

Mooreville High School

*Curriculum Guide
2023-2024*



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Course and Credit Requirements	
English/ Language Arts	8 credits Including a balance of literature, composition and speech.
Mathematics	6 credits (in grades 9-12) 2 credits: Algebra I 2 credits: Geometry 2 credits: Algebra II <i>Or complete Integrated Math I, II, and III for 6 credits. Students must take a math or quantitative reasoning course each year in high school</i>
Science	6 credits 2 credits: Biology I 2 credits: Chemistry I or Physics I or Integrated Chemistry-Physics 2 credits: any Core 40 science course
Social Studies	6 credits 2 credits: U.S. History 1 credit: U.S. Government 1 credit: Economics 2 credits: World History/Civilization or Geography/History of the World
Directed Electives	5 credits World Languages Fine Arts Career and Technical Education
Physical Education	2 credits
Health and Wellness	1 credit
Electives*	6 credits (College and Career Pathway courses recommended)
40 Total State Credits Required	

Schools may have additional local graduation requirements that apply to all students

* Specifies the number of electives required by the state. High school schedules provide time for many more electives during the high school years. All students are strongly encouraged to complete a College and Career Pathway (selecting electives in a deliberate manner) to take full advantage of career and college exploration and preparation opportunities.

CORE40 with Academic Honors (minimum 47 credits)

For the **Core 40 with Academic Honors diploma (AHD)**, students must:

- Complete all requirements for Core 40.
- Earn 2 additional Core 40 math credits.
- Earn 6-8 Core 40 world language credits (6 credits in one language or 4 credits each in two languages).
- Earn 2 Core 40 fine arts credits.
- Earn a grade of a “C” or better in courses that will count toward the diploma.
- Have a grade point average of a “B” or better.
- Complete one of the following:
 - A. Earn 4 credits in 2 or more AP courses and take corresponding AP exams
 - B. Earn 6 verifiable transcribed college credits in dual credit courses from the approved dual credit list.
 - C. Earn two of the following:
 1. A minimum of 3 verifiable transcribed college credits from the approved dual credit list,
 2. 2 credits in AP courses and corresponding AP exams,
 3. 2 credits in IB standard level courses and corresponding IB exams.
 - D. Earn a composite score of 1250 or higher on the SAT and a minimum of 560 on math and 590 on the evidence based reading and writing section.**
 - E. Earn an ACT composite score of 26 or higher and complete written section
 - F. Earn 4 credits in IB courses and take corresponding IB exams.

CORE40 (minimum 47 credits)

with Technical Honors

For the **Core 40 with Technical Honors (TH)** diploma, students must:

- Complete all requirements for Core 40.
- Earn 6 credits in the college and career preparation courses in a state-approved College & Career Pathway and one of the following:
 1. Pathway designated industry-based certification or credential, or
 2. Pathway dual credits from the approved dual credit list resulting in 6 transcribed college credits
- Earn a grade of “C” or better in courses that will count toward the diploma.
- Have a grade point average of a “B” or better.
- Complete one of the following,
 - A. Any one of the options (A - F) of the Core 40 with Academic Honors
 - B. Earn the following scores or higher on WorkKeys; Reading for Information – Level 6, Applied Mathematics – Level 6, and Locating Information-Level 5.
 - C. Earn the following minimum score(s) on Knowledge Assessment: Writing 80, Reading 90, Math 75.
 - D. Earn the following minimum score(s) on Compass; Algebra 66, Writing 70, Reading 80



Indiana GRADUATION PATHWAYS

The path to graduation is not one-size-fits-all. Indiana provides many pathways for students to earn a high school diploma.

OVERVIEW

Students starting with the Class of 2023 must meet all of the following:

- 1 Credits
- 2 Learn & Demonstrate Employability Skills
- 3 Postsecondary-Ready Competencies

DIPLOMA REQUIREMENTS

- 1 Credits**
 Earn credits toward a diploma with designation.
 - Core 40 - minimum 40 credits
 - Academic Honors - minimum 47 credits
 - Technical Honors - minimum 47 credits
 - General
- 2 Learn & Demonstrate Employability Skills**
 Produce defined outcome(s) based on experience.
 Defined Outcome Options
 - Videos
 - Papers
 - Resume
 - Dual Credit
 - Certifications
 - Portfolio
 - Projects
 - Slideshows
 - Presentation
 - Five Year Goal Plan
 - Reflection of Experience
 - Letters of Recommendation
 - Letter of Employment Verification
 - Postsecondary-related Experiences
 - Co-Curricular Participation
 - Extra-Curricular Participation
 - Locally Defined Outcome
- 3 Postsecondary-Ready Competencies**
 Meet at least one of these competencies.
 - **Honors Diploma**
academic or technical
 - **SAT**
reading/writing = 480, math = 530
 - **ACT**
english = 18, reading = 22, math = 22, science = 23 (2 out of 4 needed with at least one in English/Reading and one in Math/Science)
 - **ASVAB**
minimum of 31
 - **Industry Certification**
certification from approved DWD list
 - **Apprenticeship**
federally recognized
 - **CTE Concentrator**
C average or higher in at least 2 advanced HS courses in a state-approved CTE Pathway
 - **AP/IB/Dual Credit/ Cambridge International/CLEP**
C average or higher in 3 courses (1 of the 3 courses must be in core content area or all three must be part of a CTE pathway)
 - **Locally Created Pathway**
approved by SBOE
 - **Waiver**
see listed web link

TRACKING

- 1 Transcript with Completed Courses**
 Project-Based Experience
Allows students to gain knowledge and skills by working for an extended period of time to investigate and respond to an authentic, engaging, and complex question.
- 2 Work Toward Completion of One of the Experiences Below**
 Service-Based Experience
Integrates academic study with service experience, reflects larger social, economic, and societal issues, and collaborative efforts between students, schools, and community partners.
- 3 Course Selection, Graduation Plan, & Testing Opportunities**
 Work-Based Experience
Activities that occur in a workplace while developing the student's skills, knowledge, and readiness for work.



Please Visit: <https://www.doe.in.gov/graduation-pathways>
 Questions: DOEGradpathway@doe.in.gov

CTE Pathways (Class of 2024)

Students in the class of 2023 must earn a C average in at least 2 non-duplicative courses beyond an introductory course within a particular program of study.

CTE Pathway	Prerequisite Introductory Courses	CTE Concentrator Courses
Agriculture (Animal Systems)	Introduction to Ag, Food, & Natural Resources Animal Sciences	Advanced Life Science: Animals Agribusiness Management
Agriculture (Plant Systems)	Introduction to Ag, Food, & Natural Resources Plant & Soil Science	Advanced Life Science: Plant & Soils Agribusiness Management
Architecture and Construction (Construction)	Introduction to Construction (recommended)	Construction Trades I Construction Trades II
Arts, AV Tech and Comm (Radio TV)	Interactive Media	Radio and Television I Radio and Television II
Business and Marketing (Accounting)	Accounting	Principles of Business Management Advanced Accounting
Business and Marketing (E&M Business Mgmt Focus)	Introduction to Business (optional) Digital Applications (optional)	Principles of Marketing OR Principles of Business Management AND Entrepreneurship and New Ventures
Ed and Training (Education Careers)	Advanced Child Development	Education Professionals I Educational Professionals II
Health Sciences (Biomed/Tech)	PLTW Principles of Biomedical Sciences	PLTW Human Body Systems PLTW Medical Interventions
Hospitality and Human Services (Human and Social Services)		Human and Social Services I Human and Social Services II
STEM/ Information Tech (Computer Science)		Computer Science I AND Computer Science II OR Computer Science III: Cybersecurity
STEM (Engineering)	Introduction to Engineering	Principles of Engineering AND Civil Engineering & Architecture OR Aerospace Engineering

Area 31 Programs

CTE Pathway	Year 1 Course	Year 2 Course
Agriculture (Horticulture)	Horticultural Science	Landscape Management I
Construction (HVAC)	Construction Technology/HVAC I	Construction Technology/HVAC II
Arts, AV Tech and Comm (Interactive Media)	Interactive Media	Graphic Design and Layout
Arts, AV Tech and Comm (Graphic Imaging)	Interactive Media OR Graphic Design and Layout	Graphic Imaging Technology
Arts, AV Tech and Comm (Radio TV)	Radio and Television I	Radio and Television II
Ed and Training (Early Childhood)	Early Childhood Education I	Early Childhood Education II
Health Sciences (Pharmacy)	Health Science Education I	Health Science II: Pharmacy
Health Sciences (Physical Therapy)	Health Science Education I	Health Sciences II: Physical Therapy (MHS)
Health Sciences (Nursing)	Health Science Education I	Health Science Education II: Nursing
Hospitality & Human Services (Cosmo)	Cosmetology I	Cosmetology II
Hospitality & Human Services (Culinary Arts)	Culinary Arts and Hospitality I	Culinary Arts and Hospitality II: Culinary Arts
Manuf and Logistics (Advanced Manuf)	Advanced Manufacturing I	Advanced Manufacturing II
Manuf and Logistics (Logistics and Supply Chain)	Warehouse Operations and Materials Handling	Supply Chain Management and Logistics
Manuf and Logistics (Machine Tech)	Precision Machining I	Precision Machining II
Public Safety (EMT/Paramedic)	Health Science Education I OR Fire and Rescue I	Emergency Medical Services
Transportation (Auto Collision)	Automotive Collision Repair I	Automotive Collision Repair II
Transportation (Auto Tech)	Automotive Services Technology I	Automotive Services Technology II
Transportation (Aviation Maint)	Aviation Maintenance I	Aviation Maintenance II

Civics Arts Locally-Created Pathway (all grade levels)

In order to complete the Civic Arts Pathway, the student must successfully complete:

- Required introductory and advanced coursework.
- Complete employability skills experiences in the arts through local partnerships (e.g. projects, internship, authentic industry experience)
- Complete an ePortfolio (or traditional portfolio) featuring work samples from courses, internships, and other related experiences. Portfolios should include:
 - Resume with employability skills experiences
 - At least 2 artifacts of student produced work per year in the pathway career classes
 - Concentration of work based on a central theme
 - Success from all high school classes
 - Other artifacts deemed important by student and teachers.

Pathway	Required Introductory Courses	Advanced Courses (at least 4 credits)	Related Electives
Band	Introduction to Business OR Education Professions I	Adv. Concert Band Winds Adv. Concert Band Percussion AP Music Theory	Dance Performance Theatre Arts Adv. Theatre Arts
Choir	Introduction to Business OR Education Professions I	Adv. Choir Finesse Adv. Choir Madrigals & Spotlighters AP Music Theory	Beg Choir Sensations Beg Choir Millennium Int. Choir Nexus Dance Performance Theatre Arts Adv. Theatre Arts
Orchestra	Introduction to Business OR Education Professions I	Intermediate Orchestra Adv. Orchestra Chamber AP Music Theory	Beg Orchestra Theatre Arts Adv. Theatre Arts
Visual Arts	Introduction to Business OR Education Professions I	Adv. 2-D Art Adv. 3-D Art Photography 2 Painting 2 AP Drawing AP 2-D Art and Design AP 3-D Art and Design	Intro 2-D Art Intro 3-D Art Drawing Ceramics Painting 1 Photography 1

AP/Dual Credit Course Pathway (all grade levels)

Students must earn a C average or higher in at least 3 courses including at least 1 core-content course in the Core Transfer Library. (Core-content courses are designated with an * below.)

Agriculture:

Advanced Life Science: Animals
Advanced Life Science: Plant and Soil
Agribusiness Management
Animal Science
Natural Resources
Plant & Soil Science
Principles of Agriculture

Business:

Intro to Accounting

Trades/Engineering:

Civil Engineering & Architecture
Intro to Engineering Design
Principles of Engineering
Construction Trades I
Construction Trades II

English/Language Arts:

*Adv. English: W131/L202
*Adv. English: ENGL 111/ENGL 215
*AP Language & Composition
*AP Literature & Composition

Math:

*Quantitative Reasoning MATH 123
*College Algebra: MATH 136
*Finite Math: M118
*AP Calculus
*Statistics: MATH 200
*Calculus II: MATH 212

Performing Arts:

AP Music Theory

Radio/TV:

Interactive Media: VISC 115
Radio and Television II: VIDT 110

Science:

*Solar System Astronomy: ASTR 101
* Stellar and Galactic Astronomy: ASTR 102
*AP Biology
*AP Chemistry
*AP Environmental Science
*AP Physics
*Earth Space (SCIN 100)

Social Studies:

*American Studies: H105/H106
*AP Government
*AP Psychology
*AP World History

Visual Arts:

AP Drawing
AP 2-D Art and Design
AP 3-D Art and Design

World Languages:

AP Spanish
French 101/102
French 201/202

Next Level Programs of Study (NLPS) (Classes of 2025 & beyond)

Class of 2025 and beyond Graduation Requirements-NLPS

Example of differences between previous requirements and new requirements:



Next Level Program of Study



Pathway	Principles-Level 1	CTE Concentrator A	CTE Concentrator B	Pathway Capstone Option
Agriculture	Principles of Agriculture	Animal Science	Food Science	Agricultural Research
Agriculture	Principles of Agriculture	Plant and Soil Science	Advanced Life Science, Animals	Agricultural Research
Agriculture	Principles of Agriculture	Plant and Soil Science	Advanced Life Science, Plants and Soils	Agricultural Science
Architecture and Construction	Principles of Construction Trades	Construction Trades: General Carpentry	Construction Trades: Framing and Finishing	Construction Trades Capstone
Arts, AV, Tech and Comm.	Principles of Radio and TV	Audio and Video Production Essentials	Mass Media Production	Radio and TV Broadcasting Capstone

Business Management	Principles of Business	Management Fundamentals	Accounting Fundamentals	Business Administration
Education and Training	Principles of Teaching	Child and Adolescent Development	Teaching and Learning	Education Professions
Finance	Principles of Business	Accounting Fundamentals	Advanced Accounting	Accounting Capstone
Health Sciences	Principles of Biomedical Sciences	Human Body Systems	Medical Interventions	Biomedical Innovations
Human Services	Principles of Human Services	Understanding Diversity	Relationships and Emotions	Human and Social Services
Hospitality and Tourism	Principles of Culinary and Hospitality	Nutrition	Nutrition Planning and Therapy	Dietary Management
Marketing	Principles of Business	Marketing Fundamentals	Digital Marketing	Business Management

STEM-Computer Science	Principles of Computing (7183)	Topics in Computer Science (7351)	Computer Science (7352)	Computer Science Capstone
STEM-Engineering	Introduction to Engineering and Design	Principles of Engineering	Civil Engineering and Architecture	Engineering Design and Development
STEM-Engineering	Introduction to Engineering and Design	Principles of Engineering	Aerospace Engineering	Engineering Design and Development

Mooresville HS & Ivy Tech General Education Core Partnership

Statewide Transfer General Education Core (STGEC) also known as “Start as a Sophomore” prepares students for a successful start to an associate degree from Ivy Tech and bachelor’s degree. The 30-credit hour block transfers to all other public four-year colleges in Indiana. The curriculum of these courses is the same at Ivy Tech as the other institutions, but the tuition rate is less.

To earn the STGEC, students must complete 30 total credit hours in specified areas of which at least 15 must be earned through Ivy Tech dual credit/dual enrollment.

Speaking and Listening	3-6
<i>P155 IU Public Speaking/Advanced Speech</i>	3
Written Communication	3-6
AP Lang English Language and Comp AP	3
ENGL 111 English Composition	3
ENGL 215 Rhetoric and Argument	3
IU-W131 Composition (equivalent to ENGL 111)	3
IU-L202 Literature (equivalent to ENGL 215)	3
Quantitative Reasoning	3-12
MATH 123 Quantitative Reasoning (spring)	3
MATH 137 Trigonometry (spring)	3
MATH 136 College Algebra (fall)	3
IU-M118 Finite Math	3
MATH 200 Statistics (spring)	3
AP Calculus AB (equivalent to MATH 211 Calculus I – 3 or better)	4
MATH 212 Calculus II (fall)	4
Scientific Ways of Knowing	3-12
ASTR 101 Solar System Astronomy (fall class at Ivy Tech –)	3
ASTR 102 Stellar and Galactic Astronomy (spring class at Ivy Tech)	3
AP Biology (equivalent to BIOL 105 Biology I – 3 or better)	5
AP Chemistry (equivalent to CHEM 105 General Chemistry I – 3 or better)	5
AP Physics (equivalent to PHYS 101 Physics I – 3 or better)	4
Earth Science (SCIN 100)	4
Social and Behavioral Ways of Knowing	3-12
IU-H105 American Studies (equivalent to HIST 101)	3
IU-H106 American Studies (equivalent to HIST 102)	3
POLS Y103 Intro to American Politics	3
AP Psychology (equivalent to PSYC 101 – 3 or better)	3
AP World History (equivalent to HIST 111-112 – 3 or better)	3
Humanistic and Artistic Ways of Knowing	3-12

French 101/102	8
French 201/202	6
AP Literature (ENGL206)	3
AP Spanish Lang (equivalent to SPAN 101/102 – 3 or better)	3 or 4

General Information

Commencement Exercises

Only those students who have completed all requirements for graduation may participate in commencement exercises. Students who have not earned a passing grade for the semester in all courses required for graduation will not receive a diploma and will not participate in graduation exercises. There are no exceptions.

Report Cards

Grade reports will be posted in Skyward within the week following the end of each nine-week grading period. Parents are encouraged to review the grades carefully and contact the teachers with any questions or concerns.

Weighted Grades

Mooresville High School uses a weighted-grading system for all Advanced Placement (AP) and Dual Credit classes offered through our curriculum as defined in this Curriculum Guide. Transfer credits will be awarded the grade weight if there is an equivalent course in our curriculum. An extra weight of .025 is added to the cumulative GPA at the end of each semester for the qualifying courses where credit is earned.

MHS Calculates Grades on a 4-point Scale.

A	100.00 -- 93.00	A	4.0
A-	92.99 -- 90.00	A-	3.6
B+	89.99 -- 87.00	B+	3.4
B	86.99 -- 83.00	B	3.0
B-	82.99 -- 80.00	B-	2.6
C+	79.99 -- 77.00	C+	2.4
C	76.99 -- 73.00	C	2.0
C-	72.99 -- 70.00	C-	1.6
D+	69.99 -- 67.00	D+	1.4
D	66.99 -- 63.00	D	1.0
D-	62.99 -- 60.00	D-	0.6
F	59.99 -- 0.00	F	0.0

****Please note that AP and Dual Credit courses are dependent upon certified teacher availability

Career & Technical Education: Agricultural Education

^ADVANCED LIFE SCIENCE: ANIMALS, DUAL CREDIT (5070 ADV ANML SCI AGRI 107)

Advanced Life Science: Animals provides students with an opportunity to participate in a variety of activities including laboratory work. Students investigate concepts that enable them to understand animal life and animal science as it pertains to agriculture. Through instruction, including laboratory, fieldwork, leadership development, supervised agricultural experience and the exploration of career opportunities, they will recognize concepts associated with animal taxonomy, life at the cellular level, organ systems, genetics, evolution and ecology, historical and current issues in animal agriculture in the area of advanced life science in animals.

- Length of course: 1 year/Ivy Tech AGRI 107 (3 credits)
- Grade level: 11-12
- Counts toward third year science credit
- Prerequisite: Animal Science Estimated cost: \$50

^ADVANCED LIFE SCIENCE: PLANTS AND SOILS, DUAL CREDIT (5074 ADV PLT SL SCI AGRI 109)

Advanced Life Science: Plants and Soils provides students with opportunities to participate in a variety of activities which includes laboratory work. Students study concepts, principles and theories associated with plants and soils. Students recognize how plants are classified, grown, function and reproduce. Students explore plant genetics and the use of plants by humans. They examine plant evolution and the role of plants in ecology. Students investigate, through laboratory and fieldwork, how plants functions and the influence of soil in plant life.

- Length of course: 1 year/Ivy Tech AGRI 109 (3 credits) Grade level: 11-12
- Counts toward third year science credit
- Prerequisite:
- Plant & Soil Science Estimated cost: \$50

^AGRIBUSINESS MANAGEMENT DUAL CREDIT (5002 AG BUS MGMT AGRI 102)

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.

- Length of course: 1 year/Ivy Tech AGRI 102 (3 credits) Grade level: 11-12
- Required Prerequisites: Plant/Soil Science or Animal Science
- Estimated Cost: \$50

^ANIMAL SCIENCE, DUAL CREDIT (5008 ANML SCI AGRI 103)

Animal Science provides students with an overview of the field of animal science. Topics to be addressed include: anatomy and physiology, genetics, reproduction, nutrition. Common diseases and parasites; social/political issues related to the industry and management practices for the care and maintenance of animals while incorporating leadership development. Supervised agricultural experience and learning about career opportunities in the area of animal science.

- Length of course: 1 year/Ivy Tech AGRI 103 (3 credits) Grade level: 10-12
- Prerequisite: Prin. Of Agriculture
- Counts toward third year science credit
- Estimated cost: \$50

^PLANT & SOIL SCIENCE, DUAL CREDIT (5170 PLT SL SCI AGRI 105)

Plant taxonomy, components and their functions, plant growth, reproduction of course: 1 year and propagation, photosynthesis and respiration, environmental factors effecting plant growth, management of plant diseases and pests, biotechnology, basic components and types of soil, calculation of fertilizer application rates and procedures for application, soil tillage and conservation, irrigation and drainage, land measurement, cropping systems, precision agriculture, principles and benefits of global positioning systems and harvesting

- Length of course: 1 year/Ivy Tech AGRI 105 (3 credits) Grade level: 10-12
- Prerequisite: Prin. Of Agriculture
- Counts toward third year science credit
- Estimated cost: \$5

^PRINCIPLES OF AGRICULTURE (7117 PRIN AG AGRI 100)

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.

- Length of course: 1 year/Ivy Tech AGRI 100 (3 credits) Grade level: 9-12
- Prerequisite: none
- Estimated cost: TBD

SUPERVISED AGRICULTURAL EXPERIENCE (5228 SAE SPVSD AG EXP)

Provides students with an agricultural experience. Students will apply what is learned in the classroom, laboratory and training site to real-life situations, while working closely with their agricultural and business teachers, parents and/or employers for an optimal SAE program experience.

- Length of course: summer school only
- Prerequisite: teacher approval
- Grade level: 10-12
- Estimated cost: \$50

Career & Technical Education: Broadcasting & Computer Science

PRINCIPLES OF BROADCASTING DC (7139) (RADTV)

The purpose of the Principles of Broadcasting course is to provide entry-level fundamental skills for students who wish to seek or pursue opportunities in the field of broadcasting or mass media. Students will explore the technical aspects of audio and sound design for radio production and distribution, as well as, the technical aspects of video production and distribution. May require some hours outside of school to complete requirements/experiences. Includes outside of classroom component for field experience.

- Grade level: 9-12
- Prerequisite: none
- Length of Course: 1 year

AUDIO AND VIDEO PRODUCTION ESSENTIALS (7306) (AUD VID PROD)

Audio and Video Production Essentials provides an in-depth study on audio and video production techniques for radio, television, and digital technologies. Students will learn skills necessary for audio production and on-air work used in radio and other digital formats. Additionally, experience will be gained in the development, directing, camera, video switcher, and character generator operations. Includes outside of classroom component for field experience.

- Grade level: 10-12
- Prerequisite: Principles of Broadcasting
- Length of Course: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum

^RADIO AND TELEVISION II DC (5992 RAD TV II, DUAL CREDIT VIDT 110)

Radio and Television II prepares students for admission to television production programs at institutions of higher learning. Students train on professional equipment creating a variety of video projects. During this second-year program students integrate and build on first-year curriculum while mastering advanced concepts in production, lighting and audio. Students will also participate during self-selected live PioneerTV events as part of the Radio/TV Pathway experience. Includes outside of classroom component for field experience.

- Length of Course: 1 year, 3 Ivy Tech Credits (VIDT110)
- Grade level: 12
- Required Prerequisites: Radio and Television I

PRINCIPLES OF COMPUTING (7183 PRIN COMP INFO)

Principles of Computing provides students the opportunity to explore how computers can be used in a wide variety of settings. The course will begin by exploring trends of computing and the necessary skills to implement information systems. Topics include operating systems, database technology, cybersecurity, cloud implementations and other concepts associated with applying the principles of good information management to the organization. Students will also have the opportunity to utilize basic programming skills to develop scripts designed to solve problems. Students will learn about algorithms, logic development and flowcharting.

- Length of course: 1 year
- Recommended Prerequisite: completed or co-enrolled in Algebra 1
- Grade level 9-11
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Estimated cost: to be determined

TOPICS IN COMPUTER SCIENCE (7351 TOP COMP SCI)

Topics in Computer Science is designed for students to investigate emerging disciplines within the field of computer science. Students will use foundational knowledge from 7183 Principles of Computing to study the areas of data science, artificial intelligence, app/game development, and security. Students will utilize knowledge related to these areas and programming skills to develop solutions to authentic problems.

- Length of course: 1 year
- Prerequisite: Principles of Computing
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum.
- Grade level 10-12
- Estimated cost: to be determined

COMPUTER SCIENCE III: Cybersecurity Capstone (CS III CYBER)

Computer Science III: Cybersecurity introduces the secure software development process including designing secure applications, writing secure code designed to withstand various 69 Indiana Department of Education High School Course Titles and Descriptions types of attacks, and security testing and auditing. It focuses on the security issues a developer faces, common security vulnerabilities and flaws, and security threats. The course explains security principles, strategies, coding techniques, and tools that can help make software fault tolerant and resistant to attacks. Students will write and analyze code that demonstrates specific security development techniques. Students will also learn about cryptography as an indispensable resource for implementing security in real-world applications. Students will learn the foundations of cryptography using simple mathematical probability. Information theory, computational complexity, number theory, and algebraic approaches will be covered. Schools may use the PLTW curriculum to meet the standards for this course. Schools using the curriculum and are part of the Project Lead the Way network must follow all training and data collection requirements.

- Recommended Grade: 11, 12
- Required Prerequisites: Computer Science I
- Recommended Prerequisites: Computer Science II

- Length of Course: 1 year
- Fulfills a science course requirement for all diplomas

Career & Technical Education: Business

ADVANCED ACCOUNTING (4522 ADV ACCT)

Expands upon acceptable Accounting standards and procedures for proprietorships and partnerships using double-entry accounting covered in Introduction to Accounting Emphasis is placed on accounting principles as they relate to both manual and automated financial systems. This course involves understanding, analyzing, and recording business transactions and preparing, analyzing, and interpreting financial reports as a basis for decision making.

- Length of course: 1 year
- Prerequisite: Accounting Fundamentals
- Grade level: 12
- Estimated cost: \$50.00

ACCOUNTING FUNDAMENTALS DC (4524 INTO ACCT VINCENNES ACCT 100)

Accounting Fundamentals introduces the language of business using Generally Accepted Accounting Principles (GAAP) and procedures for proprietorships and partnerships using double entry accounting. Emphasis is placed on accounting principles as they relate to both manual and automated financial systems. This course involves understanding, analyzing, and recording business transactions and preparing, analyzing, and interpreting financial reports as a basis for decision-making.

- Estimated cost: to be determined
- Length of course: 1 year
- Grade level 11-12

COOPERATIVE EDUCATION (6162 COOP EDU)

Cooperative Education is an approach to employment training that spans all career and technical education program areas through school-based instruction and on the job training. Time allocations are a minimum of 15 hours per week of on-the-job training and approximately five hours per week of school-based instruction, focused on employability skills development. Additionally, all state and federal laws and regulations related to student employment and cooperative education must be followed. Employment while in ICE must be related to previously taken CTE course.

- Students who are missing certain required credits may stay through 5th period.
- Length of course: 1 year/3 high school credits per semester
- Grade level: 12
- Prerequisite: related CTE
- Estimated cost: \$13

DIGITAL APPLICATIONS AND RESPONSIBILITY (4528 DIG APPS RESP)

This computer course 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 should be provided with the opportunity to seek industry-recognized digital literacy certifications.

- Length of course: 1 semester
- Grade Level: 9-12
- Prerequisites: None
- Estimated Cost: TBD

DIGITAL MARKETING (7145 DGTL MARK)

Digital Marketing introduces the world of e-commerce and digital marketing media. The course covers how to integrate digital media and e-commerce into organizational and marketing strategy. Students will explore e-commerce and applications and the most popular digital marketing tactics and tools. Emphasizes familiarity with executing digital media, understanding the marketing objectives that digital media can help organizations achieve, and establishing and enhancing an organization's digital marketing presence.

- Grade level: 11-12
- Prerequisite: Principles of Business Management; Marketing Fundamentals
- Length of Course: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum

ENTREPRENEURSHIP AND NEW VENTURES (5966 ENT VENT)

This course is for students interested in owning their own business. Students will learn the ins and outs of the entrepreneurial process as well as other related topics. Students will explore the above topics through mini case studies and will use word processing, spreadsheets, and presentation software. BPA is the co-curricular organization associated with this course.

- Length of Course: 1 year
- Grade level: 11-12
- Prerequisite: CTE Concentrator Course other than Entrepreneurship
- Estimated cost: \$17

INTRODUCTION TO BUSINESS (4518 INTO BUSS)

Introduction to Business introduces students to the world of business, including the concepts, functions, and skills required for meeting the challenges of operating a business in the twenty-first century on a local, national, and/or international scale. The course covers business management, entrepreneurship, marketing fundamentals, and business ethics and law.

The course develops business vocabulary and provides an overview of business and the role that business plays in economic, social, and political environments.

- Estimated cost: to be determined
- Length of course: 1 semester
- Grade level: 9-12
- Prerequisite: none

MANAGEMENT FUNDAMENTALS (7143 MGMT FUND)

Management Fundamentals describes the functions of managers, including the management of activities and personnel. Describes the judicial system and the nature and sources of law affecting business. Studies contracts, sales contracts with emphasis on Uniform Commercial Code Applications, remedies for breach of contract and tort liabilities. Examines legal aspects of property ownership, structures of business ownership, and agency relationships.

- Grade level: 10-12
- Prerequisite: Principles of Business Management
- Length of Course: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum.

PERSONAL FINANCIAL RESPONSIBILITY (4540 PRSFINRSP)

This course addresses the identification and management of personal financial resources to meet the financial needs and wants of individuals and families, considering a broad range of economic, social, cultural, technological, environmental, and maintenance factors. This course helps students build skills in financial responsibility and decision making; analyze personal standards, needs, wants, and goals, identifying sources of income, savings, and investing; understand banking, budgeting, record-keeping and managing risk, insurance and credit-card debt.

- Estimated cost: to be determined
- Length of course: 1 semester
- Qualifies as a quantitative reasoning course
- Grade level: 12
- Prerequisite: none

PRINCIPLES OF BUSINESS MANAGEMENT (4562 BUS MGMT)

Technical education business course that prepares students to plan, organize, direct, and control functions of a business. Opportunity to study and develop attitudes and apply skills and knowledge learned in the course. Opportunity to use computers, projects, and simulations for instructional guides. BPA is the co-curricular organization that is associated with this course.

- Length of course: 1 year
- Grade level: 10-12 (9th grade may make a written request to principal for enrollment)
- Prerequisite: none
- Estimated cost: \$50

MARKETING FUNDAMENTALS (5914 PRN MRKT)

Principles of Marketing is a career and technical education business course which will provide a basic introduction to the scope and importance of marketing locally and global economy. This course will include concepts related to business, management, entrepreneurship, communication and interpersonal skills, economics, and professional development.

This course will provide the student the opportunity to continue studying marketing concepts and apply them to real-life situations. The student will use the textbook, workbook, group activities, projects, presentations, economics, and a computer simulation to understand the impact marketing has upon society and the economy. BPA is the co-curricular organization associated with this course.

- Length of course: 1 year
- Grade level: 10-12

- Prerequisite: none
- Estimated cost: \$44

STRATEGIC MARKETING (5918 STRT MRKT)

Builds upon the foundations of marketing and applies the functions of marketing at an advanced level. Students will study the basic principles of consumer behavior and examine the application of theories from psychology, social psychology, and economics. The relationship between consumer behavior and marketing activities will be reviewed.

- Length of course: 1 year
- Grade level: 10-12
- Prerequisite: Principles of Business Management, Marketing Fundamentals
- Estimated cost: \$20

WORK-BASED LEARNING CAPSTONE (5974 WBL)

Work-based Learning Capstone is a stand-alone course that prepares students for college and career. Work-Based Learning means sustained interactions with industry or community professionals in real workplace settings, to the extent practicable, or simulated environments at an educational institution that foster in-depth, first hand engagement with the tasks required of a given career field, that are aligned to curriculum and instruction. A clear partnership agreement and training plan is developed by the student, teacher, and workplace mentor/supervisor to guide the student's work-based experiences and assist in evaluating achievement and performance. Related instruction shall be organized and planned around the activities associated with the student's individual job and career objectives in a pathway; and shall be taught during the same semester the student is participating in the work-based experience. For a student to become employable, the related instruction should cover: (a) employability skills, and (b) specific occupational competencies.

- Students who have not passed certain classes may need to stay through 5th period
- Prerequisite: must complete an application to be considered for admission into the program
- **Required Prerequisites: Complete at least one advanced career and technical education (CTE) course from a program or program of study. Student's worksite placement should align to the student pathway.**
- Length of course: 1 year/3 high school credits a semester
- Grade level: 12
- Estimated cost: \$10

Career & Technical Education: Engineering & Trades

AEROSPACE ENGINEERING (5518 AE)

Provides students with the fundamental knowledge and experience to apply mathematical, scientific, and engineering principles to the design, development, and evolution of aircraft, space vehicles and their operating systems. Emphasis includes investigation and research on flight characteristics, analysis of aerodynamic design, and impact of this technology on the environment. Instruction provides creative thinking and problem-solving activities using software that allows students to design, test, and evaluate a variety of air and space vehicles, their systems, and launching, guidance and control procedures.

- Length of course: 1 year
- Prerequisite: Principles of Engineering
- Grade level: 11-12
- Estimated Cost: TBD

^CIVIL ENGINEERING AND ARCHITECTURE, DUAL CREDIT (5650 CIVIL ENG DC)

This course introduces students to the design and development of architectural and civil engineering activities. Application and design will be used with mathematical and scientific knowledge. Students will design, simulate, and evaluate the construction of buildings and communities; transportation, logistics, water resource, and environmental issues.

- Length of course: 1 year/3 Ivy Tech credits*
- Prerequisite: Principles of Engineering
- Grade level: 10-12
- Estimated cost: \$55

^INTRODUCTION TO ENGINEERING DESIGN/ DUAL CREDIT (4802 IED DC)

This course develops student problem-solving skills using a design development process; models of product solutions are created analyzed and communicated using solid modeling computer design software.

- Length of course: 1 year/3 Ivy Tech credits
- Grade level: 9-12
- Prerequisite: Algebra I or Advanced 8th Grade Math or math teacher recommendation
- Estimated cost: \$60

^PRINCIPLES OF ENGINEERING/DUAL CREDIT (5644 POE DC)

Students will understand engineering/technology by exploring various technology systems and manufacturing processes; learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people.

- Length of course: 1 year/3 Ivy Tech credits
- Prerequisite: Intro. to Engineering Design
- Grade level: 10-12

Estimated cost: \$60

^CONSTRUCTION TRADES II DUAL CREDIT (5578 CONST TRA II DC)

Construction Trades II builds on the formation, installation, maintenance, and repair skills learned in Construction Trades I. Information on materials, occupations, and professional organizations within the industry will be covered. Students will develop basic knowledge, skills, and awareness of interior trim and the installation of drywall, moldings, interior doors, kitchen cabinets, and baseboard moldings. Students will also develop exterior finishing competencies. The course includes instruction on the installation of cornices, windows, doors and various types of sidings currently used in industry. Studies will also focus on the design and construction of roof systems and the use of framing squares for traditional rafter and truss roofing.

- Length of course: 1 year; 3 credits per semester, 3 Ivy Tech Credits
- Prerequisite: Construction Trades I
- Space is limited. Factors affecting enrollment include: cohort, attendance, behavior, grades
- Grade Level: 11-12
- Estimated cost: \$57

CONSTRUCTION TRADES: FRAMING AND FINISHING (7122 CON TRD FR FIN)

Prepares students with advanced framing skills along with interior and exterior finishing techniques. Topics include roofing applications, thermal and moisture protection, exterior finishing, cold-formed steel framing, drywall installation and finishing, doors and door hardware, suspended ceilings, window, door, floor, and ceiling trim, and cabinet installation.

- Length of course: 1 year, 1 credit per semester
- Grade Level: 11-12
- Space is limited. Factors affecting enrollment include: cohort, attendance, behavior, grades
- Required Co/Prerequisites: Principles of Construction Trades; Construction Trades: General Carpentry

CONSTRUCTION TRADES: GENERAL CARPENTRY (7123 CON TRD GC)

Builds upon the skills learned in the Principles of Construction Trades and examines the basics of framing. This includes studying the procedures for laying out and constructing floor systems, wall systems, ceiling joist and roof framing, and basic stair layout. Additionally, students will be introduced to building envelope systems.

- Length of course: 1 year, 1 credit per semester
- Grade Level: 11-12
- Space is limited. Factors affecting enrollment include: cohort, attendance, behavior, grades
- Required Co/Prerequisites: Principles of Construction Trades; Construction Trades: Framing and Finishing

INTRODUCTION TO CONSTRUCTION (4792 INT CONST)

A specialized course that explores the technological processes used to produce residential, commercial, and industrial buildings and a variety of civil structures.

The course will also provide multiple projects with hands on learning to understand course concepts.

- Length of course: 1 year
- Grade level: 9-12
- Prerequisite: none
- Estimated cost: \$50

PRINCIPLES OF CONSTRUCTION TRADES (7130 PRIN CON TR)

Prepares students with the basic skills needed to continue in a construction trade field. Topics will include an introduction to the types and uses for common hand and power tools, learn the types and basic terminology associated with construction drawings, and basic safety. Additionally students will study the roles of individuals and companies within the construction industry and reinforce mathematical and communication skills necessary to be successful in the construction field.

- Grade level: 11-12
- Space is limited. Factors affecting enrollment include: cohort, attendance, behavior, grades
- Required Co/Prerequisites: Construction Trades: Framing and Finishing; Construction Trades: General Carpentry
- Length of course: 1 year, 1 credit per semester

Family and Consumer Sciences

ADULT ROLES AND RESPONSIBILITIES (5330 ADULTROLES)

Builds knowledge, skills, attitudes, and behaviors necessary for adulthood and independent living. Topics include: career planning, financial management, decision making, nutrition, housing, communication skills, and consumer issues. Project-based learning.

- Length of course: 1 semester
- Prerequisite: none
- Grade level: 12
- Estimated cost: \$11

CHILD AND ADOLESCENT DEVELOPMENT (7157 CHLD ADL DEV)

Child and Adolescent Development examines the physical, social, emotional, cognitive, and moral development of the child from birth through adolescence with a focus on the middle years through adolescence. Basic theories of child development, biological and environmental foundations of development, and the study of children through observation and interviewing techniques are explored. The influence of parents, peers, the school environment, culture and the media are discussed. An observation and experiences up to 20 hours may be required for completion of this course. This course has been approved to be offered for dual credit. Students pursuing this course for dual credit are still required to meet the minimum prerequisites for the course and pass the course with a C or better in order for dual credit to be awarded.

- Recommended Grade(s): 10, 11, 12
- Required Prerequisites: Principles of Teaching
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a directed elective or elective for all diploma

EDUCATION PROFESSIONS I- CADET TEACHING (5408 CADET)

This elective course allows for an organizational exploratory experience for students interested in the field of teaching. While a cadet teacher students will gain experience in the following areas of teaching: classroom organization, classroom management, curriculum and instructional process, observations of teaching, and instructional experiences. This cadet teaching experience occurs with K-8th grade students at Northwood Elementary and Paul Hadley Middle schools.

- Length of course: 1 year (1 class period per semester, 2 credits possible for year)
- Grade level: 11-12
- Prerequisite: none
- Estimated cost: \$20

EDUCATION PROFESSIONS II (5404 ED PROF II)

Education Professions II prepares students for employment in education and related careers and provides the foundation for study in higher education in these career areas. An active learning approach that utilizes higher order thinking, communication, leadership, and management processes is recommended in order to integrate suggested topics into the study of education and related careers. The course of study includes, but is not limited to: the teaching profession, the learner and the learning process, planning instruction, learning environment, and instructional and assessment strategies. Extensive field experiences in one or more classroom settings, resumes, and career portfolios are required components. A standards-based plan guides the students' field experiences. Students are monitored in their field experiences by the Ed. Professions II teacher.

- Recommended Grade: 12
- Required Prerequisites: Education Professions I; application process with teacher approval
- Length of Course: 1 Year (3 class periods per semester, 6 credits possible for year)

HUMAN AND SOCIAL SERVICES II (5462 HUMN SRVS II)

Human and Social Services II is a core component of the Family and Human Services pathway. Prepares students for occupations and higher education programs related to assisting individuals and families in meeting their potentials. Through work-based experiences, students apply the knowledge and skills developed in the foundation course. Concentration areas include family and social services, youth development, and adult and elder care. Ethical, legal, and safety issues, as well as helping processes and collaborative ways of working with others, will be addressed. Intensive laboratory/field experiences in one or more human social service agencies are a required component of this course.

- Length of course: 1 year
- Prerequisite: Human & Social Services I
- Grade level: 12
- Estimated cost: TBD

HUMAN DEVELOPMENT AND WELLNESS (5366 HUMAN DEV)

Examines the development and wellness of individuals throughout the life cycle. Topics include: family health and wellness within physical as well as emotional perspectives, impacts of changes and crises, and roles and functions of families and individuals. Emphasizes higher order thinking, communication, problem solving and reasoning skills.

- Grade level: 10-12
- Length of course: 1 semester
- Prerequisite: none
- Estimated cost: \$11

INTERPERSONAL RELATIONS (5364 INTRP RLT)

Addresses the knowledge, skills, attitudes, and behaviors relevant to positive, caring, and respectful relationships in family, school, community, and the workplace. Topics include: components of healthy relationships, roles and responsibilities in relationships; functions and expectations of various relationships; ethics in relationships; factors that impact relationships establishing and maintaining relationships; building self-esteem and self-image

through healthy relationships; communications styles; techniques for effective communication, leadership and teamwork; individual and group goal setting and decision making; preventing and managing stress and conflict; addressing violence and abuse; and related resources, services and agencies. Emphasizes higher order thinking, communication, problem solving and reasoning skills.

- Grade level: 9-12
- Length of course: 1 semester
- Prerequisite: none
- Estimated cost: \$10

PEER TUTORING: LIFE SKILLS (0520 PEER TUTOR LIFE SKILL)

This course provides a balance of class work relating to:

Assist student in the Explorers program with in school jobs, implementation of physical and/or occupational therapy, cooking, and other household chores

Interact with students in the Explorers program who have cognitive, emotional and/or physical disabilities Provide positive social peer relationships. Learn about the challenges, struggles, and joys of working with individuals with disabilities. Complete a research paper on a disability; complete classroom activities such as write one lesson plan for class and instruct students, plan one 1:1 activity with student in class, design classroom bulletin board, plan and attend field trip with class; write a narrative reviewing peer tutor experiences

- Prerequisites: Minimum GPA 2.0, two teacher recommendations
- Length of course: 1 year
- Grade Level: 11-12
- Estimated cost: no fee

PRINCIPLES OF TEACHING (7161 PRIN TEACH)

This course provides a general introduction to the field of teaching. Students will explore educational careers, teaching preparation, and professional expectations as well as requirements for teacher certification. Current trends and issues in education will be examined. A minimum 20 hour classroom observation experience is required for successful completion of this course.

- Grade level: 9-11
- Length of course: 1 year
- Prerequisite: none

PRINCIPLES OF HUMAN SERVICES (7176 PRIN HUM SERV)

Explores the history of human services, career opportunities, and the role of the human service worker. Focuses on target populations and community agencies designed to meet the needs of various populations. The course includes a required job shadowing project in a Human Services setting. This course will also encourage cultural awareness and appreciation of diversity. Focuses on cultural variations in attitudes, values, language, gestures, and customs. Includes information about major racial and ethnic groups in the United States.

- Grade level: 9-11
- Length of course: 1 year
- Prerequisite: none

TEACHING AND LEARNING (7162 TEACH LRN)

Teaching and Learning provides students the opportunity to apply many of the concepts that they have learned throughout the Education Professions pathway. In addition to a focus on best practices, this course will provide an introduction to the role that technology plays in the modern classroom. Through hands-on experience with educational software, utility packages, and commonly used microcomputer hardware, students will analyze ways to integrate technology as a tool for instruction, evaluation, and management.

- Grade level: 10, 11, 12
- Required Prerequisites: Principles of Teaching
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum

UNDERSTANDING DIVERSITY (7174 UND DIV)

Understanding Diversity encourages cultural awareness and appreciation of diversity. Focuses on cultural variations in attitudes, values, language, gestures, and customs. Includes information about major racial and ethnic groups in the United States.

- Grade level: 10, 11, 12
- Length of course: 1 year, 2 semester course, 2 semesters required. 1 credit per semester, 2 credits maximum.
- Prerequisite: Principles of Human Services

Health and Physical Education (PE)

ELECTIVE PHYSICAL EDUCATION – ADVANCED PHYSICAL CONDITIONING (3560 ELECT PE APC)

Must be recommended by a varsity athletic coach to take this course. Focuses on improving cardio-respiratory endurance, muscular strength and endurance; promotes the principles of lifelong fitness & healthy lifestyle; organized individual strength plans; high intensity training with a focus on daily weight lifting.

- Prerequisite: Physical Education I and II, coach recommendation, and sports physical completed
- Length of course: 1 semester (students may only take one elective P.E. course per semester)
- Course may be offered co-ed
- Grade level: 9-12
- Estimated cost: \$5
- PE uniform is required

ELECTIVE PHYSICAL EDUCATION - LIFEGUARDING/CPR/FIRST AID (3560LG ELECT PE LG)

Gives the students a chance for local employment as a certified life guard; hands-on experience at performing life-saving skills; certification will be given for Lifeguarding, CPR and First Aid

- Student must be 15 years old before the class finishes
- Length of course: 1 semester (students may only take one elective P.E. course per semester)
- Grade level: 9-12
- Estimated cost: \$45 plus a lifeguarding certificate fee
- Prerequisite: PE I, II and Water Fitness

ELECTIVE PHYSICAL EDUCATION – TEAM SPORTS (3560TS ELECT PE TS)

The goal of a physically educated student is to maintain appropriate levels of cardio-respiratory endurance, muscular strength and endurance, flexibility, and body composition necessary for a healthy and productive life. Elective Physical Education promotes lifetime sport and recreational activities and provides an opportunity for an in-depth study in one or more specific areas. It includes the study of physical development concepts and principles of sport and exercise as well as opportunities to develop or refine skills and attitudes that promote lifelong fitness. Students have the opportunity to design and develop an appropriate personal fitness program that enables them to achieve a desired level of fitness.

- Length of course: 1 semester (students may only take one elective P.E. course per semester)
- Grade level: 9-12
- Prerequisite: PE I and II
- Estimated cost: \$5

ELECTIVE PHYSICAL EDUCATION - WATER FITNESS (3560WF ELECT PE WF)

Students will participate in numerous means of water exercise. Activities include shallow water running, shallow and deep water exercises

- Length of course: 1 semester (students may only take one elective P.E. course per semester)
- Grade level: 9-12
- Prerequisite: PE I and II
- Estimated cost: \$5

ELECTIVE PHYSICAL EDUCATION OFFICIATING– (3560O ELECT PE OFFIC)

A course to offer students an opportunity to develop communication, management and leadership skills while providing an avenue for employment during high school and well beyond post-graduate through ability to become a certified sports official.

- Length of course: 1 semester (students may only take one elective P.E. course per semester)
- Course may require officiating an outside of school event
- Grade level: 9-12
- Sports physical is required
- Estimated cost: \$40

HEALTH AND WELLNESS EDUCATION (3506 HLTH)

Students will demonstrate proficiency in 10 areas of health education; gain an understanding that health is a lifetime commitment. Encourage individual responsibility for their own health.

- Length of course: 1 semester
- Prerequisite: none
- Grade level: 9-12
- Estimated cost: \$10

HEALTH SCIENCES II: PHYSICAL THERAPY (5215 HLTH SCI II)

Extended laboratory experience at the student's choice of clinical site designed to provide students the opportunity to assume the role of physical therapy assistant and practice technical skills previously learned in the classroom, including information on the health care system and employment opportunities at a variety of entry levels, an overview of the health care delivery systems, health care teams and legal and ethical considerations. It prepares students with the knowledge, skills and attitudes essential for providing basic care in extended care facilities, hospitals and home health agencies under the direction of licensed physical therapists. Students will learn skills specific to physical therapy including: observing patients progress, helping patients do specific exercises, using massage/stretching for treatment, aiding patients with devices for movement, educating patient and families, and basic assisting in cleaning treatment areas and clerical work. Provides students support to transition from school to work in health-science careers, job seeking and job maintenance skills, personal management skills, and completion of the application process for admission into a post-secondary program.

- Length of course: 1 year
- Prerequisite: Health and Wellness
- Grade level: 11-12
- Estimated cost: \$13.84

MEDICAL TERMINOLOGY (5274 MED TERM)

Medical Terminology prepares students with language skills necessary for effective, independent use of health and medical reference materials. It includes the study of health and medical abbreviations, symbols, and Greek and Latin word part meanings, all taught within the context of body systems. This course builds skills in pronouncing, spelling, and defining new words encountered in verbal and written information in the healthcare industry. Students have the opportunity to acquire essential skills for accurate and logical communication, and interpretation of medical records. Emphasis is on forming a foundation of a medical vocabulary including; appropriate and accurate meaning, spelling, and pronunciation of medical terms, and abbreviations, signs, and symbols.

- Recommended Grade(s): 11, 12
- Required Prerequisites: none
- Length of course: 1 year

English Language Arts

^ADVANCED ENGLISH/LANGUAGE ARTS, DUAL CREDIT (W131) (1124AW ADV ENG DC W131)

This course is the equivalent of W131 at Indiana University and is college level freshman writing. Students who take the class agree to pay Indiana University a set fee and will, upon completing the class, receive 3 hours of college credit provided they earn a C or higher. There are two required college textbooks that contain challenging non-fiction readings on current topics and issues. Students must write six papers – summary, critique, comparative critique, analysis, comparative analysis, and trend analysis. Each paper is of increasing complexity and length, targeting a new skill while incorporating those already introduced. Collaboration with the instructor is encouraged to ensure understanding and quality work. This class or its equivalent is transferrable to almost all in and out of state college and universities.

- Estimated cost: \$75 tuition, payable to IU (\$25 per credit hour) and textbook fees. All textbook(s) required by Indiana University will be ordered on your own and must be paid in full before the class starts to take this course.
- Prerequisite: A or B in AP Lang & Comp, cumulative GPA of 2.7 or higher or AS English 11
- Length of course: 1 semester/3 Indiana University credits (offered 1st semester)
- Grade level: 12
- **Please note that textbook assistance is not available for this course.**

^ADVANCED ENGLISH/LANGUAGE ARTS, DUAL CREDIT (L202) (1124BL ADV ENG DC L202)

This course is the equivalent of L202 at Indiana University and is a college-level literary interpretation/analysis class. Students who take the class agree to pay Indiana University a set fee and will, upon completing the class, receive 3 hours of college credit provided they earn a C or higher. There are two required textbooks for the college, one literary anthology and one paperback novel. Students must be serious readers as the course readings range from Shakespearean drama and English literature classics to a variety of modern selections of multiple genres. Emphasis is placed on interpretation, analysis, synthesis, and scope. Several two-to-three page papers are required throughout the semester as well as three major papers. Collaboration with the instructor is encouraged to ensure understanding and quality work. This class or its equivalent is transferrable to almost all in- and out-of-state colleges and universities.

- Estimated cost: \$75 tuition, payable to IU, (\$25 per credit hour) and textbook fees. All textbook(s) required by Indiana University will be ordered on your own and must be paid in full before the class starts to take this course.
- Length of course: 1 semester/3 Indiana University credits (offered 2nd semester)
- Grade level: 12
- Prerequisite: C or higher in W131
- **Please note that textbook assistance is not available for this course.**

^ADVANCED ENGLISH/LANGUAGE ARTS, DUAL CREDIT (1008AV ADV ENG DC E111)

This course is the equivalent of ENGL 111 at Ivy Tech. Students study critical reading and writing, and develop critical thinking, thought organization, and expression of ideas clearly and effectively. Expository writing includes: process, description, narration, comparison, cause/effect, and analysis. Significant focus is placed on argumentation

- Length of course: 1 semester/3 Ivy Tech credits (offered 1st semester)
- Grade level: 12
- Estimated cost: \$30
- Prerequisite: AP Lang & Comp., Eng 11 Honors, or Eng American Studies. Students enrolled in this course must have passed the English 10 ISTEP.
- **Please note that textbook assistance is not available for this course.**

^ADVANCED ENGLISH/LANGUAGE ARTS, COLLEGE CREDIT (1008BV ADV ENG DC ENGL 215)

This course is the equivalent of ENGL 215 at Ivy Tech. The focus is on argumentative writing; major writing assignments: research proposal, bibliography, critical analysis, literature review, and position paper, reading and writing intensive.

- Length of course: 1 semester/ 3 Ivy Tech credits (offered 2nd semester)
- Grade level: 12
- Estimated cost: none
- Prerequisite: C or higher in ENGL 111.
- **Please note that textbook assistance is not available for this course.**

^ADVANCED SPEECH COMMUNICATIONS DUAL CREDIT (1078SB IU SPEECHDC)

Dual Credit Speech continues the skills learned in Speech I. Major emphasis is given to the producing of formal speeches. The course focuses on leadership development, listening skills, oral interpretation, research methods, parliamentary procedure, radio and television, theatre arts, and oral debate. Students are given the opportunity to express the subject matter knowledge and content through a variety of literary genre related to the course content and speaking experiences. Special attention is given to the creating of a complete outline and support, using two or more sources, as well as individual presentation skills. Students concentrate on producing speeches that inform, motivate, entertain, persuade through the use of impromptu, extemporaneous, memorized and manuscript delivery. Students will utilize technology skills with power point presentations for business/sales speeches.

- Length of course: 1 semester
- Grade level: 11-12
- Prerequisite: Speech (seniors exempt), 2.7 GPA

AP ENGLISH LANGUAGE AND COMPOSITION (1056 LANG/COMP AP)

The AP English Language and Composition will focus on the following skills: Development and revision of evidence-based analytic and argumentative writing and the rhetorical analysis of nonfiction texts. The course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods.

- Length of course: 1 year
- Grade Level: 11
- Prerequisite: English 9H and English 10H or with teacher recommendation
- Estimated cost: \$88 + \$94 AP test (state usually pays AP exam fees for this course)

AP ENGLISH LITERATURE AND COMPOSITION (1058 LIT/COMP AP)

The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary.

- Length of course: 1 year
- Grade Level: 12
- Prerequisite: English 11H, American Studies, or with teacher recommendation
- Estimated cost: \$88 + \$94 AP exam (state usually pays AP exam fees for this course)

BIBLICAL LITERATURE (1022 BIBLE LIT)

Biblical Literature studies the *Bible*, viewed from a literary standpoint, as a source of an array of literary patterns, themes, and conventions. Students examine the different books in relation to the various historical time frames and in relation literature as it pertains to biblical themes. Students read, discuss, and write about biblical references in both classical and modern literature, formation of a canonical *Bible*, inclusion of apocryphal and heretical writings, oral versus literate transmission of sacred history and doctrine, and questions and problems of interpretation.

- Note: This course is not recognized by the NCAA for college athletics.
- Length of course: 1 semester
- Grade level: 11-12
- Prerequisite: English 9, English 10
- Estimated cost: to be determined

CREATIVE WRITING (1092 CREAT WRIT)

Creative Writing, a course based on Indiana's Academic Standards for English/Language Arts and emphasizing the High School Composition Standards, is a study and application of the rhetorical (effective) writing strategies for prose and poetry. Using the writing process, students demonstrate a command of vocabulary, the nuances of language and vocabulary, English language conventions, an awareness of the audience, the purposes for writing, and the style of their own writing. Major units include children's writing, short stories, research, and creative poetry.

- Prerequisite: English 9, English 10
- Length of course: 1 semester
- Grade level: 11-12

ENGLISH 9 (1002 ENG 9)

Novels, poetry, plays, and short stories are all part of the freshmen curriculum. Major works include *Romeo and Juliet*, *Night* and *The Odyssey*. Elements of literature are a part of each section and students learn to identify, discuss, and analyze these elements as they are reading. Vocabulary and writing are also focused around themes and elements in the literature they are studying. Students are given questions that relate to the literature or discussion and respond to it in writing. Mastering paragraph writing they are introduced to a five-paragraph essay which will enhance their preparation for the essay component of End of Course Assessments and college entrance exams. Classroom discussions and arguments provide a forum for students to learn to voice their opinions and beliefs to others by using evidence and examples to back up their statements. This practice leads to incorporating facts in backing up their opinions in their writing assignments.

- Length of course: 1 year
- Grade level: 9
- Estimated cost: \$22

ENGLISH 9 HONORS - INTERDISCIPLINARY (1002I ENG 9 HON ID)

Introduces students to various genres of literature while focusing on the development of grammar, vocabulary, and writing skills; students will read short stories, non-fiction, poetry, and plays. Major works include *Romeo and Juliet*, *Night*, *The Odyssey*, and *A Raisin in the Sun*. Students will create an autobiographical narrative as well as individual poetry books to build writing skills. An introduction to MLA formatting and writing style will prepare students for higher level English courses at MHS and beyond. This course will be taken concurrently with US History Honors ID and will focus on a cross-curricular approach to learning US History and English. Students should expect that class activities, projects, writing and reading assignments will focus on both content specific literacy and writing skills.

- Length of course: 1 year
- Grade level: 9
- Prerequisite: A or B in 8th grade Honors Language Arts or A in Language Arts and must have passed English ILEARN **AND** Co-requisite: US History Honors ID
- Estimated cost: \$22

ENGLISH 10 (1004 ENG 10)

Practice reading comprehension strategies for different genres to develop skills encompassing contextual understanding, author's purpose, and literary relevance to today's world. Build upon writing skills in order to compose a variety of well-organized responses that utilize proper grammar, spelling, punctuation, and textual support.

- Length of course: 1 year
- Grade level: 10
- Estimated cost: \$22

ENGLISH 10 HONORS (1004H ENG 10 H)

Examine various reading and writing strategies and genres in order to formulate reflective, imaginative, and analytical responses that are relevant to today's world. Explore new vocabulary to enhance literary comprehension and standard test performance. Study various writing approaches and compose focused, well-organized, essays utilizing textual support and proper grammar, spelling, and punctuation.

- Length of course: 1 year
- Grade level: 10
- Prerequisite: A or B in English 9 Honors Interdisciplinary or an A in English 9
- Estimated cost: \$22

ENGLISH 11 (1006 ENG 11)

English 11 students further develop their use of language within the study of American Literature while focusing on opportunities to select appropriate reading skills and strategies to distinguish elements in literature that make it a reflection of the social, economic, political thinking, or condition of the time; analyze literature as it reflects the point of view of the time; and identify how contemporary writing reflects past tradition and movements of the time. The formal study of grammar, usage, spelling, and language mechanics is integrated into the study of reading and writing. Vocabulary is incorporated into schedules weekly.

- Length of course: 1 year
- Grade level: 11
- Estimated cost: \$23

ENGLISH 11 HONORS (1006H ENG 11 H)

It is recommended that students taking English 11 at the honors level meet the following conditions: passed the English ISTEP exam, earned an A or B in 10th grade regular English or a C+ or higher in 10th grade Honors, and a recommendation from their 10th grade English teacher. An integrated English course based on the Indiana Academic Standards for English/Language Arts in Grades 11-12, is a study of language, literature, composition, and oral communication focusing on literature.

- Prerequisites: English 9 and English 10 or teacher recommendation
- Length of course: 1 year
- Estimated cost: \$23
- Grade level: 11

ENGLISH 11 HONORS - AMERICAN STUDIES (1006AS ENG 11 HON AS)

American Studies combines English 11 Honors and ACP United States History. Combining textbook readings with approximately six novels provides a comprehensive basis of authors as active participants in shaping and recording American history. Students are also coached in developing their critical thinking skills in order to produce clear, meaningful, college-level analytical writing. Since this is an interdisciplinary course, class times are frequently combined for guest speakers, projects, and life experiences that better help students make the connections vital to understanding the complex relationship between theory and practice. Vocabulary is an integral part of the course as are writings of varying length and focus.

- Length of course: 1 year
- Grade level: 11
- Prerequisite: A or B in English 10 Honors or an A in English 10. Additionally, students must meet all requirements of ACP US History course
- Co-requisite: ACP US History
- Estimated cost: \$88

ENGLISH 12 (1008 ENG 12)

A study of British literature through the modern era. Students will study the historical events related to each of the literary time periods. Students will learn to think critically and write analytically about the subject matter. Students will complete weekly vocabulary lessons, several written essays, and a research paper. Students will develop cover letters, letters of application, and résumés for post high school pursuits.

- Length of course: 1 year
- Estimated cost: \$23
- Grade level: 12

ENGLISH 12 HONORS (1008H ENG 12 H)

A study of British literature through the modern era. It is recommended that students taking English 12 H meet the following conditions: earned an A or B in 11th grade regular English or a C+ in a form of 11th Grade English (honors, AP, etc.), recommendation from their 11th grade teacher. Students will study the historical events related to each of the literary time periods. Students will learn to think critically and write analytically about the subject matter. Students will complete weekly vocabulary lessons, several written essays, and a research paper. Students will develop cover letters, letters of application, and résumés for post high school pursuits.

- Length of course: 1 year
- Estimated cost: \$23

Grade level: 12

FILM LITERATURE (1034 FILM LIT)

Study how literature is adapted for film. Examine the visual interpretation of literary techniques and auditory language in film. Analyze how films portray the human condition, gender roles, and ethnic/cultural minorities; produce a short-subject film

- Length of course: 1 semester
- Grade level: 11-12
- Prerequisite: English 9, English 10
- Estimated cost: no fee

GENRES OF LITERATURE (1036 GENRES LIT)

Genres of Literature, a course based on the Indiana Academic Standards for English/Language Arts, is a study of various literary genres, such as poetry, dramas, novels, short stories, biographies, journals, diaries, essays, and others. Students examine a set or sets of literary works written in different genres that address similar topics or themes. Students analyze how each genre shapes literary understanding or experiences differently, how different genres enable or constrain the expression of ideas, how certain genres have had a stronger impact on the culture than others in different historical time periods, and what the most influential genres are in contemporary times.

- Length of course: 1 semester
- Grade level: 11-12
- Prerequisite: English 9, English 10

JOURNALISM (1080 JRNALISM)

Journalism is a course based on the Indiana Academic Standards for Journalism. Through completion of this course, students learn how to be quality media consumers and media producers. The course includes specific units about news elements, journalism history, First Amendment law and ethics, fact and opinion, news writing, and feature writing. Project based learning areas include graphic design, desktop publishing, public relations, advertising, photography, and media convergence. Classroom activities reflect current events and journalistic issues in a variety of forms including discussion, writing, and presentations.

- Length of course: 1 semester
- Grade level: 9-12
- Prerequisite: None
- Estimated cost: \$6.15

SPEECH (1076 SPEECH)

Speech I provides the students with the basic skill to practice effective oral communication. This course includes instruction in adapting speech to different audiences and purposes. Students have opportunities to make different types of speeches including: informative, demonstrative, persuasive, impromptu, oral interpretation and debate. Students are given the opportunity to express subject matter knowledge and content through creative, analytical, and expository writing, as well as reading a variety of literary genre. Length of course: 1 semester

- Grade level: 9-12
- Prerequisite: none
- Estimated cost: no fee

STUDENT PUBLICATIONS: NEWSPAPER (1086N STDNT PUBS N)

Students who have taken Journalism may apply for the high school newspaper staff (The Pulse). Students will write, design, and take pictures for a student publication that is published bi-weekly and online. All aspects of Journalism are included in this practical experience. Goals are to inform and entertain the student body with coverage of school, community, and teenage issues in addition to providing a forum for opinion for the school community as a whole.

- Length of course: 1 year
- Grade level: 10-12
- Prerequisite: Journalism
- Estimated cost: no fee
- Fulfills the Fine Arts requirement for the Core 40 with AHD

STUDENT PUBLICATIONS: PUBLIC RELATIONS (1086PR STDNT PUBS PR)

Following the Indiana Student Publications standards, students will operate a public relations news bureau. Students will write, edit design and produce products for the Mooresville Community

- Length of course: 1 year
- Grade Level: 11-12
- Prerequisite: English 9 and 10; Journalism preferred
- Estimated cost: no fee
- Fulfills the Fine Arts requirement for the Core 40 with AHD

STUDENT PUBLICATIONS: YEARBOOK (1086Y STDNT PUBS Y)

Students who have taken Journalism I may apply for the high school yearbook staff (Wagon Trails). On the *Wagon Trails*, staff works as a team to publish a credible student publication that is representative of the entire student body. Students will create a journalistically-sound yearbook that appeals to the different facets of the student population and challenges and reminds staff members to think of the publication as “everyone’s book.” Staff members learn to sell ads, design or adapt layouts, write copy, take photos, manage time while working toward deadlines, and will also be responsible for hosting and mandatory participation in the variety show, “Wagon Trails Revue.”

- Length of course: 1 year
- Estimated cost: no fee
- Grade level: 10-12
- Fulfills the Fine Arts requirement for the Core 40 with AHD
- Prerequisite: Journalism

Mathematics

^ADVANCED MATHEMATICS FINITE, DUAL CREDIT (M118) (2544F ADV MTH DC M118)

Earn college credit for M118 Finite through Indiana University's Advanced College Project. Study the concepts of sets, probability, the stochastic process, matrices, linear programming, Markov chains, and applications. Adhere to the IU syllabus including curriculum and examination guidelines. Participate in IU's mid-term and final exam for M118 Finite.

- Length of course: 1 year/ 3 Indiana University credits
- Grade level: 11-12
- **Prerequisite: A or B in Pre-Calculus/Trigonometry or Pre-Calculus/Trigonometry Honors or 136/137, Cumulative GPA of 2.7 or higher**
- Estimated cost: \$26 + \$75 tuition, payable IU (\$25 per credit hour).
- All textbook(s) required by Indiana University will be ordered through MHS and must be paid in full before the class starts to be eligible for this course.
- **Please note that textbook assistance is not available for this course.**

AP CALCULUS AB (2562 AP CALC AB)

This course covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.

- Length of course: 1 year
- Grade level: 11-12
- Prerequisite: A or B in Pre-Calculus/Trigonometry or Pre-Calculus/Trigonometry Honors
- Estimated cost: \$26 + \$94 AP Exam Fee (The state government usually covers expenses for the AP Calculus Exam).

ALGEBRA I (2520 ALG I)

Provides a formal development of the algebraic skills and concepts necessary for students to succeed in advanced courses. Provides for the use of algebraic skills in a range of problem-solving situations. Provides skills necessary for success on state-mandated exam. Introduces computer-based mathematical instruction and assessment.

- Length of course: 1 year
- Prerequisite: none
- Grade level: 9-12
- Estimated cost: to be determined

ALGEBRA 1 HONORS (2520H ALG I H)

This course is offered to accelerated track mathematics students. Students will be exposed to concepts in greater depth and will move through material at a faster pace. Provides a formal development of the algebraic skills and concepts necessary for students to succeed in advanced courses. Provides for the use of algebraic skills in a range of problem-solving situations.

- Length of course: 1 year
- Prerequisite: Adv Math 8 or teacher recommendation
- Grade level: 9
- Estimated cost: to be determined

ALGEBRA II (2522 ALG II)

Extends the content of Algebra 1 and provides further development of the concept of a function. Students work to expand their abilities to model situations and solve related equations. The use of logarithms and their properties to solve exponential equations is introduced.

- Length of course: 1 year
- Prerequisite: Geometry
- Grade level: 10-12
- Estimated cost: to be determined

ALGEBRA II HONORS (2522H ALG II H)

Extends the content of Algebra 1 and provides further development of the concept of a function. Introduces concepts necessary for Pre-Calculus (radians, interval/set notation, etc.). Graphing technology is introduced using the TI-84.

- Length of course: 1 year
- Grade level: 10-12
- Prerequisite: A- in geometry or min B in Geometry Honors
- Estimated cost: to be determined

FINITE MATHEMATICS (2530 FINITE)

Addresses higher-level mathematical topics not included in calculus. Study the concepts of counting techniques, matrices, recursion, graph theory, social choice, linear programming, and game theory.

- Length of course: 1 semester (pairs with IVY TECH 123)
- Estimated cost: \$30
- Grade level: 11-12
- Prerequisite: Algebra I, Algebra II, and Geometry

GEOMETRY (2532 GEOM)

Provides students with experiences that deepen the understanding of two- and three-dimensional objects and their properties. Deductive and inductive reasoning as well as investigative strategies in drawing conclusions are stressed. An understanding of proof and logic is developed.

- Length of course: 1 year
- Estimated cost: to be determined
- Grade level: 10-12
- Prerequisite: Algebra I

GEOMETRY HONORS (2532H GEOM H)

Provides students with experiences that deepen the understanding of two- and three-dimensional objects and their properties, with an emphasis on application. Deductive and inductive reasoning as well as investigative strategies in drawing conclusions are stressed. An understanding of proof and logic is thoroughly developed, with an emphasis on theory and abstract ideas

- Length of course: 1 year
- Grade level: 9-12
- Prerequisite: grade of an A in Algebra I or min. of a B in Algebra I Honors
- Estimated cost: to be determined

PRECALCULUS (2564 PRECALC)

Pre-Calculus: Algebra extends the foundations of algebra and functions developed in previous courses to new functions, including exponential and logarithmic functions, and to sequences and series. The course provides students with the skills and understandings that are necessary for advanced manipulation of angles and measurement. Pre-Calculus: Algebra is made up of five strands: Functions; Quadratic, Polynomial, and Rational Equations and Functions; Exponential and Logarithmic Functions; Sequences and Series; and Conics. The course is designed for students who expect math to be a major component of their future college and career experiences, and as such it is designed to provide students with strong foundations for calculus and other higher-level math courses. The eight Process Standards for Mathematics apply throughout the course. Together with the content standards, the Process Standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

- Grade level: 9-12
- Required Prerequisites: Algebra II and Geometry
- 1 year

AP PRECALCULUS (2563 AP PRECALC)

Course is based on the content established and copyrighted by the College Board. This course covers topics including modeling real-world data, exploring multiple representations, and mastering symbolic manipulation. The course teaches students to approach precalculus concepts and problems when they represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.

- Recommended Grade: 10-12
- Required Prerequisites: A or B in Algebra II and Geometry
- Credits: 2 semester courses, 1 year long

MATH 123 QUANTATIVE REASONING: IVY TECH COLLEGE CREDIT

Demonstrated competency through appropriate assessment or a grade of “C” or better in Algebra II. Introduces students to the mathematics required for informed citizenship, decision making, reasoning from evidence, working with real world data, and effective communication. Students will solve problems using proportional reasoning, percentages, rates of change, linear and exponential models with applications from statistics and finance.

- Length of course: 1 semester (pairs with Finite)
- Grade level: 11-12
- Estimated cost: TBD
- Prerequisite: Algebra II plus Knowledge Assessment placement exam score

MATH 136 COLLEGE ALGEBRA: IVY TECH COLLEGE CREDIT

Presents an in-depth study of functions, quadratic, polynomial, radical, and rational equations, radicals, complex numbers, absolute value equations and inequalities, rational fractions and exponential and logarithmic functions.

- Length of course: 1 semester
- Grade level: 11-12
- Prerequisite: Algebra II plus Knowledge Assessment placement exam score

MATH 137 TRIGONOMETRY: IVY TECH COLLEGE CREDIT

Presents an in-depth study of right triangle trigonometry, oblique triangles, vectors, graphs of trigonometric functions, trigonometric identities and equations and complex numbers in rectangular and polar/trigonometric forms, rectangular and polar coordinates and conics.

- Length of course: 1 semester
- Grade level: 11-12
- Prerequisite: Alg II, Geometry plus knowledge assessment placement exam qualification

MATH 200 STATISTICS: IVY TECH COLLEGE CREDIT

Provides study in the collection, interpretation and presentation of descriptive and inferential statistics, including measures of central tendency, probability, binomial and normal distributions, hypothesis testing of one-and two-sample populations, confidence intervals, chi-square testing, correlation, data description and graphical representations. An introductory statistic courses.

- Length of course: 1 semester
- Grade level: 11-12
- Estimated cost: \$500 (tuition assistance may be available)
- Prerequisite: Pre-calculus or Pre-calculus Honors
- Course taught by Ivy Tech instructor online

MATH 212 CALCULUS II: IVY TECH COLLEGE CREDIT

Studies the techniques of substitution, integration by parts, trigonometric integrals, partial fractions and trigonometric substitution to evaluate integrals. Applies Simpson's rule and other elementary numerical quadrature methods to approximate integrals. Applies the integral calculus to find arc lengths, areas of surfaces of revolution and to solve force and work problems. Applies the direction field technique to find graphical solutions of differential equations. Applies Euler's technique to approximate the solution of initial value problems. Length of course: 1 year

- Length of course: 1 semester
- Estimated cost: \$500 (tuition assistance may be available)
- Grade level: 11-12
- Prerequisite: passing score on AP CALCULUS AB exam
- Course taught by Ivy Tech instructor online

Performing Arts

ADVANCED CONCERT BAND WINDS (4170W ADV BAND)

Class consists of woodwind and brass students. Membership and placement are determined by audition. Music of many different styles, formats and difficulty will be programmed. The band performs at concerts, festivals and community events. Members have the opportunity to participate in marching band, jazz ensemble and pep band.

- Attendance at all required performances is necessary.
- Length of course: 1 year
- Grade Level: 9-12
- Prerequisite: completion of beginning and intermediate concert band in grades 7-8
- Estimated Cost: \$50 per semester (payable to Mooresville Band Parents Association) **fundraising options available

ADVANCED CONCERT BAND PERCUSSION (4170P ADV BAND)

Class consists of woodwind and brass students. Membership and placement are determined by audition. Music of many different styles, formats and difficulty will be programmed. The band performs at concerts, festivals and community events. Members have the opportunity to participate in marching band, percussion ensemble, jazz ensemble and pep band.

- Attendance at all required performances is necessary.
- Length of course: 1 year
- Grade Level: 9-12
- Prerequisite: Completion of beginning and intermediate concert band in grades 7-8
- Estimated Cost: \$50 per semester (payable to Mooresville Band Parents Association) **fundraising options available

ADVANCED UNIVOICE CHORUS (FINESSE) (4188F ADV CHOIR F)

Multiple opportunities to perform and compete. Study advanced choral literature. Sing Group I music and perform at the State Qualification level. Develop important sight-reading and analyzation skills. Several hours of outside rehearsals are required.

- Length of course: 1 year
- Grade level: 9-12

- Prerequisite: by audition only
- Estimated cost: \$700/ year to cover costs of contests, transportation, and supplies (payable to Spotligher Invitational) ** Ample fund-raising opportunities are available to the students to offset the fees

ADVANCED MIXED CHORUS (MADRIGALS AND SPOTLIGHTERS) (4188S ADV CHOIR S)

Multiple opportunities to perform and compete. Study advanced choral literature. Sing Group I music and perform at the State Qualification level. Develop important sight-reading and analyzation skills. Several hours of outside rehearsals are required.

- Length of course: 1 year
- Grade level: 9-12
- Prerequisite: by audition only
- Estimated cost: \$700/ year to cover costs of contests, transportation, and supplies (payable to Spotlights Invitational) ** Ample fund-raising opportunities are available to the students to offset the fees

ADVANCED ORCHESTRA – CHAMBER (4174C ADV ORCH C)

Small ensemble for more advanced players who can play music from the Indiana State School Music Association (ISSMA) Group I & II literature. Advanced techniques (shifting, positions, clefs, stylistic playing). All performances are required including, but not limited to, Victorian Christmas, ISSMA Solo & Ensemble contest and possibly community events.

- Length of course: 1 year
- Grade level: 9-12
- Prerequisite: by audition only
- Estimated cost: \$30.00/year, payable to OPUS (Orchestra Parents United for Students), to cover costs of contests, transportation, music and supplies

ADVANCED THEATRE ARTS (4240 ADV THTR)

Advanced Theatre Arts students learn to write plays by composing a one-act Christmas play at least 20 typed pages in that includes stage directions, background information, set description, character descriptions, and dialogue. Students will work on set construction, prop building, creating programs, and acting. For those students pursuing a theatrical background may take this advanced theatre arts course more than once for credit pending approval by the counselor and/or teacher.

- Length of course: 1 semester (offered 2nd semester)
- Grade level: 9-12
- Prerequisite: Theatre Arts
- Estimated cost: \$9

AP MUSIC THEORY (4210 AP MUS TH)

Learn basic notational and compositional skills. Develop aural skills. Study score analysis and musical terminology.

- Length of course: 1 year
- Grade level: 11-12
- Prerequisite: none
- Estimated cost: \$23 + \$94 AP Test Fee

BEGINNING CHORUS (MILLENNIUM) (4182M CHOIR M)

Multiple opportunities to perform in a non-competitive format; a few opportunities to compete competitively. Study choral literature. Learn proper rehearsal and performance techniques, solfege, and develop important sight-reading skills.

- Length of course: 1 year
- Grade level: 9-12 Prerequisites: none
- Estimated cost: \$350/year to cover costs of contests, transportation, and supplies (payable to Spotlighter Invitational) ** Ample fund-raising opportunities are available to the students to offset fees

BEGINNING UNIVOICE CHOIR (SENSATIONS) (4182 BEG CHOR)

Multiple opportunities to perform in a non-competitive format. Study beginning choral literature. Learn proper rehearsal and performance techniques. Learn solfege and develop important sightreading skills.

- Length of course: 1 year
- Grade level: 9-12
- Prerequisite: none
- Estimated cost: \$50 (payable to Spotlighter Invitational)

BEGINNING ORCHESTRA (4166 BEG ORCH)

Intermediate techniques (positions, some shifting, new keys). All performances are required.

- Length of course: 1 year
- Grade level: 9-12
- Prerequisite: Students must have previous experience on violin, viola, cello or string bass
- Estimated cost: \$125 for yearly fee and concert attire (one-time expense). Payable to OPUS.

DANCE PERFORMANCE (4146 DNC PERF)

A performance-based class where the students will learn about various movement genres and techniques. While learning about the different genres the students will utilize the techniques learned by performing small pieces in front of the class for a grade. The students will learn about the different dance and equipment portions of the activity. Students will learn flag technique and choreography for pieces to perform in front of the class for a grade. Throughout the class the students will not only be exposed to dance and equipment techniques, genres and performances but also vocabulary, group work and musical interpretation. Students will participate in auditions to learn the skills needed not only for the beginning of the semester but the school year as a whole, as well as to see if they really would like to participate in the course.

- Length of course: 1 year
- Grade level: 9-12
- Estimated cost: no fee

INTERMEDIATE CHORUS (NEXUS) (4186 CHOIR N)

Multiple opportunities to perform in a non-competitive format; opportunities to compete competitively. Study intermediate choral literature; continue to work on rehearsal and performance techniques; develop solfege and sight-reading skills. Some outside rehearsal time is required.

- Length of course: 1 year
- Grade level: 9-12 Prerequisites: none
- Estimated cost: \$500/year to cover costs of contests, transportation, and supplies (payable to Spotlighter Invitational) ** Ample fund-raising opportunities are available to the students to offset the fees

INTERMEDIATE ORCHESTRA (4172 INT ORCH)

Advanced techniques (shifting, positions, complex rhythms). Variety of genres in music (classical, pop/rock, jazz, multicultural). All performances are required as an extension of the classroom learning

- Length of course: 1 year
- Grade level: 9-12
- Prerequisite: none
- Estimated cost: \$30.00/year, payable to OPUS (Orchestra Parents United for Students), contests, transportation, music and supplies expenses

THEATRE ARTS (4242 THTR ARTS)

This course provides a study of theatre arts such as acting, stagecraft, makeup, costuming, and other aspects of play production. Students will practice body movement and vocal techniques of acting and interpretation. Representative examples of outstanding drama may be studied. This class will present the Christmas play with MHS theatre arts students.

- Length of course: 1 semester (offered 1st semester)
- Grade level: 9-12
- Prerequisite: none
- Estimated cost: \$3

Science

AP BIOLOGY (3020 AP BIO)

Provide a college level study of the biological sciences; develop college level critical thinking skills; prepare for the comprehensive AP Biology Exam given in May; use collected data to solve biological problems; summer assignments will be required prior to the start of the course.

- Length: 1 year
- Grade level: 10-12
- Prerequisite: A or B in Biology I and an A or B in Chemistry I
- Estimated cost: \$71 + \$94 AP Exam Fee (state usually pays for science AP exam fee for 11th and 12 graders only).

AP CHEMISTRY (3060 AP CHEM)

Study college level general chemistry. Explore the composition and changes of matter with detailed analysis, sophisticated models and in-depth laboratory investigations. Prepare for the College Board AP Chemistry Exam in May through college-level instruction and laboratory experiences. Summer assignments will be required prior to the start of the course.

- Length of course: 1 year
- Grade level: 10-12
- Prerequisite: A or B in Chemistry I Honors or an A in Chemistry I
- Estimated cost: \$55 + \$94 AP Exam fee, a scientific calculator & lab safety goggles (state usually pays for science AP exam fee for 11th and 12 graders only).

AP ENVIRONMENTAL SCIENCE (3012 AP ENVSCI)

AP Environmental Science investigates the following: Scientific principles, concepts and methodologies required to understand the interrelationships of the natural world. Identify and analyze environmental problems both natural and human-made. Evaluate the relative risks associated with these problems. Examine solutions for resolving and/or preventing them.

- Length of course: 1 Year
- Grade Level: 11-12
- Prerequisite: Biology and A or B in Chemistry
- Estimated cost: \$30 + \$94 AP Exam fee (state usually pays for science AP exam fee for 11th and 12 graders only)

AP PHYSICS 1 (3080 AP PHYS 1)

Detailed analysis of the algebraic base and practical applications of motion, energy, atomic structure, sound, light and electricity. Explore technical applications through frequent laboratory experiences, group projects and independent projects (students will be responsible for purchasing materials for projects). Prepare for college-majors in medical science, engineering science, or technology. Parallel introductory college courses in physics by following the College Board guidelines for Advanced Placement Physics. Require an average of 5-10 hours per week of outside class work. Prepare for the Advanced Placement Physics 1 test at the end of the year. Summer assignments may be required prior to the start of the course.

- Length of course: 1 year
- Grade level: 11-12
- Prerequisite: A or B in Physics I
- Co-requisite: Pre-Calculus/Trigonometry
- Estimated cost: \$48 + \$94 AP Test Fee (state usually pays for science AP exam fee for 11th and 12 graders only)

BIOLOGY I (3024 BIO I)

Provide entry-level biology content; experience a variety of instructional methods including lecture, demonstrations, lab work, and group projects; low-level math skills required. Topics covered include: the nature of life, ecology, cells, genetics, and evolution.

- Length of course: 1 year
- Prerequisite: none
- Grade level: 9-12
- Estimated cost: \$31

CHEMISTRY I (3064 CHEM I)

Study the composition and interactions of materials. Apply algebra skills, theoretical models, and use laboratory investigations to explore and observe the nature of matter and chemical change. Prepare for further studies in science. Recommended for strong math students and are planning to enter post-secondary education

- Length of course: 1 year
- Grade level: 9-12
- Prerequisite: Biology and an A or B in Algebra I
- Estimated cost: \$31 and a scientific calculator & lab safety goggles.

CHEMISTRY I HONORS (3064H CHEM I H)

Study the composition and interactions of materials in an in-depth manner. Apply algebra expertise, abstract models and complex laboratory procedures to explore, observe and analyze the nature of matter and chemical change. Prepare for Advanced Placement Chemistry, Advanced Placement Physics or Advanced Placement Biology

- Length of course: 1 year
- Grade level: 9-12
- Prerequisite: Biology and an A in Algebra
- Estimated cost: \$31 and a scientific calculator & lab safety goggles

EARTH SPACE SCIENCE (3044 EAS SCI)

Includes a variety of instructional methods including lecture, demonstrations, lab work, and group projects. Low-level math skills required. Study modeling the Earth, Earth's matter, Earth's dynamics, Earth's changing surfaces, atmosphere, weather, oceans, and outer space

- Length of course: 1 year
- Prerequisite: none
- Grade level: 10-12
- Estimated cost: \$30

EARTH SPACE SCIENCE II DC (3046 EAC SCI II)

Earth Space Science II is an extended laboratory, field, and literature investigations-based course whereby students apply concepts from other scientific disciplines in synthesizing theoretical models of earth and its interactions with the macrocosm. Students enrolled in this course examine various earth and space science phenomena, such as the structure, composition, and interconnected systems of earth and various processes that shape it, as well as earth's lithosphere, atmosphere, hydrosphere, and celestial environment. Students analyze and apply the unifying themes of earth and space science as part of scientific inquiry aimed at investigating earth and space science problems related to personal needs and community issues.

- Length of course: 1 year, 1 credit per semester
- Prerequisite: Earth Space Science
- Grade level: 10-12
- Estimated cost: \$40

HUMAN BODY SYSTEMS/PLTW (5216 HUMAN SYST PLTW)

Examine the processes, structures and interactions of the human body. Explore the role and careers of biomedical professionals. Collaboratively explore the prevention, diagnosis and treatment of health challenges of the 21st century. Acquire strong teamwork and communication practices. Develop organizational, critical-thinking, and problem-solving skills.

- Length of course: 1 Year
- Grade level: 10-12
- Prerequisite: Principles of Biomedical Sciences Estimated cost: \$55

INTEGRATED CHEMISTRY-PHYSICS (3108 ICP)

Laboratory based class in which students will explore fundamentals of chemistry and physics Investigate the structure and properties of matter, chemical reactions, force, motion, and the interactions between matter and energy. Apply the principles of chemistry and physics to real world problems. Solving chemistry and physics problems using basic Algebra skills Length of course: 1 year

- Grade level: 10-12
- Estimated Cost: \$25
- Prerequisite: Algebra I, grade of C or better for 10th grade

MEDICAL INTERVENTIONS/PLTW (5217 MED INTERV PLTW)

PLTW Medical Interventions is a course that studies medical practices including interventions to support humans in treating disease and maintaining health. Using a project-based learning

approach, students will investigate various medical interventions that extend and improve quality of life, including gene therapy, pharmacology, surgery, prosthetics, rehabilitation, and care.

- Length of course: 1 year
- Grade Level: 11-12
- Prerequisite: Human Body Systems
- Estimated cost: \$55

PHYSICS I (3084 PHYS I)

Study the fundamental concepts & principles of motion and energy. Provide opportunities to relate physics to everyday life and social issues. Explore the uses of physics' laws, models and theories in various careers and disciplines. Develop mathematical problem-solving and investigative skills in a science; complete various independent projects (students will be responsible for purchasing materials for projects)

- Length of course: 1 year
- Grade level: 10-12
- Prerequisite: Geometry
- Estimated cost: \$32 and a scientific calculator with trigonometric functions

PRINCIPLES OF BIOMEDICAL SCIENCES/PLTW (5218 PRIN BIOMED PLTW)

Work involves the study of human medicine, research processes and an introduction to bioinformatics. Investigate the human body systems and various health conditions including heart disease, diabetes, hypercholesterolemia, and infectious diseases. Students will determine the factors that led to the death of a fictional person, then investigate lifestyle choices and medical treatments that might have prolonged 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.

- Estimated cost: \$35
- Length of course: 1 Year
- Grade level: 9-10
- Prerequisite: C or better in 8th Grade Biology or an A or B in freshman level Biology

SOLAR SYSTEM ASTRONOMY: IVY TECH COLLEGE CREDIT ASTR 101

Survey of the history of astronomy, astronomical cycles and phenomena, astronomical instruments, formation and evolution of the planets and their satellites, comparative planetology, asteroids, comets, meteors, the sun, and the origin of the solar system. Includes lab.

- Course will be taught on the Ivy Tech Mooresville campus during 1st period. Students will be responsible for their own transportation.
- Estimated cost: \$610 (tuition support may be available)
- Length of course: 1 sem (fall)
- Grade level: 11-12
- Prerequisite: Chemistry
- Course taught by Ivy Tech instructor online

STELLAR AND GALACTIC ASTRONOMY: IVY TECH COLLEGE CREDIT ASTR 102

Survey of the types and properties of stars, birth and life cycle of stars, including white dwarfs, neutron stars, and black holes, structure and dynamics of galaxies, galactic evolution, cosmology, birth and fate of the universe, and life in the universe. Includes lab.

- Course will be taught on the Ivy Tech Mooresville campus during 1st period. Students will be responsible for their own transportation.
- Estimated cost: \$610 (tuition support may be available)
- Length of course: 1 semester (spring)
- Grade level: 11-12
- Prerequisite: ASTR 101 Course taught by Ivy Tech instructor online

Social Studies

ADVANCED SOCIAL SCIENCE AMERICAN HISTORY, DUAL CREDIT (H105/106) (1574 ADV SS DC US)

ACP is a dual credit course in association with Indiana University. Two semesters course H105 and H106. The course has a chronological frame work from 1492 to the present. A variety of historical themes are examined in order to place the history of the US into a larger analytical context. Students are expected to analyze and interpret primary sources. Course involves extensive writing and research assignments.

- This course requires a summer reading assignment.
- Length of Course: 1 year
- Grade level: 11
- Prerequisite: Geography History of the World Honors or AP World History, Cumulative GPA of 2.7 or higher, Co-requisite: English 11 Honors-American Studies
- Estimated cost: \$75 tuition per semester (\$25 per credit hour) and textbook fees. All textbook(s) required by Indiana University will be ordered through MHS and must be paid in full before the class starts to be able to take this course.
- **Please note that textbook assistance is not available for this course.**

AP PSYCHOLOGY (1558 AP PSYCH)

This course is designed to introduce students to the systematic and scientific study of the behavior and mental processes. Topics include: history and approaches along with research methods, biological bases of behavior, sensation, perception, states of consciousness, learning, cognition, motivation and emotion, developmental psychology and personality, testing and individual differences, abnormal psychology and treatment of psychological disorders, social psychology

- Length of course: 2 semesters

- Grade Level: 11-12
- Estimated Cost: \$17 + \$94 for AP test

U.S. GOVERNMENT DC (1574G ADV GOVT IU)

United States Government and Politics Dual Credit is a course based on the content established by Indiana University. U.S. Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behavior. They also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. In addition, they complete a political science research or applied civics project.

- Length of course: 1 semester
- Grade level: 12
- Prerequisite: US History and World History.
- Estimated cost: TBD + \$94 for the AP Exam

AP WORLD HISTORY MODERN (1612 AP WLD HST MD)

The course will have a chronological frame from the periods 8000 B.C.E. to the present. AP World History focuses on five overarching themes: interaction between humans and the environment; development and interaction of cultures; state-building, expansion and conflict; creation, expansion and interaction of economic systems.

- Length of course: 1 year
- Grade Level: 10-12
- Prerequisite: US History Honors or with teacher recommendation Co-requisite: English 10 Honors
- Estimated cost: \$55 + \$94 for AP Exam fee

ECONOMICS (1514 ECON)

This course analyzes the economic reasoning used by consumers, producers, savers, investors, workers, and government agencies. Through a variety of projects and hands on experiences students will gain a basic understanding of market structures and the role of business in our economic system.

- Length of course: 1 semester
- Prerequisite: none
- Grade level: 12
- Estimated cost: \$19

ETHNIC STUDIES (1516 ETH STUDIES)

This course provides opportunities to broaden students' perspectives concerning lifestyles and cultural patterns of ethnic groups in the United States. This course will either focus on a particular ethnic group or groups, or use a comparative approach to the study of patterns of cultural development, immigration, and assimilation, as well as the contributions of specific ethnic or cultural groups. The course may also include analysis of the political impact of ethnic diversity in the United States.

- Length of course: 1 semester
- Grade level: 9-12
- Estimated cost: to be determined

GEOGRAPHY & HISTORY OF THE WORLD (1570 GEO-HST WLD)

This course emphasizes the events and developments of past civilizations. Mandatory 1st semester project. The goal is for students to research key historical events and examine examples of continuity, change, unity and diversity among various groups and cultures from the past to the present.

- Length of course: 1 year
- Grade level: 10
- Prerequisite: US History
- Estimated cost: \$21

GEOGRAPHY & HISTORY OF THE WORLD HONORS (1570H GEO-HST WLD H)

This course involves an intensive discovery of key events and developments pertaining to past civilizations and cultures. Mandatory 1st and 2nd semester project. Reading and analysis of historical novels. Students will be engaged in extensive writing assignments, historical research, analysis, and individual and group projects that are designed to enhance student understanding and academic development. This course is designed to be aligned to English 10 Honors and will focus on a cross-curricular approach to learning World History and English. Students should expect that class activities, projects, writing and reading assignments will align to both the content being taught in their English 10 Honors and World History Honors course. The academic rigor established in this course is to prepare students for American Studies at the junior level. This course will be taken concurrently with English 10 Honors ID and will focus on a crosscurricular approach to learning World History and English. Students should expect that class activities, projects, writing and reading assignments will focus on both content specific literacy and writing skills.

- Length of course: 1 year, Grade level: 10
- Prerequisite: grade of B or better in US History Honors/US History Honors Interdisciplinary
- Estimated cost: \$21

INDIANA STUDIES (1518 IN STUDIES)

This course focuses on the state and national developments in politics, economics, history, and culture. Uses Indiana history as a basis for understanding current legislative policies, practices, and procedures. It examines state and national constitutions from a historical and current foundations of government. Selections from Indiana arts and literature may also be analyzed for insights into historical events and cultural expressions.

- Length of course: 1 semester
- Prerequisites: none
- Recommended Grade Level: 9-12

- Estimated cost: to be determined

PSYCHOLOGY (1532 PSYCH)

The course focuses on the scientific study of mental processes, behavior, developmental psychology, social and moral development, learning, and memory.

The course also outlines mental health topics and the biological way the brain and nervous system functions.

- Length of course: 1 semester
- Grade level: 11-12
- Estimated cost: \$17

SOCIOLOGY (1534 SOC)

The course provides students the opportunity to study human social behavior from a group perspective. Students will examine society, group behavior, and social structure through research methods and scientific inquiry. Students will analyze a range of social problems in today's world and examine the impact those problems have on the individual and society.

- Length of course: 1 semester
- Prerequisite: none
- Grade level: 11-12
- Estimated cost: no fee

UNITED STATES GOVERNMENT (1540 US GOVT)

The class provides an understanding of the purpose, principals, and practices of constitutional representative democracy in the United States. Students will analyze how the US government interacts with other nations in world affairs. Focus on the role, rights, and responsibilities of US citizens. Requires that students take the US Citizenship test.

- Course has a mandatory semester project
- Grade level: 12
- Length of course: 1 semester
- Estimated cost: \$19

UNITED STATES HISTORY (1542 US HIST)

Students are expected to trace and analyze chronological periods and examine the relationship of specific themes related to the history of the United States. The course examines the interaction of key events, persons, and groups with political, social, and cultural influences on state and national develop in post-Civil War America. Students will investigate history through the use of technology and problem solving.

- Length of course: 1 year
- Estimated cost: \$20
- Grade level: 9

UNITED STATES HISTORY HONORS - INTERDISCIPLINARY (1542I US HIST HON ID)

Honors US history includes extensive writing assignments as well as extensive supplemental reading of primary and secondary documents. The focus of this course is post-Civil War US

history. Honor students will not only focus on the interaction of key events, person, and groups but will also be responsible for developing the skills of historical analysis. Mandatory 1st and 2nd semester projects and reading of historical novels. Estimated supplemental cost to be determined. This course will be taken concurrently with English 9 Honors ID and will focus on a crosscurricular approach to learning US History and English. Students should expect that class activities, projects, writing and reading assignments will focus on both content specific literacy and writing skills.

- Length of course: 1 year
- Co-requisite: English 9 Honors ID
- Grade level: 9
- Estimated cost: \$20

Visual Arts

ADVANCED TWO-DIMENSIONAL ART (4004 ADV 2D ART)

Laboratory based exploration class further exploring a variety of techniques and media building prior knowledge. Improving drawing and painting skills. Broaden an experience in 2D art while continuing to create a portfolio for college

- Length of course: 1 semester
- Prerequisite: Intro to 2D Art
- Grade level: 9 – 12
- Estimated cost: \$15

ADVANCED THREE-DIMENSIONAL ART (4006 ADV 3D ART)

Laboratory-based exploration of 3-dimensional media and techniques such as bas-relief and freestanding sculptures. Lab-based exploration of jewelry and textiles; broaden experiences in 3D art to include stone and lithography

- Length of course: 1 semester
- Grade level: 9 – 12
- Estimated cost \$15
- Prerequisite: Intro to 3D Art

AP 2-D ART (4050 AP ART 2D)

Laboratory class developing a college portfolio. First semester will improve on rendering and rounding skills. Second semester the students will focus on one specific area or skill

- Length of course: 1 year
- Grade level: 11 - 12
- Prerequisite: 4 semesters of art classes
- Estimated cost: \$30 + \$94 AP Exam Fee

AP 3-D ART AND DESIGN (4052 AP ART 3D)

AP 3-D Design is a course established and copyrighted by the College Board. Consists of a portfolio exam. The 3-D Design portfolio involves decision making about how to use the elements and principles of art as they relate to the integration of depth, space, volume, and surface, either actual or virtual. Students' portfolios demonstrate skills and ideas developed, refined, and applied throughout the course to produce visual compositions. Students may choose to submit any or all of the portfolios. Portfolios are evaluated based on standardized scoring descriptors aligned with skills and understanding developed in college foundation courses. The portfolio will have two sections: Sustained Investigation and Selected works.

- Length of course: 1 year
- Grade level: 11 - 12
- Prerequisite: 4 semesters of art classes
- Estimated cost: \$TBD + \$94 AP Exam Fee

AP DRAWING (4048 AP DRP)

AP Drawing is a course established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. The AP Studio Art Program consists of three portfolio exams—2-D Design, 3-D Design, and Drawing—corresponding to the college foundation courses. Portfolios allow flexibility of coursework while guiding students to produce collegelevel quality, artistic investigation, and breadth of work. The Drawing portfolio addresses issues such as line quality, light and shade, rendering of form, composition, surface manipulation, the illusion of depth, and mark-making. Students' portfolios demonstrate skills and ideas developed, refined, and applied throughout the course to produce visual compositions. Students may choose to submit any or all of the portfolios. Portfolios are evaluated based on standardized scoring descriptors aligned with skills and understanding developed in college foundation courses. The portfolio will have two sections: Sustained Investigation and Selected works.

- Length of course: 1 year
- Grade level: 11 - 12
- Prerequisite: 4 semesters of art classes
- Estimated cost: \$TBD + \$94 AP Exam Fee

CERAMICS (4040 CERAMICS)

Studio opportunity to explore all varieties of hand building techniques such as pinch, coil, slab, drape, and mold. Lab-based training on the potter's wheel to make bowls and cups. Examination of surface decoration through carving, appliques, and glazing. Differentiation provided for applied vs. fine arts. Technical training in kiln and studio maintenance as well as business applications and opportunity sell work

- Length: 1 semester
- Prerequisite: Intro to 3D Art
- Grade level: 9-12
- Estimated cost: \$15

JEWELRY (4042 JWLRY)

Jewelry is a course based on the Indiana Academic Standards for Visual Art. Students in Jewelry engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. Students create works of jewelry

design and fabrication techniques including sawing, piercing, filing, and soldering. They reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize, and make informed judgements about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

- Length of course: 1 semester
- Grade level: 10 – 12
- Recommended Prerequisite: Intro to 2D Art and Introduction to 3D Art
- Estimated cost: \$25

DRAWING (4060 DRAWING)

Areas to be covered: sketching, rendering and perspective drawing; developing the knowledge of how light affects things and rounding objects

- Length of course: 1 semester
- Grade level: 9 – 12
- Prerequisite: Intro to 2D Art
- Estimated cost: \$15

INTRODUCTION TO THREE-DIMENSIONAL ART (4002 3D ART)

Exploration of the elements of art and design in 3-D art; exploration of various media and techniques used in 3-D art

- Length of course: 1 semester
- Prerequisite: none
- Grade level: 9 – 12
- Estimated cost: \$15

INTRODUCTION TO TWO-DIMENSIONAL ART (4000 2D ART)

Laboratory class introducing various media and techniques; exploration of the elements of art and design in 2D art; begin to create a portfolio for college Length of course: 1 semester

- Length of course: 1 semester
- Prerequisite: none
- Grade level: 9 – 12
- Estimated cost: \$15

PAINTING (4064 PAINTING)

Painting still life, people and landscapes; media - water colors, acrylic and oil

- Length of course: 1 semester
- Prerequisite: Intro to 2D Art
- Grade level: 9 – 12
- Estimated cost: \$15

PAINTING 2 (40642 PAINTING 2)

Students study art history, art criticism, aesthetics, and production that lead to the creation of a portfolio. Students create abstract and realistic paintings, using a variety of materials such as:

mixed media, watercolor, oil, and acrylics as well as techniques such as stippling, gouache, wash, and impasto; students explore cultural/historical connections; analyze, interpret, theorize artwork; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art--related careers.

The nature of this course allows for successive semesters of instruction at an advanced level provided that defined proficiencies and content standards are utilized. The goal of Painting 2 is to increase participation in AP Art

- Length of course: 1 semester
- Grade level: 9 - 12
- Prerequisite: Intro to 2D art and Painting
- Estimated cost: \$15

PHOTOGRAPHY (4062 PHOTOGRPH)

Students in photography engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works, creating photographs while utilizing a variety of digital tools

They reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills.

Students utilize the resources of art museums, galleries, and studios, and identify art related careers.

- Length of course: 1 semester
- Grade Level: 9- 12
- Prerequisite: none
- Estimated cost: \$15

PHOTOGRAPHY 2 (40622 PHOTO 2)

Photography is a course based on the Indiana Academic Standards for Visual Art.

Students in photography engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works, creating photographs, films, and videos utilizing a variety of digital tools and dark room processes. They reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-- related careers.

- The goal of Photography 2 is to increase participation in AP Art.
- Length of course: 1 semester
- Grade Level: 9- 12
- Prerequisite: Photography
- Estimated cost: \$15

PRINTMAKING (4066 PRNTMKG)

Printmaking is a course based on the Indiana Academic Standards for Visual Art. Students in printmaking engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production that lead to the creation of portfolio quality works. Students apply

media, techniques, and processes with sufficient skill to communicate intended meaning. They create abstract and realistic prints using a variety of materials such as linocut, woodcut, stencil, silkscreen, photo silkscreen, and mono-print. They utilize processes such as etching, relief, and lithography to explore a variety of ideas and problems. Students reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

- Length of course: 1 semester
- Grade Level: 10- 12
- Prerequisite: Intro 2D Art preferred
- Estimated cost: \$20

World Language

FRENCH I (2020 FREN I)

Introduces students to effective strategies for beginning French language learning, and to various aspects of French-speaking culture. Communication skills: speaking and writing, understand and use appropriate greetings, participate in conversations, and write short passages. Development of reading and listening comprehension skills. Examines the practices, products and perspectives of French-speaking culture.

- Length of course: 1 year
- Grade level: 9-12
- Prerequisite: A or B in 8th grade English
- Estimated cost: to be determined

FRENCH II (2022 FREN II)

French II builds upon effective strategies with the use of the language and cultural understanding. Encourages interpersonal communication through speaking and writing, providing opportunities to make and respond to requests and questions in expanded contexts. Participate independently in brief conversations on familiar topics. Students will describe the practices, products and perspectives of French-speaking culture

- Length of course: 1 year
- Grade level: 9-12
- Prerequisite: French I
- Estimated cost: to be determined

FRENCH III Dual Credit (2024 FREN III)

French III, a course based on Indiana's Academic Standards for World Languages, builds upon effective strategies for French language learning by facilitating the use of the language and cultural understanding for self-directed purposes. This course encourages interpersonal communication through speaking and writing, providing opportunities to initiate, sustain and

close conversations; exchange detailed information in oral and written form; and write cohesive information with greater detail.

- Recommended Grade: 9-12
- Prerequisites: French I and II
- Length of course: 1 year
- Estimated cost: to be determined

FRENCH LANGUAGE IV Dual Credit (2026 FREN IV)

This course is based on content approved by the College and emphasizes communication by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. This course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in French. The course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions).

- Length of course: 1 year
- Grade level: 12
- Prerequisite: French III
- Estimated cost: \$20 + \$94 AP Exam Fee

SPANISH I (2120 SPAN I)

Learn to use and understand basic structures of the Spanish language through listening, speaking, reading and writing. Attain the necessary vocabulary and grammar to be able to engage in simple conversations and write simple texts in the present and past tense over topics such as greetings/leave-takings, school, family, daily activities, vacations and shopping. Begin to compare and contrast Hispanic people/culture and American culture Vocabulary memorization is a key study skill necessary to be successful in foreign language study.

- Length of course: 1 year
- Prerequisite: A or B in 8th grade English
- Grade level: 9-12
- Estimated cost: \$20

SPANISH II (2122 SPAN II)

Review and apply what was learned in Spanish I to continue to improve Spanish language skills in listening, speaking, reading and writing at an intermediate-level. Continue to enhance vocabulary base and study grammar more in-depth to be able to engage in intermediate-level conversations and write texts over topics such as health, daily routine, medical situations, technology, home and nature. Further understanding of Hispanic people/culture

- Length of course: 1 year
- Prerequisite: Spanish I
- Grade level: 10-12
- Estimated cost: \$20

SPANISH III (2124 SPAN III)

Review and apply the skills learned in Spanish II to continue to improve in advanced Spanish language skills in listening, speaking, reading and writing. Attain the necessary vocabulary and grammar to be able to engage in advanced-level conversations, write texts in several verb tenses over topics such as personal relationships, hobbies, home responsibilities, work and personal health. Further understanding of Hispanic people/culture through use of authentic resources; academic course beneficial for college preparation.

- Length of course: 1 year
- Prerequisite: Spanish II
- Grade level: 11-12
- Estimated cost: \$20

AP SPANISH LANGUAGE, (2132 AP SP LANG)

This course is based on content approved by the College Board. Parallels the skill development of a college-level Spanish course in advanced composition and conversation. Designed for the student to work toward mastery of listening, speaking, reading and writing skills through the use of authentic materials. Allows students to demonstrate their Spanish proficiency through interactive, receptive and productive communication opportunities. The course is conducted almost exclusively in Spanish.

- Length of course: 1 year
- Grade level: 12
- Prerequisite: Spanish III
- Estimated cost: \$20 + \$94 AP Exam Fee