitness. Without repeating offerings from Physical Education I, it provides students with opportunities to actively participate in four (4) of the following areas: team sports; dual sport activities; individual physical activities; outdoor pursuits; self-defense and martial arts; aquatics; gymnastics; and dance within the framework of lifetime physical activities and fitness. Ongoing assessment includes both written and performance-based skill evaluation as well as active participation on a daily basis.

- A graduation requirement for all diplomas
- A component of all career pathways

ELECTIVE PE: INTRODUCTION TO WEIGHT TRAINING & FITNESS

1 Credit 1 Trimester Grades 10-12

Prerequisite: The student must have successfully completed Physical Education I & II

During this course the student will learn the basic principles of weight training as related to lifelong fitness. This will include the use of machines and free weights. The course will also include aerobics, running, stretching, endurance, body composition and a variety of activities that will promote lifelong fitness. This course will also help the student identify where such activities could be continued beyond this course and high school in general.

- This class may only be taken once and cannot be audited or repeated for credit
- An Elective for All diplomas
- A component of all career clusters

ELECTIVE PE: STRENGTH TRAINING & CONDITIONING FOR ATHLETES

1 Credit 1 Trimester Grades 9-12

Prerequisite: Must be currently on an IHSAA sport roster and recommended by the head coach through the athletic office.

Note: May be taken two times per year.

Can not be taken by a senior who has finished his/her playing career at MHS.

Can not be taken by a senior who was not on a roster for a sport his/her junior year.

Classes will be grouped in like sports and assigned to certain trimesters requested by respective coaches.

During this course the student will learn the basic principles of weight training. This will include the use of machines and free weights. The student will then use these devices to increase his or her strength, power, body tone, or speed.

- An Elective for All diplomas
- A component of all career clusters

ELECTIVE PE: ACTIVITIES FOR A LIFETIME

1 Credit 1 Trimester Grades 11-12

Prerequisite: The student must have successfully completed Physical Education I & II

This one trimester course is designed to give the student an introduction to a variety of activities that could be continued long after the student is out of the school setting. Such activities as golf, volleyball, bowling, archery, and other active pursuits will be explored during the trimester. This class may only be taken once and cannot be audited or repeated for credit

- An Elective for All diplomas
- A component of all career clusters

HEALTH AND WELLNESS EDUCATION

1 Credit 1 Trimester Grades 10-12

Prerequisite: None

Health & Wellness provides the basis to help students adopt and maintain healthy behaviors. Health education contributes directly to a student's ability to successfully practice behaviors that protect and promote health and avoid or reduce health risks. This course includes the application of the following priority areas: promoting personal health and wellness; physical activity; healthy eating; promoting safety and preventing unintentional injury and violence; promoting mental and emotional health; a tobacco-free lifestyle and an alcohol and other drug-free lifestyle; and promoting human development and family health. This course provides students with the knowledge and skills of health and wellness core concepts, analyzing influences, accessing information, interpersonal communication, decision-making and goal-setting skills, health-enhancing behaviors, and health and wellness advocacy skills.

- A graduation requirement for all diplomas
- A component of all career pathways

PE WAIVER APPLICATION PROCESS

One Credit may be earned through a completed season of any MHS sponsored IHSAA sport, cheerleading, dance team, marching band, winter drumline, winter guard, show choir and the law enforcement class.

The student may earn 1 credit in PE I and 1 credit in PE II for any one of the activities listed above.

It is the student's responsibility to pick up the waiver in the Guidance office and turn it in to their coach.

JUNIOR RESERVE OFFICER TRAINING CORPS (JR ROTC)

3 Credits 3 Trimesters Grades: 9 - 12

This course is designed to develop: (1) citizenship and patriotism, (2) self-discipline, (3) physical fitness, (4) reliance and leadership, and (5) the skills used in decision making, communications, and problem-solving. The course content and experiences enable the students to understand the

role of the military in support of national objectives and to become familiar with basic military knowledge, gender equity issues, benefits, and requirements. Topics to be included in the course are: (1) military history, (2) ROTC in the military, (3) substance abuse, (4) map reading, (5) marksmanship and firearm safety, (6) military drill, (7) field activities, (8) reserve components, and (9) first aid and hygiene. Opportunities are provided to explore the qualities and traits of courage, self-sacrifice, and integrity. Junior Reserve Officer Training Corps programs must be approved by and meet the requirements of the appropriate military organization.

- Counts as an Elective for all diplomas
 - A PE Waiver can be earned
 - Repeatable up to 8 credits

[Back to Table of Contents](#)

LANGUAGE ARTS COURSES

All English Students are placed in English upon entering grade 9.

Placement is determined through available standardized testing results from various sources, eighth grade language arts/reading grades, and teacher recommendation. Students are placed into the English or English Honors curriculums based on these scores which do include a reading placement level.

Student levels may change based on teacher recommendation. These changes are made by the teacher of record only to the English department chair and the guidance department simultaneously at the end of a trimester.

All students must have eight credits in Language Arts. Core English curriculum is recommended freshman through senior year.

ENGLISH 9 – 12 LANGUAGE, LITERATURE, COMPOSITION

Students enrolled in English 9, English 10, English 11, and English 12 study English with an emphasis on the tie-in between reading and writing literacy.

▶ Students in these courses are enrolled in a college preparatory course.

▶ Students learn writing and composition skills through practice, feedback, and final critique. Writing includes a focus on the 6+1 writing traits -- generation of ideas, organization of the paper and mechanical writing conventions, voice of the writer, writer's word choice and sentence fluency, and final presentation. The writing process of pre-writing, rough draft, revision, editing, and final product is reinforced. Students learn to collect content appropriate for analysis of literature, informal writing, and formal research papers. The Modern Language Association [MLA] is the predominant style used, but American Psychological Association [APA] style is also noted.

- ▶ Appropriate grade level vocabulary lists are used to maintain a consistent vocabulary instruction, but teachers also supplement with additional words from the student reading.
- ▶ All genres of literature are studied throughout the curriculum. Students read and interpret poetry, essay, nonfiction, fiction [short story and novel], and drama. Through the study of the literature, students mesh understanding through oral and written strategies as well as develop higher level thinking skills.

ENGLISH HONORS 9 – 12 LANGUAGE, LITERATURE, COMPOSITION

Students enrolled in English 9 Honors, English 10 Honors, English 11 Honors, and English 12 Honors study English with an emphasis on the tie-in between reading and writing literacy.

» Students in Honors English courses are recommended based on standardized test results, previous English grades, and teacher recommendation. All students are on track to take one or both of the Advanced College Placement [ACP] courses offered during the senior year in conjunction with Indiana University-Bloomington. Those courses are college-level freshman composition and a college-level literature survey course.

» Students learn writing and composition skills through practice, feedback, and final critique. Writing includes a focus on the 6+1 writing traits -- generation of ideas, organization of the paper and mechanical writing conventions, voice of the writer, writer’s word choice and sentence fluency, and final presentation. The writing process of pre-writing, rough draft, revision, editing, and final product is reinforced. Students learn to collect content appropriate for analysis of literature, informal writing, and formal research papers. The Modern Language Association [MLA] is the predominant style used, but American Psychological Association [APA] style is also noted

» Appropriate grade level vocabulary lists are used to maintain a consistent vocabulary instruction, but teachers also supplement with additional words from the student reading.

» All genres of literature are studied throughout the curriculum. Students read and interpret poetry, essay, nonfiction, fiction [short story and novel], and drama. Through the study of the literature, students mesh understanding through oral and written strategies as well as develop higher level thinking skills.

ADVANCED ENGLISH/LANGUAGE ARTS, COLLEGE CREDIT ENGLISH LANGUAGE AND COMPOSITION, ADVANCED COLLEGE PROJECT (ACP) (1, 2) (H)

2 Credits 2 Trimesters Grade 12

Prerequisite: Grade 11 Honors English with junior teacher recommendation, application process, guidance approval.

Note: Students with a “C” average in English may not be accepted into the course.

Course work consists of college readings and writing assignments in various fields of study such as psychology, sociology, folklore, literature, etc.

No tests are given. Grades are based on compositions.

- Fulfills an English/Language Arts credit AND AP credit for Academic Honors
- Dual Credit Potential through IU Bloomington (3 college credits, must take 1 and 2 in the same year for Dual Credit)

CREATIVE WRITING

1 Credit 1 Trimester Grades 10-12

Prerequisite: A grade of at least a “C” or better for honor students or by teacher permission only.

Note: A writing sample must be turned in to the instructor, who may eliminate individuals he/she feels do not have adequate writing skills.

This class is for students who enjoy writing for a variety of tasks and purposes and enjoy expressing themselves through writing. Students keep a digital journal with thoughtful responses to daily: writing prompts, topics, art and current issues. Students complete weekly writing projects involving: poetry, fiction, investigative journalism, playwriting, songwriting, and more!

- Fulfills an English/Language Arts credit for all diplomas

IVY TECH SPEECH 1, 2

2 Credits 2 Trimesters Grades 11-12

Prerequisite: None

Recommendations: Both semesters of this course is highly recommended for all students.

Introduces fundamental concepts and skills for effective public speaking, including audience analysis, outlining, research, delivery, critical listening and evaluation, presentational aids, and use of appropriate technology. Also, many universities require speech/public speaking as a required

- Fulfills an English/Language Arts credits for all diplomas
- Dual Credit Potential through Ivy Tech Bloomington (3 college credits, must take 1 and 2 in the same year for Dual Credit)

MASS MEDIA & ADVANCED MASS MEDIA

2 Credits 2 Trimester Grades 9-10

Prerequisite: None

Recommendations: Open to students in Honors English with at least a “C” average

Mass Media is the recommended prerequisite course to get into Print Publications (yearbook, news magazine, and news website) or Radio/TV Broadcasting (Rewind). It is a survey course of important topics and skills needed for either of those forms of media and builds the foundational knowledge and skills in things like photography, graphic design and layout, news writing, and yearbook fundamentals.

Mass Media is a project driven class and will make you an all-around more awesome human.

- Fulfills an English/Language Arts credit ONLY if the student also takes an AP or Dual Credit course
- Fulfills an elective for all diplomas

ETYMOLOGY

1 Credit 1 Trimester Grades 10-12

Prerequisite: Honors English or “B” average in English recommended.

Etymology has a great practical application. Approximately 60% of the English language is derived from either Latin or Greek (this is an internet fact, so it may be an overestimation). Knowing these roots is great if you are planning to go into any Science, Medical, or Legal work. It will make you infinitely more competitive for Jeopardy, too.

The course is a great preparatory class for standardized test prep (SAT and ACT as examples). The class consists of a weekly review of words, quizzes, 2 tests (Greek and Latin, and the final. Students who study and budget their time properly

- Fulfills an English/Language Arts credit for all diplomas

STUDENT MEDIA 1-3 (Newspaper and Yearbook Publications)

1-3 Credits (8 credits max.) 1-3 Trimesters Grades 10-12

Prerequisite: "C" average in Mass Media and the instructor's recommendation.

Recommended: Publications requires by its nature that students sign up for 3 trimesters each year. However, any student who cannot fit three trimesters into a year schedule, should consider at least a 2 trimester commitment.

Print Publications is the course that constructs the MHS Yearbook, “The Current,” the news magazine “Redline” and the news website Breakingblue.org. It encompasses all aspects of journalism including photography, writing, graphic design, and desktop layout/design. If you are interested in working on Martinsville High School’s award winning print publications, this is the course for you.

- Counts as an elective credit for all diplomas
- Fulfills a Fine Art credit for the Academic Honors diploma

[Back to Table of Contents](#)

MATHEMATICS COURSES

If a student is outstanding in math, he/she may receive permission from the department chairman to take two math courses in the same year (this usually would be Geometry and Algebra II).

ALGEBRA I (1-3)

(1 Elective Credit for Algebra I (1)) (2 Math Credits for Algebra I (2)(3))

3 Trimesters Grades 9-12

Prerequisite: None

Algebra I (1-3) is a course that allows students to complete a full Algebra I course in three rather than two trimesters. Applications to real life situations are prevalent throughout this course. Students are expected to have already mastered computations with whole numbers, fractions, decimals, and percentages. The Texas Instruments TI30-XIIS calculator is required for this course

- A requirement of all diploma types
- A component of all career pathways

ACADEMIC ALGEBRA I (A, B)

2 Credits 2 Trimesters Grades 9-12

Prerequisite: None

Academic Algebra I (A, B) provides a strong foundation for academic math courses. It will establish a working understanding of the terminology, notation, and symbolism of algebra. Topics include the real number system, equations, inequalities, polynomials, factoring, functions, graphing linear equations, systems of equations, radical expressions, quadratic equations, statistics, and probability. Students will be expected to recognize that there is a systematic, deductive approach to solving problems and have the capability to apply algebraic concepts and skills to real life situations. The Texas Instruments TI30-XIIS calculator is required for this course

- Fulfills the Algebra I requirement for all diplomas
- A component of all career pathways

GEOMETRY (1, 2, 3)

(1 Elective Credit for Geometry 1) (2 Math Credits for Geometry 2, 3)

3 Trimesters Grades 10-12

Prerequisite: Algebra I (1-3) or Academic Algebra I (A, B)

Geometry is the first mathematics course in which the student sees a mathematical system, developed from simple definitions and concepts grow into a full and useful body of knowledge. Geometry students will examine the properties of two- and three- dimensional objects. Properties and relationships of geometric objects include the study of points, lines, angles, planes, polygons (with a special focus on quadrilaterals, triangles and right triangles), circles, and polyhedra and other solids. Students will also work on understanding the use of deductive reasoning in order to draw conclusions. The Texas Instruments TI30-XIIS calculator is recommended in this course

- A requirement for Core 40, Academic Honors and Technical Honors diplomas
- A component of all career pathways

ACADEMIC GEOMETRY (A, B)

2 Credits 2 Trimesters Grades 9-10

Prerequisite: A grade of “A” or “B” in either Academic Algebra I (A, B) or 8th Grade Algebra I

Geometry is the first mathematics course in which the student sees a mathematical system, developed from simple definitions and concepts grow into a full and useful body of knowledge. Topics include properties of points, lines and planes, angle relationships, parallel and perpendicular lines, slope, distance and coordinate geometry, deductive reasoning including formal proofs, concepts of congruency and similarity, properties of triangles and circles, constructions, areas, and volumes. A strong background in Algebra I is necessary to successfully complete this course. The Texas Instruments TI30-XIIS calculator is recommended in the course.

- A requirement for Core 40, Academic Honors and Technical Honors diplomas
- A component of all career pathways

ALGEBRA II (1-3)

(1 Elective Credit for Algebra II (1)) (2 Math Credits for Algebra II (2)(3))

3 Trimesters Grades 10 - 12

Prerequisite: Geometry (1-3) and Algebra I (1-3)

Algebra II (1-3) is a course that extends the content of Algebra I and provides further development of the concept of the function. Topics include relations, functions, equations, inequalities, polynomials, algebraic fractions, logarithmic functions, exponential functions, conic sections, sequences, and series. The Texas Instruments TI30-XIIS calculator is required for this course.

- A requirement for Core 40, Academic Honors and Technical Honors diplomas
- A component of all career pathways

ACADEMIC ALGEBRA II (A, B)

2 Credits 2 Trimesters Grades 10-12

Prerequisite: A grade of “A” or “B” in either Academic Algebra I (A, B) or 8th grade Algebra I and Academic Geometry (A, B)

Algebra II provides the student with rapid review of major topics from Algebra I while allowing the students to use algebra as a language for modeling real world situations through problem solving. In addition to reinforcing and introducing new ideas related to Algebra I, new topics include higher degree functions and their graphs, exponential and logarithmic functions, complex numbers, polynomial functions, conic sections, rational expressions and functions, sequences, and series. The Texas Instruments TI30-XIIS calculator is required for this course

- A requirement for Core 40, Academic Honors and Technical Honors diplomas
- A component of all career pathways

STATISTICS, ADVANCED PLACEMENT (1-2-3) (H)

(1 Elective Credit for AP Statistics 1)

(2 Math Credits for AP Statistics 2, 3)

3 Trimesters Grades 11-12

Prerequisite: Geometry and Algebra II (Grade of “C” or better)

Advanced Placement Statistics is a course designed to help students become wise consumers of statistical information. This is achieved through a balanced coverage of statistical theory and application. Topics include frequency distributions, graphical representations of data, measures of central tendency, variance, position, laws of probability, normal and binomial distributions, central limit theorem, estimation, hypothesis testing, linear correlation, regression, and the chi-square distribution. Students are required to take the Advanced Placement Test. It is possible to qualify for college credits with this course. The Texas Instruments TI-84 family of calculators are required for this course

- Fulfills a Core 40 Math credit AND AP credit for Academic Honors diploma
- A component of all career clusters

PRE-CALCULUS/TRIGONOMETRY (1, 2) (H)

2 Credits 2 Trimesters Grades 11-12

Prerequisite: Geometry and Algebra II (Grades of “A” & “B” highly recommended)

Pre-Calculus is a class that requires a strong background in Algebra II in order to be successful. This course provides further study of functions, lines, triangles, quadrilaterals and conics. New topics include parametric functions, vectors, trigonometric functions and identities, polar coordinates, and three-dimensional graphing. The Texas Instruments TI-83 Plus or TI-84 family of calculators are required for this course

- Fulfills a Core 40 Math credit for Academic Honors diploma
- Dual college credit can be earned from Ivy Tech Bloomington

CALCULUS, ADVANCED PLACEMENT (1-2-3) (H)

(2 Math Credits for AP Calculus 1, 2) (1 Elective Credit for AP Calculus 3)

3 Trimesters Grade 12

Prerequisite: Pre-Calculus

Advanced Placement Calculus is a college-level class for students with a strong mathematics background. Students are required to take the Advanced Placement Test. Topics include limits, derivatives, Rolle's and the Mean Value Theorem, maximum and minimum problems, integrals,

differentiation and integration of logarithmic, exponential, and trigonometric functions, L'Hopital's Rule, and infinite series. Students are required to take the Advanced Placement Test. It is possible to qualify for college credits with this course. The Texas Instruments TI-84 family of calculators is required for this course

- Fulfills a Core 40 Math credit AND AP credit for Academic Honors diploma
- Dual college credit can be earned from Ivy Tech Bloomington

[Back to Table of Contents](#)

SCIENCE COURSES

BIOLOGY I (1, 2, 3)

3 Credits 3 Trimesters Grades 10-12

(1 elective + 2 science credits)

Prerequisite: None

This course provides students with a general knowledge of Biology, but covers topics in less detail than is required in Biology I G. The first half of the course introduces students to basic concepts of the scientific method, environment, ecosystems, cellular biology, the molecular basis of life, and energy production used in cells. The second half of the course deals with genetics, evolution, and ecology

- A requirement of all diploma types
- A component of all career pathways

BIOLOGY I G (1, 2)

2 Credits 2 Trimesters Grades 9-12

Prerequisite: Counselor recommendation

First year Biology provides, through regular laboratory investigations, a study of the structures and functions of living organisms and their interactions with their environment. At a minimum, this study explores the functions and processes of cells, tissues, organs, and systems within various species of living organisms and the roles and interdependencies of organisms within populations, communities, ecosystems, and the biosphere. Students have opportunities to: (1) gain an understanding of the history of the development of biological knowledge, (2) explore the uses of biology in various careers, and (3) cope with biological questions and problems related to personal needs and social issues. This course studies life on the cellular level during most of the first trimester. The molecular structure, function, and the manipulation of energy by living organisms are also emphasized. The second trimester focuses on genetics, ecology, and evolutionary theory

- A requirement of all diploma types
- A component of all career pathways

PLTW PRINCIPLES OF BIOMEDICAL SCIENCES (1, 2)

2 Credits 2 Trimesters Grades 9-11

Prerequisite: Biology I

PLTW Principles of Biomedical Sciences provides an introduction to this field through “hands-on” projects and problems. Student work involves the study of human medicine, research processes and an introduction to bioinformatics. Students investigate the human body systems and various health conditions including heart disease, diabetes, hypercholesterolemia, and infectious diseases. A theme throughout the course is to determine the factors that led to the death of a fictional person. After determining the factors responsible for the death, the students investigate lifestyle choices and medical treatments that might have prolonged the person’s life. Key biological concepts included in the curriculum are: homeostasis, metabolism, inheritance of traits, feedback systems, and defense against disease. Engineering principles such as the design process, feedback loops, fluid dynamics, and the relationship of structure to function will be included where appropriate. The course is designed to provide an overview of all courses in the Biomedical Sciences program and to lay the scientific foundation necessary for student success in the subsequent courses

- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Core 40 Science requirement for all diplomas

PLTW HUMAN BODY SYSTEMS (1, 2)

2 Credits 2 Trimesters Grades 10 - 12

Prerequisite: PLTW Principles of Biomedical Sciences (1, 2)

Human Body Systems is a course designed to engage students in the study of basic human physiology and the care and maintenance required to support the complex systems. Using a focus on human health, students will employ a variety of monitors to examine body systems (respiratory, circulatory, and nervous) at rest and under stress, and observe the interactions between the various body systems. Students will use appropriate software to design and build systems to monitor body functions. NOTE: This course aligns with the PLTW Human Body Systems curriculum. Use of the PLTW Curriculum may require additional training and membership in the PLTW network.

- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a science requirement for all diplomas

BIOLOGY, ADVANCED PLACEMENT (1, 2, 3) (H)

3 Credits 3 Trimesters Grades 11-12

(1 elective + 2 science credits)

Prerequisite: Academic Biology I, Chemistry I, and Algebra II with a “B” average or above. Student must be a very strong academic science student. Application process and guidance approval also required.

This three-trimester course follows Indiana University guidelines for courses L112. College credit is earned and a transcript is begun at IU. Additional textbook fee is required.

This course will emphasize human biology, from biochemistry through organ systems and physiology. The class will prepare you to take upper level courses in biology by introducing you to concepts and approaches basic to the field. The goals for this course are to introduce you to how biologists ask questions and design experiments to show and answer those questions. This course will also include the complement of AP recommended labs to accompany the regular lecture component of IU's L112.

- Fulfills a Core 40 Science credit AND AP credit for Academic Honors diploma

EARTH & SPACE SCIENCE I (1, 2)

2 Credits 2 Trimesters Grades 9-10

Prerequisite: None

Earth and Space Science I is the study of the earth's lithosphere, atmosphere, and hydrosphere, and its celestial environment. This course emphasizes the study of energy at work in forming and modifying earth materials, landforms, and continents through geological time. Students have opportunities to gain an understanding of the history of the development of the earth and space sciences, to explore the uses of knowledge of the earth and its environment in various careers, and to cope with problems related to personal needs and social issues

- Fulfills a Core 40 science credit for all diplomas

ENVIRONMENTAL SCIENCE, ADVANCED PLACEMENT (1, 2, 3) (H)

3 Credits 3 Trimesters Grades 10-12

Prerequisite: C or better in Biology and Chemistry or Physics [Chemistry preferred]

This course is designed to provide students with the principles, concepts and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human caused, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them.

- Counts as a Science Course for all diplomas
- Qualifies as a quantitative reasoning course

ANATOMY/PHYSIOLOGY (1, 2)

2 Credits 2 Trimesters Grades 11-12

Prerequisite: Biology I and Chemistry I with a "C" or better.

An introductory comparative anatomy course which compares various structures and characteristics across different animal phyla. Developmental and physiological aspects of the different phyla will also be taken into consideration.

- A Core 40 science credit
- Counts as an elective for all diplomas
- A component of the Emergency & Medical Services AND Nursing career pathways

INTEGRATED CHEMISTRY/PHYSICS (1, 2)

2 Credits 2 Trimesters Grades 10-12

Prerequisite: Algebra I and Biology I with a “C” average or above.

Integrated Chemistry/Physics (ICP) is a laboratory based course in which students explore the fundamental concepts of chemistry and physics. This course is designed for those students not wishing to take advanced levels of chemistry or physics. Students enrolled in this course examine, through the process of scientific inquiry, the structure and properties of matter, chemical reactions, forces, motion, and the interactions between energy and matter. Students will investigate the basics of chemistry and physics in solving real-world problems that may have personal or social consequences beyond the classroom. Laboratory and mathematical principles will be stressed. A calculator with exponent capability is required.

- A Core 40 science credit

CHEMISTRY I (1, 2)

2 Credits 2 Trimesters Grades 10-12

Prerequisite: Algebra I and Biology I with a “B” average or above.

First Year Chemistry allows students to investigate the structure of matter and the mechanisms of its interactions through mathematical and laboratory investigations of matter and chemical reactions. Students have opportunities to: (1) gain an understanding of the history of chemistry, (2) explore the uses of chemistry in various careers, (3) cope with chemical questions and problems related to personal needs and social issues, and (4) learn and practice laboratory safety. Chemistry I is a college preparatory course with an emphasis on mathematical processes. Time will be spent in the laboratory developing skills and techniques with an emphasis on the powers of observation and attention to detail. Students will study the nature and flow of energy, chemical reactions, chemical and physical properties of matter, and the characteristics of commonly occurring elements and compounds. A calculator with the ability to do exponential notation is necessary

- A Core 40 science credit

ADVANCED PLACEMENT CHEMISTRY 1, 2, 3 (H)

3 Credits 3 Trimesters Grades 11 - 12

Prerequisites: Chemistry I, Algebra II

AP Chemistry is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. The content includes: (1) structure of matter: atomic theory and structure, chemical bonding, molecular models, nuclear chemistry; (2) states of matter: gases, liquids and solids, solutions; and (3) reactions: reaction types, stoichiometry, equilibrium, kinetics and thermodynamics.

CHEMISTRY II, ADVANCED COLLEGE PROJECT (1, 2, 3) (H)

3 Credits 3 Trimesters Grades 10-12

(1 Elective + 2 Science credits)

Prerequisite: Chemistry I and Algebra II with a “B” average or above. Student must be a very strong academic science student. Application process and guidance approval also required. This three-trimester course follows Indiana University guidelines for courses C101/C121. College credit is earned and a transcript is begun at IU. Additional textbook fee is required.

Advanced College Project Chemistry is a course that involves the advanced study of the concepts and theories of matter. The laboratory time is increased over Chemistry I and includes more in depth research components. The student should be planning to study science in college. A calculator with the ability to do exponential notation is necessary.

Course may not be dropped after tuition has been paid

- A Core 40 science credit and AP course for Academic Honors diploma
- Dual Credit potential through IU (5 college credits, all three Trimesters must be completed in the same year to earn credit)

CHEMISTRY II, BIOCHEMISTRY (H)

1 Credit 1 Trimester Grades 11-12

Prerequisite: Biology I and Chemistry I with a “B” average or above.

This advanced course concentrates largely on the structures and reactions of organic molecules and their biological significance. Laboratory and writing skills are stressed.

- A Core 40 science credit

PHYSICS I (1, 2)

2 Credits 2 Trimesters Grades 10-12

Prerequisite: Algebra I and Biology I with a “B” average or above.

Physics I aids students in synthesizing the fundamental concepts and principles concerning matter and energy through the laboratory study of mechanics, wave motion, heat, light, electricity, magnetism, electromagnetism, and atomic and nuclear physics. Students have opportunities to: (1) acquire an awareness of the history of physics and its role in the birth of technology, (2) explore the uses of its models, theories, and laws in various careers, and 3) cope with physics questions and problems related to personal needs and social issues

- A Core 40 science credit

PHYSICS, ADVANCED PLACEMENT (1, 2, 3) (H)

3 Credits 3 Trimesters Grades 11-12

(1 Elective + 2 Science credits)

Prerequisite: Physics I and Algebra II with a “B” average or above.

Advanced Placement Physics-Algebra Based is an advanced class, math oriented, with laboratory experiences and follows College Board Entrance Examination guidelines for advanced placement physics. Students are required to take the advanced placement test. It is possible to qualify for college credits with this course

- Fulfills a Core 40 Science credit AND AP credit for Academic Honors diploma

[Back to Table of Contents](#)

SOCIAL STUDIES COURSES

GEOGRAPHY AND HISTORY OF THE WORLD (1, 2)

2 Credits 2 Trimesters Grades 9-12

Prerequisite: None

Students use geographical and historical skills to deepen their understanding of the global themes contained in the Indiana Academic Standards. Geography and History of the World is an alternative to the standard World History course.

The skills provide the research tools needed to think geographically and historically: ask geographic and historical questions; acquire geographic and historical information relevant to these questions; produce maps, timelines, and other graphic representations to organize and display information acquired; interpret maps, timelines, and other graphic representations to solve geographic and historical problems; reach conclusions about the geographic and historical questions posed and give verbal, written, graphic, and cartographic expression to conclusions. The concepts provide the intellectual tools needed to think geographically and historically: change over time, culture landscape, diffusion, human environment interactions, human livelihoods, national character, origin, physical systems, sense of place, spatial distribution, spatial interaction, spatial organization, and spatial variation.

- A Core 40, Academic Honors and Technical Honors requirement

PRE-ADVANCED PLACEMENT WORLD HISTORY 1, 2, 3

3 Credits 3 Trimesters Grades: 9 - 10

Pre-AP World History and Geography Areas of Focus: **Evaluating evidence:** Students acquire knowledge by evaluating evidence from a wide range of primary and secondary sources.

Explaining historical and geographic relationships: Students explain relationships among events and people by marshalling evidence for causality, correlation, continuity, and change over time. **Incorporating evidence:** Students demonstrate command of quantitative, qualitative, and spatial data by effectively incorporating them into written and oral arguments. These big ideas are

addressed across units: Geography, Populations, Culture, State building, Economic systems, Social structures.

- Counts as an elective for all diplomas
- Fulfills the Geography History of the World/World History and Civilization graduation requirement for all diplomas

UNITED STATES HISTORY (1, 2)

2 Credits 2 Trimesters Grades 11-12

3 Credits 3 Trimesters Grades 11-12 for Dual College Credit

Prerequisite: None

A survey of America's history from settlement to the 21st century with heavy concentration on 20th century U.S. political, social and economic issues.

United States History emphasizes national development in the late nineteenth and twentieth centuries and builds upon concepts developed in previous studies of American history. Students in this course also identify and review significant events, figures, and movements in the early development of the nation. After providing such a review, the course gives major emphasis to the interaction of historical events and geographic, social, and economic influences on national development in the late nineteenth and twentieth centuries. A chronological, topical, or comparative approach can be used in developing themes from America's past as they relate to life in Indiana and the United States today.

Students demonstrate the ability to trace and analyze chronological periods and examine the relationships of significant themes and concepts in United States history. Students will be able to sequence historical events, examine cause and effect, identify different perspectives, and relate historical situations to current issues. Opportunities are given to develop critical thinking skills by gathering and organizing information from primary source material and a variety of historical and contemporary sources, accounts, and documents. Investigation of themes and issues include analysis of the importance of cultural pluralism and diversity of opinion in American society. Students learn to exercise their skills as citizens in a democratic society by engaging in problem solving and civic decision making in the classroom, school, and community settings. IVY TECH dual credit may be earned.

- A requirement for all diplomas
- Potential Dual Credit through Ivy Tech (6 college credits, both parts must be completed in the same year for credit)

ADVANCED PLACEMENT EUROPEAN HISTORY 1, 2, 3 (H)

3 Credits 3 Trimesters Grades 10-12

Recommended Prerequisite: AP World History

AP European History is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. In AP European History students investigate significant events, individuals, developments, and processes in four historical periods from approximately 1450 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing historical evidence; contextualization; comparison; causation; change and continuity over time; and argument development. The course also provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction of Europe and the world; poverty and prosperity; objective knowledge and subjective visions; states and other institutions of power; individual and society; and national and European identity.

- Students should be able to read a college level textbook and write grammatically correct sentences.
- Counts as an Elective for all diplomas

INDIANA STUDIES

1 Credit 1 Trimester Grades 9-12

****Online course through Indiana Online Academy****

This course is an integrated course that compares and contrasts state and national developments in the areas of politics, economics, history, and culture. This course uses Indiana history as a basis for understanding current policies, practices, and state legislative procedures. It also includes the area of study of state and national constitutions from a historical perspective and as a current foundation of government. Examination of individual leaders and their roles in a democratic society will be included and students will examine the participation of citizens in the political process.

- Counts as an elective for all diplomas

ETHNIC STUDIES

1 Credit 1 Trimester Grades 9-12

****Online course through Indiana Online Academy****

This course provides opportunities to broaden students' perspectives concerning lifestyles and cultural patterns of ethnic groups in the United States.

- Counts as an elective for all diplomas

SOCIOLOGY

1 Credit 1 Trimester Grades 11-12

Prerequisite: GPA is 3.0 or higher or teacher approval

Note: Language skills are vital to success in this course. Students are expected to participate in discussion and assignments.

Sociology allows students to study human social behavior from a group perspective; this course presents the student with a study of human societies covering socialization, social organization, institutions, and processes of inequality.

- Counts as an elective for all diplomas

PSYCHOLOGY

1 Credit 1 Trimester Grades 10-12

Prerequisites: GPA is 3.0 or higher or teacher approval

Note: Language skills are vital to success in this course.

Psychology is the scientific study of mental processes and behavior; this course involves the study of physical-mental development, heredity-environment, personality, mental health, and related topics.

- Counts as an elective for all diplomas

CURRENT PROBLEMS, ISSUES, AND EVENTS

1-2 Credits 1-2 Trimesters Grades 10-11

Recommended Prerequisite: GPA is 2.7 or higher or teacher approval

This course gives students the opportunity to apply investigative and inquiry techniques to the study of significant problems or issues. Students develop competence in: (1) recognizing cause and effect relationships, (2) recognizing fallacies in reasoning and propaganda devices, (3) synthesizing knowledge into useful patterns, (4) stating and testing hypotheses, and (5) generalizing based upon evidence. Problems or issues selected will have contemporary historical significance.

Students will understand that: Decisions concerning the allocation and use of resources impact individuals and groups; The interaction between political and economic trends is a major source of change; Globalization is a major force for change in the world today: both positive and negative; Democratic societies must balance the rights and responsibilities of individuals with the common good; Global societies are diverse, creating varied perspectives, contributions, and challenges; Culture is both a unifying and divisive force in human relations; people are affected by environmental, economic, social, cultural, and civic concerns; Scientific and technological developments affect people's lives, the environment, and transform societies; There is a relationship between the consumption and conservation of natural resources.

- Counts as an elective for all diplomas

UNITED STATES GOVERNMENT

1 Credit 1 Trimester Grade 12

Prerequisite: None

Government is the study of the development, structure, and function of the American system of government. United States Government provides a framework for understanding the nature and importance of responsible civic participation and from learning the rights and responsibilities of individuals in a constitutional democracy. The course enables students to explore the historic origins and evolution of political philosophies into contemporary political and legal systems. Constitutional structure and the processes of the legislative, executive, and judicial branches of the national, state, and local levels of government are examined. Students learn to draw conclusions about the impact and interrelationships of history, geography, and economics upon our system of government. They also learn to demonstrate an understanding of the governmental structures of the United States and other political systems, as well as the relationship of American government to world affairs. Students learn to analyze the roles of individuals and groups in the political process by identifying and analyzing political issues. They also learn to access data from primary and secondary resources and use current technology to access relevant source materials and as a tool for producing documents in support of learning projects. Students have opportunities to take, defend, and evaluate positions on current issues that impact political decision-making. They should understand their ability to influence policies and decisions as individuals and in groups. Related learning experiences in the school and community enables students to learn how to participate effectively in the political process. The study of United States government also offers students opportunities to develop knowledge, inquiry skills, and the means to preserve and improve our constitutional democracy

- A requirement for all diplomas

U.S. GOVERNMENT & POLITICS, ADVANCED PLACEMENT (1, 2) (H)

2 Credits 2 Trimesters Grade 12

Prerequisite: None

This course is a college-level course available to highly motivated seniors. The curriculum consists of an introductory study of U.S. government that includes extensive reading assignments, knowledge and use of research tools, problem solving, and evaluation of information sources.

Units of study include:

Foundations of Government

Institutions of Government

The Electoral System

Political Behavior

The Courts and Our Rights

Public Policy

- Fulfills the Government AND AP requirement for the Academic Honors diploma

ECONOMICS

1 Credit 1 Trimester Grade 12

Prerequisite: None

Economics is the study of economic theory and problems. Units of study include comparative economic systems, supply and demand, government revenue and spending, financial institutions and markets, Gross National Product, economic stability and trade.

Economics includes a study of the allocation of scarce resources and their alternative uses for satisfying human wants. This course examines basic models of decision making at various levels and in different areas including: (1) decisions made as a consumer, producer, saver, investor, and voter; (2) business decisions to maximize profits; and (3) public policy decisions in specific markets dealing with output and prices in the national economy

- A Core 40, Academic Honors, and Technical Honors requirement

[Back to Table of Contents](#)

ENGINEERING AND TECHNOLOGY EDUCATION **COURSES**

Requirements:

»In 3 trimester vocational courses, all three trimesters must be successfully completed to receive credit.

»To earn dual credits, a student must maintain a grade of “B” or higher and in some instances, meet other requirements. See course instructor for details.

INTRODUCTION TO DESIGN PROCESSES

1 Credit

1 Trimester

Grades 9 - 12

Prerequisite: None

Introduction to Design Processes is a course that specializes in modern design and engineering processes with a focus on creative problem solving in developing, testing, communicating, and presenting post-evaluation of products. Students use the design process to analyze research, develop ideas, and produce products solutions. This process gives a framework through which they design, manufacture tests present their ideas. Students will demonstrate and utilize design principles and elements for visual presentation. Designing aspects will also cover aesthetics, ergonomics, the environment, safety, and production. The design process is a core-learning tool for many courses enabling the student to solve problems in a systematic, logical and creative manner. Students develop a good understanding of the way the process helps them think creatively and developing aesthetic ideas. The design process encourages the students to engage in higher level thinking to create solutions for many types of problems.

- Counts as a Directed Elective or Elective for all diplomas

INTRODUCTION TO TRANSPORTATION 1

1 Credit

1 Trimester

Grades 9-10

This course is designed to help students become familiar with fundamental principles in modes of land, sea, air, and space transportation, including basic mechanical skills and processes involved in transportation of people, cargo, and goods. Students will gain and apply knowledge and skills in the safe application, design, production, and assessment of products, services, and systems as it relates to the transportation industries. Content of this course includes the study of how transportation impacts individuals, society, and the environment. The course allows students to reinforce, apply, and transfer their academic knowledge and skills to a variety of interesting and relevant transportation related activities, problems, and settings. This will be a course that has many hands on projects.

- A Core 40 and Academic Honors elective
- A Technical Honors requirement
- A component of the Auto Service Technology Career Pathway

INTRODUCTION TO TRANSPORTATION 2

1 Credit 1 Trimester Grades 9-10

Prerequisite: 1 semester of Introduction to Engineering Design or taken concurrently is highly recommended, counselor exclusion is required.

Students will learn about different types of transportation and do several activities.

- A Core 40 and Academic Honors elective
- A Technical Honors requirement
- A component of the Auto Service Technology Career Pathway

AUTOMOTIVE SERVICES TECHNOLOGY I-1(Intro. 1)

1 Credit 1 Trimester Grades 10-12

Prerequisite: None

Students will study the wheeled vehicles involved in the actual movement of people and cargo within the transportation systems with emphasis on the car and light truck industry. There will be study of basic theory of operation, practical lab experience with emphasis on preventative maintenance skills centered mostly on cooling systems, lubrication systems, and minor electrical and safety concerns while servicing these areas

- A Core 40 and Academic Honors elective
- A Technical Honors requirement
- A component of the Auto Service Technology Career Pathway

AUTOMOTIVE SERVICES TECHNOLOGY I-2 (Intro. 2)

1 Credit 1 Trimester Grades 10-12

Prerequisite: Automotive Services (Intro. 1)

Students will continue the study of transportation within the car and light truck industry with an emphasis of study on theory and operation of the engine, brake, transmission, heating and air conditioning, fuel, steering and suspension systems

- A Core 40 and Academic Honors elective

- A Technical Honors requirement
- A component of the Auto Service Technology Career Pathway

AUTOMOTIVE SERVICES TECHNOLOGY I-3, I-4, I-5, I-6 & II-1, II-2, II-3, II-4, II-5, II-6

4-6 Credits 3-5 Trimesters Grades 11-12

Prerequisite: Introduction to Auto Services Technology 2 and teacher approval.

This course prepares students to enter the automotive industry at the apprentice level. Training includes service technician, service advisor and parts technician. Students become involved in trouble-shooting and repair of today's modern automobile and light truck with modern equipment and procedures. IVY TECH dual credit may be earned.

- A Core 40 and Academic Honors elective
- A Technical Honors requirement
- A component of the Auto Service Technology Career Pathway

ADVANCED MANUFACTURING (1, 2)

2 Credits 2 Trimester Grades 9-12

Prerequisite: One trimester of Introduction to Engineering Design or taken concurrently.

Advanced Manufacturing is an exploratory course introducing students to manufacturing processes within a variety of industries such as metal, plastic, and wood technology. Individual projects are used to demonstrate specific manufacturing processes such as sheet metal fabrication, lathe operation, injection molding and vacuum forming. A group activity is also included to mass produce an item to illustrate the systems issues related to efficiently producing a product. Student projects will include: sheet metal well, various lathe turnings (step, taper, knurl), a mass production item.

- A Core 40 and Academic Honors elective
- A Technical Honors requirement
- A component of the Welding Technology Career Pathway

PRECISION MACHINING I-1 (Intro. 1)

1 Credit 1 Trimester Grades 10-12

Prerequisite: Introduction to Engineering Design preferred.

Students will learn: Manufacturing/Machining Terminology, Manufacturing Occupations, Safety, Hand Tools, Basic Print Reading, Basic Precision Measurement, Shop Math, Layout Techniques, Fasteners, and processes on the Lathe and Drill Press. Students will accomplish this by doing assigned projects and related classroom assignments.

Student Projects will include: Lathe exercise, Gravity punch, Hammer and Hammer head.

- A Core 40 and Academic Honors elective
- A Technical Honors requirement
- A component of the Precision Machining Technology Career Pathway

PRECISION MACHINING I-2 (Intro. 2)

1 Credit 1 Trimester Grades 10-12

Prerequisite: Precision Machining (Intro. 1)

Students will continue to learn Manufacturing/Machining terminology. In addition, students will learn: Milling Machine Operations, Surface Grinding, Sawing and Cutoff Machines, Band Machining, Jigs and Fixtures, Cutting Fluids, Broaching Operations, and additional processes on the Lathe. Students will accomplish this by doing assigned projects and related classroom assignments.

Student Projects will include: Machinist Clamp, Replica of a Civil War Navy Cannon, Tap Wrench.

- A Core 40 and Academic Honors elective
- A Technical Honors requirement
- A component of the Precision Machining Technology Career Pathway

PRECISION MACHINE TECHNOLOGY I-3, I-4, I-5, I-6 & II-1, II-2, II-3, II-4, II-5, II-6 4-6 Credits 3-5 Trimesters Grades 11-12

Prerequisite: Precision Machining (Intro. 2), and instructor approval.

This course prepares students to either enter the workforce in Manufacturing/Machining at the apprentice level, or enter a post-secondary institution upon graduation. Selected students will have the opportunity to have an internship at a local manufacturing plant. Students will learn the following: Advanced print reading, Advanced precision measurement, Quality control techniques, Metallurgy, Heat treatment, Computer numerical control (CNC) or machine tools, Electromachining processes, Plating and surface coating processes, and additional processes on the machine tools that students learned to operate in Introduction to Precision Machining I-1, I-2. Students will accomplish this by doing assigned projects and related classroom assignments. Student Projects will include: C-Clamp, Jack Screw, Drill Press Vise, Ball Peen Hammer, Paper Punch, Bench Vise, Wheel Puller, V-Block, CNC Lathe project, CNC Mill project, and Arbor Press. VINCENNES UNIVERSITY dual credit may be earned.

- A Core 40 and Academic Honors elective
- A Technical Honors requirement
- A component of the Precision Machining Technology Career Pathway

INTRODUCTION TO CONSTRUCTION I

1 Credit 1 Trimester Grades 9-12

Prerequisite: One trimester of Introduction to Engineering Design or taken concurrently.

Students will study construction techniques, wood finishing, and operation of hand and power tools. Students will build a stool and a model house. A small charge for wood will be required of each student.

- A Core 40 and Academic Honors elective
- A Technical Honors requirement

- A component of the Construction Trades Career Pathway

INTRODUCTION TO CONSTRUCTION 2

1 Credit 1 Trimester Grades 9-12

Prerequisite: Introduction to Construction 1

Students will study residential construction. Students will build a mantle clock and do several construction activities: Electrical & Plumbing. Each student will be responsible for the cost of the project lumber and parts.

- A Core 40 and Academic Honors elective
- A Technical Honors requirement
- A component of the Construction Trades Career Pathway

CONSTRUCTION TRADES (1-3) (Formerly Building Trades Technology)

6 Credits 3 Trimesters Grades 11-12

Prerequisite: Introduction to Engineering Design I and teacher approval

Recommendations: It is recommended that those students who plan to enroll in this program complete the Architectural Drafting class before graduation.

This course is designed to prepare the student for advantageous entrance into the building trades. The most emphasis is placed upon carpentry work, including floor and wall framing, trimming and cabinetry. Areas with less depth include electrical wiring, plumbing, masonry, concrete and drywall work and some carpet and vinyl installation. Heating, air conditioning and marketing are taught as exposure areas to help students choose an area of interest. Students will be involved in building a three or four bedroom home or alternate projects depending upon the housing market.

- A Core 40 and Academic Honors elective
- A Technical Honors requirement
- A component of the Construction Trades Career Pathway

INTRODUCTION TO COMMUNICATIONS 1

1 Credit 1 Trimester Grades 9-12

Prerequisite: None

This course is an overview of communication focusing on Electricity and Electronics fundamentals. Students will have a variety of experiences including: How to solder, care and use of a digital multi-meter, practicing safety around electricity, building an electric motor, constructing electronic circuits using a breadboard and using computer simulation to design and verify electronic circuits.

- A Core 40 and Academic Honors elective
- A Technical Honors requirement

ROBOTICS DESIGN AND INNOVATION

1 Credit 1 Trimester Grades 9-12

Prerequisite: Introduction to Communications 1

This course allows students to design, program, and test innovative technological designs related to robotic systems. Topics involve mechanics, pneumatics, control technologies, computer fundamentals, and programmable control technologies. Students design, build, and optimize robots to perform a variety of predesignated tasks. Individuals or small teams may choose to participate in organized robotic competitions or develop their own events during the course. Through this course, students will investigate exciting career and collegiate programs of study.

- A Core 40 and Academic Honors elective
- A Technical Honors requirement
- A component of the Electronics & Computer Technology Career Pathway

INDUSTRIAL AUTOMATION AND ROBOTICS I-1, I-2

2 Credits

2 Trimesters

Grades 9 - 12

Prerequisite:

Industrial Automation and Robotics I, will introduce students to design and programming concepts in basic robots that use sensors and actuators to solve specific problems and complete specific tasks. This will include introductory programming autonomous mode. This course will provide fundamentals in industrial robotics basic programming and operations. This course will provide fundamental knowledge and skills in basic lasers, pneumatics, hydraulics, mechanics, basic electronics, and programmable logic controllers along with an understanding of career pathways in this sector.

- Counts as an Elective for all diplomas

INTRODUCTION TO ENGINEERING DESIGN A

1 Credit

1 Trimester

Grades 9-12

Prerequisite: None

This class teaches the use of drafting instruments and freehand drawing to make working drawings of machine parts. Students learn how to make and understand/interpret drawings. This class is very highly recommended to be taken by all students before taking any other Technology Ed./Vocational courses.

- A Core 40 and Academic Honors elective
- A Technical Honors requirement
- A component of Drafting & Design AND Construction AND Electronics & Computer Technology AND Engineering Technology Career Pathways

INTRODUCTION TO ENGINEERING DESIGN B

1 Credit

1 Trimester

Grades 9-12

Prerequisite: Introduction to Engineering Design A

Students are exposed to blueprint reading and introduced to (CAD) computer aided drafting. They will continue their education on making working drawings of machine parts.

- A Core 40 and Academic Honors elective
- A Technical Honors requirement
- A component of Drafting & Design AND Construction Trades, AND Electronics & Computer Technology AND Engineering Technology Career Pathways

PRINCIPLES OF ENGINEERING 1 & 2

2 Credits 2 Trimester Grades 10-12

Prerequisites: Introduction to Engineering Design B

This course focuses on the process of applying engineering, technological, scientific, and mathematical principles in the design, production, and operation of products, structures, and systems. This is a hands-on course designed to provide students interested in engineering careers to explore experiences related to specialized fields such as civil, mechanical, and materials engineering. Students will engage in research, development, planning, design, production, and project management to simulate a career in engineering. Classroom activities are organized to allow students to work in teams and use modern technological processes, computers, CAD software, and production systems in developing and presenting solutions to engineering problems.

- A Core 40 and Academic Honors elective
- A Technical Honors requirement
- A component of the Engineering Technology Career Pathway

DIGITAL ELECTRONICS 1

1 Credit 1 Trimester Grades 11-12

Prerequisite: Introduction to Communications 1 and Robotics in Design and Innovation or Introduction to Engineering Design or Principles of Engineering or instructor's approval. Minimum grade of "C" in Algebra or instructor's approval.

This course studies the digital language of computers. Binary, hexadecimal number systems are mastered. Labs constructing basic logic circuits are performed. We study computer networking fundamentals including building and running network cable. Digital communication methods are studied. IVY TECH dual credit may be earned.

- A Core 40 and Academic Honors elective
- A Technical Honors requirement
- A component of the Electronics & Computer Technology AND Engineering Career Pathways

DIGITAL ELECTRONICS 2

1 Credit 1 Trimester Grades 11-12

Prerequisite: Digital Electronics 1

This is a continuation of the first trimester. We study robot operation and programming. Build and test simple circuits including flip flops, counters and microprocessor circuits. We study the

basics of analog to digital and digital to analog conversation. We develop microprocessor circuits using computer trainers. IVY TECH dual credit may be earned.

- A Core 40 and Academic Honors elective
- A Technical Honors requirement
- A component of the Electronics & Computer Technology AND Engineering Career Pathways

ARCHITECTURAL DRAFTING & DESIGN 1

1 Credit 1 Trimester Grades 10-12

Prerequisites: Introduction to Engineering Design 1

This course studies the design and planning of residential housing using floor plans, plot plan, and elevations. The use of computer-aided design is introduced to students during this trimester.

VINCENNES UNIVERSITY dual credit may be earned.

- A Core 40 and Academic Honors elective
- A Technical Honors requirement
- A component of Drafting & Design Career Pathway

ARCHITECTURAL DRAFTING & DESIGN 2

1 Credit 1 Trimester Grades 10-12

Prerequisites: Architectural Drafting & Design 1

Students continue the study of architectural design with the addition of perspectives and cost analysis of building materials. Computer aided design allows students an unlimited amount of opportunities for design selection during this trimester. VINCENNES UNIVERSITY dual credit may be earned.

- A Core 40 and Academic Honors elective
- A Technical Honors requirement
- A component of Drafting & Design Career Pathway

MECHANICAL DRAFTING & DESIGN 1

1 Credit 1 Trimester Grades 10-12

Prerequisite: Introduction to Engineering Design 1

Students will develop working drawings of machine parts and assembled components with emphasis on: geometric construction, dimensioning standards, print reading and the design process. Class work will be divided approximately 20/80 between drawing board work and computer aided drafting (CAD). IVY TECH or VINCENNES UNIVERSITY dual credit may be earned.

- A Core 40 and Academic Honors elective
- A Technical Honors requirement
- A component of Drafting & Design Career Pathway

MECHANICAL DRAFTING & DESIGN 2

1 Credit 1 Trimester Grades 10-12

Prerequisite: Mechanical Drafting & Design 1

Application of computers in drawing and designing machine components is the main focus with geometric construction and threaded fasteners on the drawing board. IVY TECH or VINCENNES UNIVERSITY dual credit may be earned.

- A Core 40 and Academic Honors elective
- A Technical Honors requirement
- A component of Drafting & Design Career Pathway

RADIO & TELEVISION I (Formerly Marketing/TV Broadcasting, Intro.)

2-3 Credits 2-3 Trimesters Grades 10-12

This introductory course to Broadcast Television Production, provides instruction to develop and enhance competencies in various communication, marketing, media, production and technical functions and tasks performed by employees in this field. Emphasis is placed on career opportunities, production, programming, announcing, broadcast equipment operation, news and sports casting, broadcast regulations and laws, station organization, technical, oral and written communication, and listening skills. Instructional strategies may include a school-based enterprise, real and simulated occupational experiences, such as the operation of an in-school radio, television, telecommunications, or distance learning studio, job shadowing, field trips, and internships

- A Core 40 and Academic Honors elective
- A Technical Honors requirement
- A component of the Web & Digital Communications Career Pathway

RADIO & TELEVISION II (Formerly Marketing/TV Broadcasting, Adv.)

2-6 Credits 2-3 Trimesters Grades 11-12

Prerequisite: Radio & Television I or teacher's approval.

Radio/TV Broadcasting/Telecommunications provides instruction to develop and enhance competencies in various communication, marketing, media, production, and technical functions and tasks performed by employees, including management personnel, in radio/TV broadcasting and telecommunications occupations. Emphasis is placed on career opportunities, production, programming, promotion, sales, announcing, broadcast equipment operation, news and sportscasting, broadcast regulations and laws, station organization, technical oral/written communication, and listening skills. Instructional strategies may include a hands-on school-based enterprise, real and/or simulated occupational experiences, such as the operation of an in-school radio, television, telecommunications, or distance learning studio; job shadowing; field trips; and internships. This course may be repeated for a second year. UNIVERSITY OF SOUTHERN INDIANA dual credit may be earned.

- A Core 40 and Academic Honors elective
- A Technical Honors requirement
- A component of the Web & Digital Communications Career Pathway

CRIMINAL JUSTICE I (Law Enforcement)

6 Credits 3 Trimesters Grades 11-12

Prerequisites: Application and Interview with student and parents/guardians, Criminal Background Check, Athletic Physical on file

The class objectives will be: Gain practical law enforcement experience and training. Strength, character and citizenship skills. Development of leadership skills. Stress of self-discipline, order, respect for authority, and chain of command. Motivation to achieve personal and professional goals through teamwork. Promote and enhance a positive image of law enforcement.

Activities include: Shooting range, Ride-Alongs, Jail & Dispatch tours, Physical Training/Drill, Uniforms are required attire for this class. VINCENNES UNIVERSITY dual credit may be earned.

- A Core 40 and Academic Honors elective
- A Technical Honors requirement
- A component of the Criminal Justice Career Pathway

EMERGENCY MEDICAL SERVICE--Hoosier Hills Career Center course

6 Credits 3 Trimesters Grade 12

The class objectives will be: Mastering life-saving and injury preventing skills (CPR, splinting, bandaging, trauma assessment, childbirth/pediatrics, ambulance operations, spinal immobilization, airway control, and community awareness), Hands-on learning experiences, Emphasis on teamwork and leadership. IVY TECH dual credit may be earned.

- A Core 40 and Academic Honors elective
- A Technical Honors requirement
- A component of the Emergency Medical Service Career Pathway

[Back to Table of Contents](#)

NON-DEPARTMENTAL COURSES

PEER TUTORING

1 Credit 1 Trimester Grades 10-12

Prerequisite: Application Process

This course is designed to teach students about various disabilities and issues facing people with disabilities. The main component of the course is direct hands-on work with students with disabilities. Acceptance into the course is based upon teacher recommendations. May be repeated for credit.

- A Core 40 elective
- An Academic Honors and Technical Honors elective

HOOSIER HILLS CAREER CENTER PROGRAM

DESCRIPTIONS

For additional information about these courses, contact the Hoosier Hill Career Center at (812) 330-7730.

These classes are offered in Bloomington on a 2-semester basis. Since we are on 3 trimesters, the students will receive 6 credits for the year, but they will be reflected as 3 credits each on the 2nd and 3rd trimester report cards along with their grades. These classes may be taken for 2 years except for Introduction to Health Care Systems and Health Careers/Practicum.

These courses may not be dropped after tuition has been paid.

To earn dual credit, additional requirements must be met including maintaining a grade of “B” or higher. See course instructors for further details.

AUTO COLLISION REPAIR (AM) **6 Credits 3 Trimesters Grades 11-12**

Course Overview:

The Auto Collision Repair program is a functioning commercial body shop. Students gain real-world experience through customer contact and by working with a wide variety of vehicle body problems. Students in the Auto Collision Repair course learn how to repair and refinish cars and trucks through a combination of classroom instruction and actual laboratory experience. Through a variety of skills attained in the course, students learn to analyze damage to a vehicle and replace or repair the damaged part (s).

Areas of Study Include:

Shop safety, Automotive body construction, Tools, Welding, Sheet metal repair, Frame straightening, Repair materials, Adjusting body panels, Painting, Refinishing, Estimating

Student Profile:

A successful student in Auto Body Repair should have good color discrimination, good eye/hand coordination, a keen eye for detail, and the ability to work as part of a team.

Special Opportunities:

During the second semester of the senior year, cooperative education placement may be available to students who have mastered the necessary competencies. ASE certification may be available to students when competencies are met. Advanced placement credits are available through Ivy Tech State College. **The Auto Collision Repair program is an ASE NATEF certified training site.**

Completion of the Auto Collision Repair Course Prepares Students to Become:

Body repair technician, Power equipment operator, Insurance estimator, Manager or foreman of an auto body shop, Painting or refinishing technician, Glass technician, Upholsterer

COSMETOLOGY I & II (AM/PM)

6 Credits 3 Trimesters Grades 11-12

This program is designed to prepare students to sit for the state cosmetology licensure exam. Students will begin the transition to a rewarding career in all fields of cosmetology. Some of the areas included are as follows: beauty salon owner, make-up artist, salon manager, facial and skin care expert, stylist, platform artist, colorist, manufacturer's representative, manicurists, receptionist, and waxing technician. This program offers instruction on practical skills, sanitation, professionalism, and business education. Indiana State Board of Cosmetology requires all students to graduate from the program with a minimum score of 75% in order to sit for the licensure exam. Students will be required to pay a one-time kit (\$600), book, and supply fee for the 2-year course. Students who begin as seniors will be required to pay in order to complete the second year of training at a discounted rate. *Second year students will attend class at the Indiana Cosmetology Academy.*

Dual Credit: Vincennes (first year 14 credits) COSM 100, COSM 150 (second year 16 credits) COSM 200, COSM 250

CULINARY ARTS AND HOSPITALITY MANAGEMENT (AM)

6 Credits 3 Trimesters Grades 11-12

Recommended Pre-requisites: Nutrition & Wellness, Advanced Nutrition & Wellness

Topics for this course include basic baking theory and skills, introduction to breads, and basic culinary fundamentals including; food safety and sanitation, knife skills, stocks, sauces, various cooking techniques, recipe costing, and culinary math. Students will experience intensive, teacher monitored, standards-based laboratory situations with commercial applications utilizing our on-site student-run restaurant. Work-based experiences in the food industry are strongly encouraged.

Dual Credit: Ivy Tech (5 credits) HOSP 101, HOSP 102,

ADVANCED CULINARY ARTS (AM)

6 credits 3 Trimesters Grade 12

Pre-requisite: Culinary Arts and Hospitality Management

This course builds upon the skills and techniques learned in Culinary Arts and Hospitality Management. Instruction and intensive laboratory experiences include: commercial applications of principles of nutrition, aesthetic and sanitary selection, purchasing, storage, preparation, service of food and food products, using and maintaining related tools and equipment, baking and pastry arts skills, managing operations in food service, food science, hospitality establishments, providing for the dietary needs of persons with special requirements, related research, and development and testing. Intensive laboratory experiences with commercial applications are a

required component of this course of study. Student laboratory experiences may be school-based, “on-the-job” or a combination of the two. ServeSafe Certification offered.

Dual Credit: Ivy Tech (3 credits) HOSP 105

DRAFTING: ARCHITECTURAL & MECHANICAL (AM)

6 Credits 3 Trimesters Grades 11-12

Suggested Prerequisites: Introduction to Drafting, Geometry

Course Overview:

The Hoosier Hills Career Center drafting program is divided into traditional board drafting and Computer-Aided Drafting (CAD). Students with previous experience, however, may test out of board drafting or take an accelerated version. Drafting students are instructed in the use of specialized drafting equipment and in the application of modern drafting techniques to practical drafting problems. Students learn Computer-Aided Drafting (CAD) instruction and solid modeling with Autodesk Inventor TM, architectural modeling with Architectural Desktop TM and VIZ TM. Students will learn drafting-related subjects such as related math, drafting to scale, terminology, and use of a technical library. Since all instruction is individualized, students are asked to declare a major interest area, and their coursework will be established accordingly.

Major areas of interest include:

Architecture, civil and mechanical engineering and design. Students also work on contests, as appropriate, and the customization of the AutoCAD environment.

Special Opportunities:

Students in the Drafting program have the opportunity to compete in competitions sponsored by the American Institute of Architects. Post-secondary education credit at Ivy Tech State College is available for students who qualify. Students may be eligible for up to 9 credit hours.

Student Profile:

A successful student in Drafting should have a good work ethic, possess some artistic ability, and be able to visualize objects.

Drafting instruction includes:

Specialized, custom instruction in the student's specific area of interest.

Completion of Drafting prepares students for:

Entry-level employment as a drafter or post-secondary education at a technical or 4-year college

EARLY CHILDHOOD EDUCATION I (AM)

6 Credits 3 Trimesters Grades 11-12

Recommended Pre-requisite: Child Development

Required: Criminal history background check and a negative TB (tuberculosis) test.

Students in the first year of this program will be introduced to a variety of education career paths. Other learning experiences include promoting child development and learning, building family and community relationships, and using developmentally effective approaches to observe, document, and assess within this field. In order to gain an understanding of a child's physical, cognitive, social, and emotional development, various developmental theorists are studied for further understanding of early childhood behavior. Developmentally appropriate activities for children, appropriate practices, care regulations and licensing requirements are central to this class.

Dual Credit: Ivy Tech (6 credits) ECED 100, ECED 101

EDUCATION PROFESSIONS (AM)

6 Credits 3 Trimesters Grade 12

Pre-requisite: *Early Childhood Education I*

This course provides the foundation for employment in education and related careers. Course study includes the teaching profession, the learner as he/she relates to the learning process, planning instruction concepts, and an in-depth look at instructional/assessment strategies. An additional component will be exploratory field experiences in various classroom settings.

Dual Credit: Ivy Tech (3 credits) EDUC 101

FIRE RESCUE I & II (AM)

6 Credits 3 Trimesters Grades 11-12

Goals:

Prepare students for an entry level position and/or further educational study in the field of Firefighting and Fire Sciences. With the skills learned from this program the students will be familiar with the training, expectations, roles, and responsibilities placed upon them during fire and rescue emergencies.

Course Objectives:

In the Fire Sciences program the students will learn the structure, operations, and basic tactical knowledge for fire and rescue emergencies through simulated laboratory experience which includes live fire training. They will also learn the importance of team building, command structure, physical fitness, and professionalism as it pertains to the fire service. The course is taught by two Captains in the Bloomington Fire Department.

Program Completion Requirements:

Student must have a passing grade, display an understanding and ability to implement employment skills necessary for certification of Firefighter I/II, and demonstrates the practical

proficiencies as defined by the National Fire Protection Association (NFPA) and the Indiana Department of Homeland Security (IDHS).

Employable Competencies:

1. Observes Rules
2. Maintain Professional Appearance
3. Assumes Responsibilities
4. Punctuality/Attendance
5. Works Without Supervision
6. Completes Tasks as Assigned
7. Welcomes Constructive Criticism
8. Works Well with Others
9. Demonstrates a Positive Attitude
10. Performs as a Leader and a Follower

NFPA/IDHS Practical Skills Evaluation

1. Fire Service Communication
2. Fire Extinguishers
3. Fire Control/Suppression
4. Fire Prevention
5. Forcible Entry
6. Fire Hose
7. Ladders
8. Overhaul
9. Personal Protective Equipment
10. Rescue
11. Ropes and Knots
12. Fire Ground Safety
13. Salvage
14. Sprinklers
15. Ventilation
16. Water Supply
17. CPR

HEALTH SCIENCE EDUCATION I (AM)

6 Credits 3 Trimesters Grades 11-12

Suggested Prerequisites: Biology, Interpersonal relations, Keyboarding

Course Overview:

Introduction to Health Care Systems is a one-year course that introduces students to the field of health care. Students completing this program will gain a working knowledge of body systems, medical terminology, and basic patient care skills common to various health occupations.

Through an exploration of current issues and varied careers available in the health care industry, students will be prepared to set realistic career and continuing education goals. The course is structured to combine both classroom instruction and hands-on training in a lab setting, with an

emphasis on wellness and healthy living. Students observe various health careers through job shadowing experiences.

Upon successful completion of the Introduction to Health Care Systems course, a student should be able to:

Demonstrate a basic knowledge of medical terminology

Understand basic human anatomy and physiology

Understand concepts of wellness as it relates to body systems and to the whole person

Demonstrate skills in hand washing and infection control

Understand and apply safety rules in the student lab and at job shadow sites

Appreciate the history of health care

Develop skills in communication, leadership, problem solving, and professionalism

List and describe various types of health care providers

Perform basic first aid

Acquire competence in skills that are suitable for entry-level employment in the field of health care

Understand the duties and demands of various careers in health care

Special Opportunities:

Qualifying students in the Introduction to Health Care Systems program may compete in the Health Occupations Students of America (HOSA) State Conference. Top-rated students in the state competition have the opportunity to compete at the national conference.

Health Occupations instruction includes:

Introduction to the health care industry Body systems, with a focus on wellness and normal states

Basic medical terminology Basic patient care skills Professionalism Communication Leadership

Completion of Introduction to Health Care Systems course prepares students for:

Entry-level employment in the health care industry, a second year of instruction in the Health Careers / Practicum program, and post-secondary education or training.

HEALTH SCIENCE EDUCATION II (AM)

6 Credits

3 Trimesters

Grades 11-12

Suggested Prerequisites: Biology or Life Science, C average in academic subjects, or successful completion of Introduction to Health Care Systems with instructor recommendation

Course Overview:

This one-year program, for seniors only, takes an in-depth look at several specific careers in the health care industry. The course is designed to provide students with the types of skills needed by a variety of health care workers. In addition to a solid foundation in basic health care terminology and human body anatomy and physiology, there will be an emphasis on basic employability skills such as responsibility, dependability, customer caring, communication, and leadership. Students

will spend a significant portion of the second semester in internships in community health care facilities.

Course Outline:

Orientation, Medical Terminology, Health careers, Infection control, Meeting needs, Professionalism, Communication, Health changes and disease states, Human anatomy and physiology with related health care skills.

Special Opportunities:

Qualifying students in the Health Careers/Practicum program may compete in the Health Occupations Students of America (HOSA) state conference. Top-rated students in the state competition have the opportunity to compete at the national conference.

Post-secondary Education Credit:

Upon successful completion of the Health Careers/Practicum course, students may qualify for post-secondary education credit in Medical Terminology at Ivy Tech State College.

Student Profile:

A successful student in Health Careers/Practicum should be dependable, goal-oriented, motivated, able to work independently, and have excellent interpersonal skills.

Student Supplied Materials:

In addition to basic classroom supplies, the student must provide professional attire for shadowing experiences, scrub pants and jacket for internship, and white athletic shoes or nursing shoes.

Health Careers/Practicum includes:

Anatomy, physiology, and medical terminology focusing on disease states. Exploration of career options in the health care industry. Instruction on skills that are universal to all health careers. Instruction on skills specific to a variety of careers.

Completion of Health Careers/Practicum prepares students for:

Entry-level employment as a health care assistant in a variety of fields

Post-secondary education

COMPUTER TECH SUPPORT (AM)

6 Credits

3 Trimesters

Grades 11-12

This program allows students to explore how computers work. Students learn the functionality of hardware and software components as well as suggested best practices in maintenance and safety issues. Through hands on activities and labs, students learn how to assemble and configure a computer, install operating systems and software, and troubleshoot hardware and software problems. A+ certification is offered in this course.

Dual Credit: Vincennes (6 credits) CMET 140, CMET 185

WELDING I & II (AM)

6 Credits 3 Trimesters Grades 11-12

Recommendations: Students will need to provide some basic tools including safety glasses, welding helmet, leather welding gloves, and tape measure.

Course Overview:

In this course students will learn metal fabrication processes and techniques that will enable them to pursue a variety of careers within business and industry. Students will receive instruction in the proper set-up, adjustment, maintenance and use of welding and fabrication shop equipment. The first year, exploratory in nature, study will rotate between welding and machining skill development. Second year students shall specialize in either precision machining or welding.

Course Content: Basic math, Print reading, Drafting, Panel restoration, Precision machining, Custom body modification, Sheet metal work,

Dual Credit: Offered through Ivy Tech- Wabash Valley. These credits can be obtained through completing the two-year course sequence in metal fabrication. WELD 108 Shield Metal Arc Welding I--3 credits, WELD 207 Gas Metal Arc Welding (MIG)--3 credits, WELD 208 Tungsten Gas Arc Welding--3 credits

LANDSCAPE MANAGEMENT (AM)

6 Credits 3 Trimesters Grades 11-12

You will learn:

Landscape design, landscape construction, maintenance schedules, care and use of equipment.

[Back to Table of Contents](#)

