



2018-2019

Course Description

Guide

North Montgomery
High School

Table of Contents

General Introduction.....	3
Scheduling Information.....	4
Dual Credit Opportunities.....	5
Graduation Requirements.....	8
Quantitative Reasoning Courses.....	11
Weighted Grades Information.....	12
Latin Recognition.....	12
CTE: Agriculture.....	14
CTE: Business, Marketing & Information Technology.....	16
CTE: Engineering/Technology.....	18
CTE: Family & Consumer Sciences.....	20
English/Language Arts.....	25
Fine Arts.....	29
Health and Physical Education.....	35
Mathematics.....	37
Multidisciplinary.....	42
Science.....	42
Social Studies.....	46
West Central Cooperative Education Programs.....	50
World Language.....	58
Advisory Classes.....	62

General Information

North Montgomery High School is a comprehensive high school with a curriculum designed to allow students to complete requirements for graduation as prescribed by the State Board of Education and the North Montgomery Board of Education, as well as to prepare for entry into post-secondary institutions, vocational education, and entry-level employment.

North Montgomery Community School Corporation does not discriminate on the basis of race, color, religion, gender, national origin, including limited English proficiency, military service, age, or disability, in its educational programs, activities, or employment policies as required by the Indiana Civil Rights Law (I.C. 22-9-1), Title VI and VII (Civil Rights Act of 1964), the Equal Pay Act of 1973, Title IX (Educational Amendments), Section 504 (Rehabilitation Act of 1973), and the Americans with Disabilities Act (42 USCS §12101, et. seq.).

Inquiries regarding compliance by the North Montgomery Community School Corporation with Title IX and other civil rights laws may be directed to the Superintendent/Designee at 480 W. 580 N. Crawfordsville, IN, or by telephone at 765-359-2112.

42 credits are required to graduate from North Montgomery High School *

*except in cases as required by a student's Individualized Education Plan (IEP)

Credit: a credit is the value recorded for a trimester of high school work successfully completed.

***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 trimester in all courses required for graduation will not receive a diploma and will not participate in graduation exercises. There are no exceptions.

If desired, many students can complete their coursework at the end of second trimester of the senior year (2nd trimester grad). Availability of this option will depend on credits earned, graduation requirements, and class sizes. Should a student wish to complete coursework sooner than the end of second trimester of the senior year, he/she needs to make a request to the school counselor when scheduling junior year classes. Requests made after that time may not be honored.

This guide is intended to provide information on anticipated course offerings for the 2018-2019 school year. Circumstances arise that may require adjustment; therefore we cannot guarantee the availability of each specific course. Students may also have the opportunity to enroll in online courses with counselor approval.

Scheduling Information

Educational planning starts with the selection of courses in the spring of the 8th grade year. North Montgomery High School counselors will distribute information and guide students in course selection. All students and their parents should review the information in this booklet so that the courses selected reflect a plan that will give the student a solid foundation for post-secondary career options. **Courses listed in this guide may not be offered every year depending on student interest, teacher availability, graduation requirements, and administrative decisions.**

Course Scheduling

North Montgomery High School is committed to helping all students schedule courses so that they have every opportunity to take advantage of academic options. Students and parents are encouraged to review all information concerning course selection in a timely fashion so that the best decisions may be made. Counselors and teachers are the best sources of information concerning various classes and academic options. Students and parents should take advantage of this resource in making decisions. Students will receive initial information about course selection between January and March of each year.

Course Schedule Changes

Due to the tremendously complicated process of scheduling the large number of students in our school, changes can rarely be made for specific teachers, lunch periods, or changes of mind. Counselors may be authorized to change schedules in the following instances: to balance class counts, correct data processing errors, to make up a failure, to meet credit requirements, to meet requirements of a particular college program (seniors), to add a class in place of an 'out' if the addition does not overload the class count (seniors), obvious placement error (i.e. math program too difficult), and conflict in a schedule. Withdrawal from a class may result in a WF (withdrawal failure) or W (withdrawal) on the student's permanent transcript. **Classes dropped after 3 days into the trimester will result in a WF.**

Scheduling Timeline

January-February 2018: Counselors will be conducting classroom presentations and will be meeting with students to discuss scheduling options. Information will be given to students and should be brought home to share with parents. A parent signature is highly recommended and may be required for students to take certain classes.

February 15th 2018: Last day for students to request a change to their course planners. Course offering decisions are made based on student choices for classes as of February 15th. Requests for changes between February 15th and May 14th will be honored only if seats are available in a class.

April (date TBD) 2018: Student schedules will be distributed. Students can request changes to their schedules, but will only be accommodated if seats are available in the class(es) requested.

May 14th 2018: Last day for students to request schedule changes of any kind, and can only be honored if class size permits.

Counselors will adjust schedules in **June** for academic purposes, such as the failure of a class required for graduation. Language Arts Lab and Math Lab support class placements (for ISTEP remediation) will also be finalized and placed into schedules, as appropriate.

Dual Credit Opportunities

In order to receive college credit, students must meet criteria set forth by the individual college/university, apply by the deadline, and pay any applicable fees. If students do not meet the testing criteria for college credit or do not want to pay the fee for college credit, they may remain in the class for high school credit only. This chart reflects classes that have been offered in the past. We cannot guarantee that they will be offered every year.

NMHS Course	College Course	Critical Reading Score Required	Writing Score Required	Math Score Required	Cost *
English 12, Honors	Ivy Tech ENGL 111	Yes*	Yes*	No	Free
Precalculus, Hon	Ivy Tech MA 136	No	No	Yes	Free
Trigonometry, Hon	Ivy Tech MA 137	No	No	Yes	Free
Chemistry II	Indiana University CHEM 101 CHEM 121	2.70 GPA requirement only			\$125^ (5 cr hr class)
ACP Calculus	Indiana University MATH- M 211	2.70 GPA requirement only			\$100^ (4 cr hr class)
Animal Science	Ivy Tech AGRI 103	Test Scores Not Required			Free
Agribusiness Management	Ivy Tech AGRI 102	Test Scores Not Required			Free
Horticulture Science	Ivy Tech AGRI 116	Test Scores Not Required			Free
Agriculture Power, Structure, and Technology	Ivy Tech AGRI 106	Test Scores Not Required			Free
Landscape Management	Ivy Tech AGRI 164	Test Scores Not Required			Free
Advanced Life Science, Animals	Ivy Tech AGRI 107	Test Scores Not Required			Free
Early Child Education	Ivy Tech ECED 100 ECED 103	Yes*	Yes*	No	Free
Spanish III	Ivy Tech SPAN 101 SPAN 102	Yes	Yes	No	
Introduction to Engineering (IED)	Ivy Tech DESN 101	Test Scores Not Required			Free
Principles of Engineering (POE)	Ivy Tech DESN 104	Test Scores Not Required			Free

Advanced Manufacturing I	Ivy Tech ADMF 101	Test Scores Not Required			Free
Advanced Manufacturing II	Ivy Tech ADMF 102	Test Scores Not Required			Free
Automotive Technology I	Ivy Tech AUTI 100 AUTI 121	Test Scores Not Required			Free
Automotive Technology II	Ivy Tech AUTI 111 AUTI 141	Prerequisite of AUTI 100			Free
Construction Technology: HVAC I	Ivy Tech HVAC 101 HVAC 103	Test Scores Not Required			Free
Construction Technology: HVAC II	Ivy Tech HVAC 107	Test Scores Not Required			Free
Cosmetology I & II	Vincennes University COSMO 100 COSMO 150 COSMO 200 COSMO 250	Yes	No	No	
Criminal Justice I	Ivy Tech CRIM 101 CRIM 105	Yes*	Yes*	No	Free
Criminal Justice II	Ivy Tech CRIM 111 CRIM 113	Prerequisite of CRIM 101			Free
Fire and Rescue I	Ivy Tech Indianapolis HSPS 106 HSPS 121 HSPS 165 HSPS 167	Test Scores Not Required			Free
Fire and Rescue II	Ivy Tech Indianapolis PARM 102	Test Scores Not Required			Free
Health Science Education I	Ivy Tech HLHS 100	Test Scores Not Required			Free
Medical Terminology	Ivy Tech HLHS 101	Yes*	Yes*	No	
Ivy Tech Business Administration Technical Certificate Year 1	Ivy Tech BUSN 101 ENGL 111 MKTG 101 PSYC 101 BOAT 207 BUSN 105	Yes*	Yes*	No	Students pay for books

	IVYT 114				
Ivy Tech Business Administration Technical Certificate Year 1	Ivy Tech BUSN 120 BUSN 207 BOAT 216 BUSN 208 BUSN 201 ECON 201	Yes*	Yes*	No	Students pay for books
Precision Machining I	Vincennes University Credits TBD (new program)				
Radio and Television I	Vincennes University MCOM 102 BCST 140	Yes	Yes	No	
Welding Technology I	Ivy Tech WELD 100 WELD 108 WELD 206	Test Scores Not Required			Free
Welding Technology II	Ivy Tech WELD 109 WELD 207 WELD 208	Test Scores Not Required			Free

* = Students in their senior year with a GPA of 2.6 or higher are exempt from test score requirements in areas designated with a *.

^= Students on free/reduced lunch do not pay ACP fees.

Graduation Requirements as fulfilled by
North Montgomery High School
Class of 2019-2022

Curriculum Area	Core 40	Core 40 with Academic Honors	Core 40 with Technical Honors
English	8 credits	8 credits	8 credits
Math	6 credits (in grades 9-12) <ul style="list-style-type: none"> ▪ 2 credits Algebra I ▪ 2 credits Geometry ▪ 2 credits Algebra II <p>In addition, all students must be enrolled in a Mathematics course OR a Quantitative Reasoning course each year they are in high school.</p>	8 credits (6 credits taken in grades 9-12) <ul style="list-style-type: none"> ▪ 2 credits Algebra I ▪ 2 credits Geometry ▪ 2 credits Algebra II ▪ 2 additional credits in core 40 math courses <p>In addition, all students must be enrolled in a Mathematics course OR a Quantitative Reasoning course each year they are in high school.</p>	6 credits (6 credits taken in grades 9-12) <ul style="list-style-type: none"> ▪ 2 credits Algebra I ▪ 2 credits Geometry ▪ 2 credits Algebra II <p>In addition, all students must be enrolled in a Mathematics course OR a Quantitative Reasoning course each year they are in high school.</p>
Science	6 credits <ul style="list-style-type: none"> ▪ 2 credits Biology I ▪ 2 credits Chemistry I or Integrated Chemistry-Physics ▪ 2 credits any additional Core 40 science course 	6 credits <ul style="list-style-type: none"> ▪ 2 credits Biology I ▪ 2 credits Chemistry I or Integrated Chemistry-Physics ▪ 2 credits any additional Core 40 science course 	6 credits <ul style="list-style-type: none"> ▪ 2 credits Biology I ▪ 2 credits Chemistry I or Integrated Chemistry-Physics ▪ 2 credits any additional Core 40 science course
Social Studies	6 credits <ul style="list-style-type: none"> ▪ 2 credits Geography & History of the World ▪ 2 credits US History ▪ 1 credit US Government ▪ 1 credit Economics 	6 credits <ul style="list-style-type: none"> ▪ 2 credits Geography & History of the World ▪ 2 credits US History ▪ 1 credit US Government ▪ 1 credit Economics 	6 credits <ul style="list-style-type: none"> ▪ 2 credits Geography & History of the World ▪ 2 credits US History ▪ 1 credit US Government ▪ 1 credit Economics
PE	2 credits	2 credits	2 credits
Health	1 credit	1 credit	1 credit
World Language	Recommended	6-8 Core 40 world language credits (6 credits from one World Language <u>OR</u> 4 credits from each of two different World Languages)	Recommended

Fine Arts		2 Credits	
Career-Technical			Related sequence of 8-10 Career-Technical credits
Electives (directed electives and career academic sequence)	13 Credits (combination of directed electives and career academic sequence)	Elective credits will vary depending on how “additional requirements” (below) are fulfilled	Elective credits will vary depending on how “additional requirements” (below) are fulfilled
Additional Requirements		<p>Complete one of the following:</p> <ol style="list-style-type: none"> Earn 4 credits in 2 or more AP courses and take corresponding AP exams Earn 6 verifiable transcribed college credits in dual credit courses from priority course list. Complete a combination of AP courses (2 credits) and corresponding AP exams and a minimum of 3 verifiable transcribed college credits from the priority list. Earn a combined scores of 1250 or higher on the SAT with a minimum score of 560 on the Math and EBRW sections. Earn an ACT composite score of 26 or higher and complete written section. 	<ul style="list-style-type: none"> ▪ Earn 6 credits in the college and career preparation courses in a state-approved College and Career Pathway and one of the following: <ol style="list-style-type: none"> Pathway designated industry-based certification or credential. Pathway dual credits from the lists of priority courses resulting in 6 transcribed college credits. ▪ Complete one of the following: <ol style="list-style-type: none"> Any one of the options (1-5) of the Core 40 with Academic Honors Earn the following WorkKeys scores: Reading for Information 6, Applied Mathematics 6, Locating Information 5 Earn the following Accuplacer scores: Writing 80, Reading 90, Math 75. Earn the following Compass scores: Writing 70, Reading 80, Algebra 66
GPA Requirements		No individual grades below a “C-” and overall GPA of 3.00 or higher	No individual grades below a “C-” and overall GPA of 3.00 or higher
Total Credits	42 Credits*	47 Credits	47 Credits

*except as required by a student’s Individualized Education Plan (IEP)

General Diploma

For students not able to meet the requirements of a Core 40 Diploma, the General Diploma may be considered. The General Diploma is NOT appropriate for a student planning to pursue 4 year college.

The completion of Core 40 is an Indiana graduation requirement. Indiana's Core 40 curriculum provides the academic foundation all students need to succeed in college and the workforce.

To graduate with less than Core 40, a formal opt-out process must be completed and involves the student, parent, and school counselor.

Course and Credit Requirements

English/Language Arts	8 credits
	English 9, 10, 11, 12
Mathematics	4 credits
	2 credits: Algebra I 2 credits: Any math course General diploma students are required to earn 2 credits in a Math or a Quantitative Reasoning (QR) course during their junior or senior year. QR courses do not count as math credits.
Science	4 credits
	2 credits: Biology I 2 credits: Any science course At least one credit must be from a Physical Science or Earth and Space Science course
Social Studies	4 credits
	2 credits: U.S. History 1 credit: U.S. Government 1 credit: Any Social Studies credit
Physical Education	2 credits
Health and Wellness	1 credit
College and Career Pathway Courses Selecting electives in a deliberate manner to take full advantage of college and career exploration and preparation opportunities	6 credits
Flex Credit	5 credits
	Flex Credits must come from one of the following: <ul style="list-style-type: none"> • Additional elective courses in a College and Career Pathway • Courses involving workplace learning such as Cooperative Education or Internship courses • High school/college dual credit courses • Additional courses in Language Arts, Social Studies, Mathematics, Science, World Languages or Fine Arts
Electives	8 credits
	Specifies the minimum number of electives required by the state. High school schedules provide time for many more elective credits during the high school years.

42 Total Credits Required at NMHS*

*except as required by a student's Individualized Education Plan (IEP)

Quantitative Reasoning Courses

A quantitative reasoning course is a high school course that advances a student's ability to apply mathematics in real world situations and contexts and that deepens a student's understanding of high school mathematics standards. The Indiana Department of Education will provide an annual review to determine the high school courses that meet these criteria.

- For the Core 40, Academic Honors, and Technical Honors diplomas, students must take a mathematics course or a quantitative reasoning course each year they are enrolled in high school.
- For the General Diploma, students must earn two credits in a mathematics course or a quantitative reasoning course during their junior or senior year.

The following courses satisfy the Mathematics or Quantitative Reasoning requirement and have been offered at NMHS in the past.

Agriculture

Agribusiness Management
Landscape Management
Advanced Life Science, Animals

Business

Personal Financial Responsibility
Computer Science I

Economics

AP Macroeconomics
Economics

Engineering and Technology

Principles of Engineering

Trade and Industrial

Construction Trades: HVAC II
Advanced Manufacturing II
Precision Machining I

Social Studies

Economics
AP Macroeconomics

Science

Chemistry I
Chemistry II
AP Physics
Integrated Chemistry/Physics (ICP)

Mathematics

Business Math
Algebra I
Algebra II
Geometry
Pre-Calculus
Trigonometry
Probability and Statistics
Finite Mathematics
AP Calculus

Weighted Grades Tier Classification

This chart represents current courses and is subject to change.

Tier 1 Classes: No Additional Weight	Tier 2 Classes: Additional Weight: +0.5	Tier 3 Classes: All AP Offerings Additional Weight: +1
All diploma track courses not listed as Tier 2 or Tier 3.	Honors English 9 Honors English 10 Honors English 12 Honors Algebra I Honors Algebra 2 Honors Geometry Precalculus Honors Trigonometry Honors Honors Biology I Honors Chemistry I Spanish III Spanish IV French III French IV PLTW MI PLTW BI Chem II (ACP)	AP Literature and Composition AP Calculus AB AP Calculus BC AP Human Geography AP US History AP Macroeconomics AP Physics I AP Physics II AP Music Theory

Latin Recognition

North Montgomery High School will recognize outstanding academic performance through a Latin system of honor. The following honors will be designated after the final trimester of the senior year. The GPA levels below represent criteria for the graduating classes of 2019-2020 and are subject to reevaluation.

Suma Cum Laude- “with highest distinction”

- 4.2+ weighted GPA
- Academic or Technical Honors Diploma
- Complete 8 Tier 2 or 3 courses

Magna Cum Laude- “with great distinction”

- 4.1+ weighted GPA
- Academic or Technical Honors Diploma
- Complete 6 Tier 2 or 3 courses

Cum Laude- “with distinction”

- 4.0+ weighted GPA
- Academic or Technical Honors Diploma
- Complete 4 Tier 2 or 3 courses

All students meeting these criteria will be recognized at graduation. The class of 2020 will be the final class in which a valedictorian and salutatorian will be recognized. The cum laude system will give students the incentive to take rigorous coursework while giving them options to explore their unique areas of interest throughout high school without concern about the impact of class rank. We believe this is the best way to prepare students for life beyond high school.

Weighted Grades and Latin Recognition Phase-In Timeline

	Grade 9 (Class of 2022)	Grade 10 (Class of 2021)	Grade 11 (Class of 2020)	Grade 12 (Class of 2019)
Designate Class Rank	No	No	Yes, both a weighted and unweighted rank will be reported on transcripts.	Yes, both a weighted and unweighted rank will be reported on transcripts.
Valedictorian and Salutatorian Identified	No	No	Yes, using unweighted GPA to make it consistent with what students have been expecting.	Yes, using unweighted GPA to make it consistent with what students have been expecting.
Cum Laude Honors Recognized	Yes, using weighted GPA.	Yes, using weighted GPA.	Yes, using weighted GPA.	Yes, using weighted GPA.
Will weighted calculation include courses taken in prior years?	N/A* *Students that completed Honors Algebra in Grade 8 will receive added weight.	Yes	Yes, but Valedictorian and Salutatorian will still be determined using unweighted rank/GPA.	Yes, but Valedictorian and Salutatorian will still be determined using unweighted rank/GPA.
College and Scholarship Reporting	Report weighted GPA only. No Rank Reported.	Report weighted GPA only. No Rank Reported.	Counselors will report weighted GPA and weighted rank for college applications and scholarships.	Counselors will report weighted GPA and weighted rank for college applications and scholarships.

CTE: AGRICULTURE

ADVANCED LIFE SCIENCE, ANIMALS

GRADES 11-12, 2 TRIMESTERS

DUAL COLLEGE CREDIT: IVY TECH

5070

Advanced Life Science: Animals provides students with opportunities 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, as well as historical and current issues in animal agriculture in the area of advanced life science in animals.

- Recommended Prerequisites: Biology and Chemistry due to course content standards
- Fulfills a Core 40 Life Science requirement for all diplomas or counts as an Elective or Directed Elective for any diploma

AGRIBUSINESS MANAGEMENT

GRADES 11-12, 2 TRIMESTERS

DUAL COLLEGE CREDIT: IVY TECH

5002

Agribusiness Management provides foundational concepts in agribusiness. This course introduces students to the principles of business organization and management from a local and global perspective while incorporating technology. Concepts covered in the course include food and fiber, forms of business, finance, marketing, management, sales, leadership development, supervised agricultural experience career opportunities in the area of agribusiness management.

- Counts as a Directed Elective or Elective for all diplomas.

AGRICULTURE POWER, STRUCTURE & TECHNOLOGY

GRADES 10-12, 2 TRIMESTERS

DUAL COLLEGE CREDIT: IVY TECH

5088

Agriculture Power, Structure and Technology is a lab intensive course in which students develop an understanding of basic principles of selection, operation, maintenance and management of agricultural equipment in concert while incorporating technology. Topics covered include: safety, electricity, plumbing, concrete, carpentry, metal technology, engines, emerging technologies, leadership development, supervised agricultural experience and career opportunities in the area of agriculture power, structure and technology.

- Counts as a Directed Elective for all diplomas

ANIMAL SCIENCE

GRADES 10-12, 2 TRIMESTERS

DUAL COLLEGE CREDIT: IVY TECH

5008

Animal Science provides students with an overview of the animal science field. Students participate in a large variety of activities and laboratory work including real and simulated animal science experiences and projects. All areas that the students study can be applied to both large and small animals. Topics to be addressed include: anatomy and physiology, genetics, reproduction, nutrition, common diseases and parasites, social and 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.

- Fulfills a Directed Elective or Elective for all diplomas

HORTICULTURAL SCIENCE **GRADES 10-12, 2 TRIMESTERS**
DUAL COLLEGE CREDIT: IVY TECH

5132

Horticulture Science is designed to give students a background in the field of horticulture and its many career opportunities. It addresses the biology and technology involved in the production, processing and marketing of plants and its products. Topics covered include: reproduction and propagation of plants, plant growth, growth media, management practices for field and greenhouse production, marketing concepts, production of plants of local interest and pest management. Students participate in a variety of activities to include extensive laboratory work usually in a school greenhouse, leadership development, supervised agricultural experience and learning about career opportunities in the area of horticulture science.

- Counts as a Directed Elective or Elective for all diplomas.

INTRO TO AG, FOOD & NATURAL RESOURCES **GRADES 9-10, 2 TRIMESTERS**

5056

Introduction to Agriculture, Food and Natural Resources is a two trimester course that is highly recommended as a prerequisite to and a foundation for all other agricultural classes. The nature of this course is to provide students with an introduction to the fundamentals of agricultural science and business. Topics to be covered include: animal science, plant and soil science, food science, horticultural science, agricultural business management, landscape management, natural resources, agriculture power, structure and technology, leadership development, supervised agricultural experience and career opportunities in the area of agriculture, food and natural resources.

- Counts as a Directed Elective or Elective for all diplomas

LANDSCAPE MANAGEMENT I **GRADES 10-12, 2 TRIMESTERS**
DUAL COLLEGE CREDIT: IVY TECH

5136

Landscape Management I is a two trimester course that provides the student with an overview of the many career opportunities in the diverse field of landscape management. Students are introduced to the procedures used in the planning and design of a landscape using current technology practices, the principles and procedures of landscape construction, the determination of maintenance schedules, communications and management skills necessary in landscape operations and the care and use of equipment utilized by landscapers. Students will also participate in leadership development, supervised agricultural experience and career exploration activities in the area of landscape management. Upon completion of the program, students have the opportunity to become Indiana Landscape Industry Certified through a state approved program.

- Counts as a Directed Elective or Elective for all diplomas.

SUPERVISED AGRICULTURAL EXPERIENCE **GRADES 9-12, ONE CREDIT, SUMMER**

5228

Supervised Agricultural Experience (SAE) is designed to provide students with opportunities to gain experience in the agriculture field(s) in which they are interested. Students should experience and apply what is learned in the classroom, laboratory, and training site to real-life situations. Students work closely with their agricultural science and business teacher(s),

parents, and/or employers to get the most out of their SAE program. This course can be offered each year as well as during the summer session.

- Counts as a Directed Elective or Elective for all diplomas.

CTE: BUSINESS, MARKETING AND INFORMATION TECHNOLOGY

BUSINESS LAW AND ETHICS

GRADES 11-12, 1 TRIMESTER

4560

Business Law and Ethics provides an overview of the legal system in the business setting. Topics covered include: basics of the judicial system, contract, personal, employment and property law. Application of legal principles and ethical decision-making techniques are presented through problem-solving methods and situation analyses.

- Counts as a Directed Elective or Elective for all diplomas

COMPUTER SCIENCE I

GRADES 10-12, 2 TRIMESTERS

4801

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

- Recommended Prerequisite: Introduction to Computer Science
- Counts as a Directed Elective or Elective for all diplomas

COMPUTER TECH SUPPORT

GRADES 10-12, 1 TRIMESTER

5230

Computer Tech Support allows students to explore how computers work. Students learn the functionality of hardware and software components as well as suggested best practices in maintenance and safety issues. Through hands on activities and labs, students learn how to assemble and configure a computer, install operating systems and software, and troubleshoot hardware and software problems.

- Counts as a Directed Elective or Elective for all diplomas.
- Students will be a part of the Student Tech Team and must submit an application for this course.

DIGITAL APPLICATIONS AND RESPONSIBILITY

GRADES 9-10, 1 TRIMESTER

4528

Digital Applications and Responsibility prepares students to use technology in an effective and appropriate manner in school, in a job, or everyday life. Students develop skills related to word

processing, spreadsheets, presentations, and communications software. Students learn what it means to be a good digital citizen and how to use technology, including social media, responsibly. Students expand their knowledge of how to use digital devices and software to build decision-making and problem-solving skills.

- Counts as a Directed Elective or Elective for all diplomas

INTRODUCTION TO ACCOUNTING

GRADES 10-12, 2 TRIMESTERS

4524

Intro to Accounting 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.

- Counts as a Directed Elective or Elective for all diplomas.

INTRODUCTION TO BUSINESS

GRADES 9-12, 2 TRIMESTERS

4518

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

- Recommended Prerequisites: None
- Counts as a Directed Elective or Elective for all diplomas.

INTRODUCTION COMPUTER SCIENCE

GRADES 9-12, 1 TRIMESTER

4803

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

- Recommended Prerequisites: Successful completion of Algebra
- Counts as a Directed Elective or Elective for all diplomas.

PRINCIPLES OF BUSINESS MANAGEMENT

GRADE 11-12, 2 TRIMESTERS

4562

Principles of Business Management focuses on the roles and responsibilities of managers as well as opportunities and challenges of ethically managing a business in the free enterprise system. Students will attain an understanding of management, team building, leadership, problem solving steps and processes that contribute to the achievement of organizational goals. The management of human and financial resources is emphasized.

- Recommended Prerequisites: Introduction to Business
- Counts as a Directed Elective or Elective for all diplomas.

SPORTS AND ENTERTAINMENT MARKETING

GRADE 11-12, 1 TRIMESTER

5984

Sports and Entertainment Marketing is a specialized marketing course that develops student understanding of the sport/event industries, their economic impact, and products; distribution

systems and strategies; pricing considerations; product/service management, and promotion. Students acquire an understanding and appreciation for planning. Throughout the course, students are presented problem-solving situations for which they must apply academic and critical-thinking skills. Participation in cooperative education is an optional instructional method, giving students the opportunity to apply newly acquired marketing skills in the workplace.

- Recommended Prerequisites: Intro to Business
- Counts as a Directed Elective or Elective for all diplomas.

WEB DESIGN

GRADE 10-12, 1 TRIMESTER

4574

Web Design is a business course that provides instruction in the principles of web design using HTML/XHTML and current/emerging software programs. Areas of instruction include audience analysis, hierarchy layout and design techniques, software integration, and publishing. Instructional strategies should include peer teaching, collaborative instruction, project-based learning activities, and school and community projects.

- Counts as a Directed Elective or Elective for all diplomas.

CTE: ENGINEERING/TECHNOLOGY

INTRO TO ADV MANUFACTURING & LOGISTICS

GRADES 10-12, 2 TRIMESTERS

DUAL COLLEGE CREDIT: IVY TECH

4796

Introduction to Advanced Manufacturing and Logistics is a course that specializes in how people use modern manufacturing systems with an introduction to advanced manufacturing and logistics and their relationship to society, individuals, and the environment. Students apply the skills and knowledge of using modern manufacturing processes to obtain resources and change them into industrial materials, industrial products and consumer products. Students investigate the properties of engineered materials such as: metallics; polymers; ceramics; and composites. Students study six major types of material processes: casting and molding; forming; separating; conditioning; finishing; and assembling. After gaining a working knowledge of these materials, Students are introduced to advanced manufacturing, logistics, and business principles that are utilized in today's advanced manufacturing industry. Students gain a basic understanding of tooling, electrical skills, operation skills, inventory principles, MSDS's, chart and graph reading and MSSC concepts. There is also an emphasis placed on the flow process principles, material movement, safety, and related business operations. Students have the opportunity to develop the characteristics employers seek as well as skills that will help them in future endeavors.

- Counts as a Directed Elective or Elective for all diplomas.

INTRODUCTION TO COMMUNICATIONS

GRADES 10-12, 1 TRIMESTER

4790

Introduction to Communications is a course that specializes in identifying and using modern communication to exchange messages and information. This course explores the application of the tools, materials, and techniques used to design, produce, use, and asses systems of communication. Students will produce graphic and electronic media as they apply communication technologies. This course will also explore the various technical processes used to link ideas and people through the use of electronic and graphic media. Major goals of this

course include an overview of communication technology; the way it has evolved, how messages are designed and produced, and how people may profit from creating information services and products. Students will explore mass media communication processes including radio and television broadcasting, publishing and printing activities, telecommunication networks, recording services, computer and data processing networks, and other related systems. Using the base knowledge student will use the design process to solve design projects in each communication area.

- Counts as a Directed Elective or Elective for all diplomas.

INTRODUCTION TO CONSTRUCTION

GRADES 10-12, 1 TRIMESTER

4792

Introduction to Construction is a course that will offer hands-on activities and real world experiences related to the skills essential in residential, commercial and civil building construction. During the course students will be introduced to the history and traditions of construction trades. The student will also learn and apply knowledge of the care and safe use of hand and power tools as related to each trade. In addition, students are introduced to blueprint reading, applied math, basic tools and equipment, and safety. Students will demonstrate building construction techniques, including concrete and masonry, framing, electrical, plumbing, dry walling, HVAC, and painting as developed locally in accordance with available space and technologies. Students learn how architectural ideas are converted into projects and how projects are managed during a construction project in this course. Students study construction technology topics such as preparing a site, doing earthwork, setting footings and foundations, building the superstructure, enclosing the structure, installing systems, finishing the structure, and completing the site. Students also investigate topics related to the purchasing and maintenance of structures, special purpose facilities, green construction and construction careers.

- Counts as a Directed Elective or Elective for all diplomas.

INTRODUCTION TO ENGINEERING DESIGN PLTW

GRADES 9-12, 2 TRIMESTERS

DUAL COLLEGE CREDIT: IVY TECH

4812

Introduction to Engineering Design is a fundamental pre-engineering course where students become familiar with the engineering design process. Students work both individually and in teams to design solutions to a variety of problems using industry standard sketches and current 3D design and modeling software to represent and communicate solutions. Students apply their knowledge through hands-on projects and document their work with the use of an engineering notebook. Students advance from completing structured activities to solving open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. Ethical issues related to professional practice and product development are also presented.

- Counts as a Directed Elective or Elective for all diplomas.

INTRODUCTION TO MANUFACTURING

GRADES 9-12, 1 TRIMESTER

4784

Introduction to Manufacturing is a course that specializes in how people use modern manufacturing systems with an introduction to manufacturing technology and its relationship to society, individuals, and the environment. An understanding of manufacturing provides a background toward developing engineering & technological literacy. This understanding is developed through the study of the two major technologies, material processing and management technology, used by all manufacturing enterprises. Students will apply the skills and knowledge of using modern manufacturing processes to obtain resources and change them

into industrial materials, industrial products and consumer products. Students will investigate the properties of engineered materials such as: metallics; polymers; ceramics; and composites. After gaining a working knowledge of these materials, students will study six major types of material processes: casting and molding; forming; separating; conditioning; finishing; and assembling.

- Counts as a Directed Elective or Elective for all diplomas.

INTRODUCTION TO TRANSPORTATION

GRADES 9-12, 1 TRIMESTER

4798

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

- Counts as a Directed Elective or Elective for all diplomas.

PRINCIPLES OF ENGINEERING PLTW

GRADES 10-12, 2 TRIMESTERS

DUAL COLLEGE CREDIT: IVY TECH

4814

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

- Recommended Prerequisites: Introduction to Engineering Design
- Counts as a Directed Elective or Elective for all diplomas.

CTE: FAMILY & CONSUMER SCIENCES

ADV CHILD DEVELOPMENT

GRADES 10-12, 1 TRIMESTER

5360

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

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

- Recommended Prerequisites: Child Development
- Counts as a Directed Elective or Elective for all diplomas.

ADVANCED NUTRITION AND WELLNESS

GRADES 10-12, 1 TRIMESTER

5340

Advanced Nutrition and Wellness is a course which provides an extensive study of nutrition. This course is recommended for all students wanting to improve their nutrition and learn how nutrition affects the body across the lifespan. *Advanced Nutrition and Wellness* is an especially appropriate course for students interested in careers in the medical field, athletic training and dietetics. This course builds on the foundation established in *Nutrition and Wellness*, which is a required prerequisite. This is a project-based course; utilizing higher-order thinking, communication, leadership and management processes. Topics include extensive study of major nutrients, nutritional standards across the lifespan, influences on nutrition/food choices, technological and scientific influences, and career exploration in this field. Laboratory experiences will be utilized to develop food handling and preparation skills; attention will be given to nutrition, food safety and sanitation. This course is the second in a sequence of courses that provide a foundation for continuing and post-secondary education in all career areas related to nutrition, food, and wellness.

- Recommended Prerequisites: Introduction to Culinary Arts and Hospitality
- Counts as a Directed Elective or Elective for all diplomas.

CHILD DEVELOPMENT

GRADES 10-12, 1 TRIMESTER

5362

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

- Counts as a Directed Elective or Elective for all diplomas

CULINARY ARTS AND HOSPITALITY I

GRADES 11-12, 2 TRIMESTERS

5440

Culinary Arts and Hospitality I prepares students for occupations and higher education programs of study related to the entire spectrum of careers in the hospitality industry. This course builds a foundation that prepares students to enter the Advanced Culinary Arts or Advanced Hospitality courses. Major topics include: introduction to the hospitality industry; food safety and personal hygiene; sanitation and safety; regulations, procedures, and emergencies; basic culinary skills; culinary math; and food preparation techniques and applications; principles of purchasing, storage, preparation, and service of food and food products; apply basic principles of sanitation and safety in order to maintain safe and healthy food service and hospitality environments; use and maintain related tools and equipment; and apply management principles in food service or hospitality operations. Intensive laboratory experiences with commercial applications are a required component of this course of study. Student laboratory experiences may be either school-based or "on-the-job" or a combination of the two. Work-based experiences in the food industry are strongly encouraged. A standards-based plan guides the students' laboratory experiences. Students are monitored in their laboratory experiences by the Culinary Arts and Hospitality teacher.

- Recommended Prerequisites: Introduction to Culinary Arts & Hospitality
- Counts as a Directed Elective or Elective for all diplomas .

EARLY CHILDHOOD EDUCATION I

GRADES 11-12, 3 TRIMESTERS (6 HS CREDITS)

DUAL COLLEGE CREDIT: IVY TECH

5412

Early Childhood Education prepares students for employment in early childhood education and related careers that involve working with children from birth to 8 years (3rd grade) and provides the foundations for study in higher education that leads to early childhood education and other child-related careers. A project-based approach that utilizes higher order thinking, communication, leadership, and management processes is recommended in order to integrate the study of suggested topics. Major course topics include: career paths in early childhood education; promoting child development and learning; building family and community relationships; observing, documenting, and assessing to support young children and families; using developmentally effective approaches; using content knowledge to build meaningful curriculum, and becoming an early childhood education professional. The course provides an overview of the history, theory, and foundations of early childhood education as well as exposure to types of programs, curricula, and services available to young children. Students examine basic principles of child development, importance of family, licensing, and elements of quality care of young children. The course addresses planning and guiding developmentally appropriate activities for young children in various childcare settings; developmentally appropriate practices of guidance and discipline; application of basic health, safety, and nutrition principles when working with children; overview of management and operation of licensed child care facilities or educational settings; child care regulations and licensing requirements; and employability skills. Intensive experiences in one or more early childhood settings, resumes, and career portfolios are required components. A standards-based plan for each student guides the laboratory/field experiences. Students are monitored in their laboratory/field experiences by the Early Childhood Education teacher. Student laboratory/field experiences may be either school-based or "on-the-job" in community-based early childhood education centers or in a combination of the two. Dual credit agreements with postsecondary programs are encouraged.

- Recommended Prerequisites: Child Development and Advanced Child Development
- Counts as a Directed Elective or Elective for all diplomas
- **This is a yearlong course and must be taken all three trimesters.**

- **Students are responsible for their own daily transportation to Pleasant Hill Elementary School.**

EARLY CHILDHOOD EDUCATION II

GRADE 12, 3 TRIMESTERS (3-6 CREDITS)

5406

Early Childhood Education II prepares students for employment in early childhood education and related careers that involve working with children from birth to 8 years (3rd grade) and provides the foundations for study in higher education that leads to early childhood education and other child-related careers. ECE II is a sequential course that builds on the foundational knowledge and skills of Early Childhood Education I, which is a required prerequisite. In ECE II students further refine, develop, and document the knowledge, skills, attitudes, and behaviors gained in the foundational course. Major topics of ECE II include: overview of the Child Development Associate (CDA) credential, safe and healthy learning environment, physical and intellectual competence, social and emotional development, relationships with families, program management, and professionalism. The course standards parallel the expectations and documentation required for Child Development Associate (CDA) credentialing. These include rigorous levels of self-critique and reflection; performance assessments by instructors, parents, and other professionals; comprehensive assessment of knowledge through a standardized exam; and other professional documentation. Extensive experiences in one or more early childhood education settings are required: a minimum total of 480 hours must be accrued in ECE I and ECE II. These experiences may be either school-based or "on-the-job" in community-based early childhood education centers, or in a combination of the two. A standards-based plan for each student guides the early childhood education experiences. Students are monitored in these experiences by the Early Childhood Education II teacher.

- Required Prerequisites: Early Childhood Education I
- Counts as a Directed Elective or Elective for all diplomas
- **This is a yearlong course and must be taken all three trimesters.**
- **Students are responsible for their own daily transportation to Pleasant Hill Elementary School.**

INTERPERSONAL RELATIONSHIPS

GRADES 10-12, 1 TRIMESTER

5364

Interpersonal Relationships is an introductory course that is especially relevant for students interested in careers that involve interacting with people. It is also valuable for all students as a life foundation and academic enrichment. This course addresses knowledge and skills needed for positive and productive relationships in career, community, and family settings. Major course topics include communication skills; leadership, teamwork, and collaboration; conflict prevention, resolution, and management; building and maintaining relationships; and individual needs and characteristics and their impacts on relationships. A project-based approach that utilizes higher order thinking, communication, leadership, and management processes, and fundamentals to college and career success is recommended in order to integrate these topics into the study of interpersonal relationships. Direct, concrete language arts proficiencies will be applied. Service learning and other authentic applications are strongly recommended. This course provides a foundation for continuing and post-secondary education for all career areas that involve interacting with people both inside and outside of a business/organization, including team members, clients, patients, customers, and the general public.

- Counts as a Directed Elective or Elective for all diplomas.

INTRODUCTION TO CULINARY ARTS AND HOSPITALITY GRADES 9-12, 1 TRIMESTER

5438

Introduction to Culinary Arts and Hospitality is recommended for all students regardless of their career cluster or pathway, in order to build basic culinary arts knowledge and skills. It is especially appropriate for students with an interest in careers related to Hospitality, Tourism, and Culinary Arts. A project-based approach that utilizes higher order thinking, communication, leadership, and management processes is recommended. Topics include basic culinary skills in the foodservice industry, safety and sanitation, nutrition, customer relations and career investigation. Students are able to explore this industry and examine their own career goals in light of their findings. Laboratory experiences that emphasize industry practices and develop basic skills are required components of this course.

- Counts as a Directed Elective or Elective for all diplomas.

INTRODUCTION TO FASHION AND TEXTILES GRADES 9-12, 1 TRIMESTER

5380

Introduction to Fashion and Textiles is an introductory course for those students interested in academic enrichment or a career in the fashion, textile, and apparel industry. This course addresses knowledge and skills related to design, production, acquisition, and distribution in the fashion, textile, and apparel arena. The course includes the study of personal, academic, and career success; careers in the fashion, textile, and apparel industry; factors influencing the merchandising and selection of fashion, textile, and apparel goods and their properties, design, and production; and consumer skills. A project-based approach integrates instruction and laboratory experiences including application of the elements and principles of design; selection, production, alteration, repair, and maintenance of apparel and textile products; product research, development, and testing; and application of technical tools and equipment utilized in the industry. Visual arts concepts will be addressed. Direct, concrete mathematics proficiencies will be applied. Service learning and other authentic applications are strongly recommended. This course provides the foundation for continuing and post-secondary education in fashion, textile, and apparel-related careers.

- Counts as a Directed Elective or Elective for all diplomas.

INTRODUCTION TO HOUSING & INTERIOR DESIGN GRADES 10-12, 1 TRIMESTER

5350

Introduction to Housing and Interior Design is an introductory course essential for those students interested in academic enrichment or a career within the housing, interior design, or furnishings industry. This course addresses the selection and planning of designed spaces to meet the needs, wants, values and lifestyles of individuals, families, clients, and communities. Housing decisions, resources and options will be explored including factors affecting housing choices and the types of housing available. Developmental influences on housing and interior environments will also be considered. Basic historical architectural styling and basic furniture styles will be explored as well as basic identification of the elements and principles of design. Design and space planning involves evaluating floor plans and reading construction documents while learning to create safe, functional, and aesthetic spaces. Presentation techniques will be practiced to thoroughly communicate design ideas. Visual arts concepts will be addressed. Direct, concrete mathematics proficiencies will be applied. A project based approach will be utilized requiring higher-order thinking, communication, leadership and management processes as housing and interior design content is integrated into the design of interior spaces while meeting specific project criteria. This course provides the foundation for further study and careers in the architecture, construction, housing, interior design, and furnishings industries.

- Counts as a Directed Elective or Elective for all diplomas.

ENGLISH/LANGUAGE ARTS

AP ENGLISH LITERATURE AND COMPOSITION

GRADE 11, 2 TRIMESTERS

1058

AP English Literature and Composition is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. The 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 works.

- *Recommended Prerequisites: Honors English 9 and Honors English 10 with A or B, and 3.00 GPA.* Students should be able to read and comprehend college-level texts and apply the conventions of Standard Written English in their writing.
- Fulfills an English/Language Arts requirement for all diplomas.
- Tier 3 course

CONTEMPORARY LITERATURE

GRADES 10-12, 1 TRIMESTER

1054

Contemporary Literature, a course based on the Indiana Academic Standards for English/Language Arts, is a study of how post-1950s literature from around the world, such as North and South America, Europe and Great Britain, the Middle East, and post-colonial Africa and Asia, addresses contemporary issues. Students examine multiple genres to develop a sense of how particular genres are used today to represent ideas and events. Students analyze different theories and methods of textual criticism especially theories currently popular. Students analyze how the interpretations and themes of contemporary literature read in this course relate to the time period and to historical issues.

- Recommended Prerequisites: C or higher in English classes taken
- Counts as a Directed Elective or Elective for all diplomas.

CREATIVE WRITING

GRADES 10-12, 1 TRIMESTER

1092

Creative Writing, a course based on Indiana's Academic Standards for English/Language Arts and the *Common Core State Standards for English/Language Arts*, 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.

- *Recommended Prerequisites: C or better in English classes taken, or teacher recommendation*
- Counts as a Directed Elective or Elective for all diplomas.

ENGLISH 9

GRADE 9, 2 TRIMESTERS

1002

English 9, an integrated English course based on the Indiana Academic Standards for English/Language Arts in Grades 9-10, is a study of language, literature, composition, and oral communication, focusing on literature within an appropriate level of complexity for this grade band. Students use literary interpretation, analysis, comparisons, and evaluation to read and respond to representative works of historical or cultural significance in classic and contemporary literature balanced with nonfiction. Students write responses to literature, expository (informative), narrative, and argumentative/persuasive compositions, and sustained research assignments. Students deliver grade-appropriate oral presentations with attention to audience and purpose and access, analyze, and evaluate online information.

- **English 9 Honors (tier 2 course) is available for students seeking a more advanced English opportunity.**
- Fulfills an English/Language Arts requirement for all diplomas

ENGLISH 10

GRADE 10, 2 TRIMESTERS

1004

English 10, an integrated English course based on the Indiana Academic Standards for English/Language Arts in Grades 9- 10, is a study of language, literature, composition, and oral communication, focusing on literature with an appropriate level of complexity for this grade band. Students use literary interpretation, analysis, comparisons, and evaluation to read and respond to representative works of historical or cultural significance in classic and contemporary literature balanced with nonfiction. Students write responses to literature, expository (informative) and argumentative/persuasive compositions, and sustained research assignments. Students deliver grade-appropriate oral presentations with attention to audience and purpose and access, analyze, and evaluate online information.

- **English 10 Honors (tier 2 course) is available for students seeking a more advanced English opportunity.**
- Fulfills an English/Language Arts requirement for all diplomas

ENGLISH 11

GRADE 11, 2 TRIMESTERS

1006

English 11, 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 with an appropriate level of complexity for this grade band. Students use literary interpretation, analysis, comparisons, and evaluation to read and respond to representative works of historical or cultural significance appropriate in classic and contemporary literature balanced with nonfiction. Students write narratives, responses to literature, academic essays (e.g. analytical, persuasive, expository, summary), and more sustained research assignments incorporating visual information in the form of pictures, graphs, charts and tables. Students write and

- **AP English Literature (tier 3 course) is available for students seeking a more advanced English opportunity.**
- Fulfills an English/Language Arts requirement for all diplomas

ENGLISH 12

GRADE 12, 2 TRIMESTERS

1008

English 12, an integrated English course based on the Indiana Academic Standards for English/Language Arts for Grades 11- 12, is a study of language, literature, composition, and oral communication focusing on an exploration of point of view or perspective across a wide

variety of genres. Students use literary interpretation, analysis, comparisons, and evaluation to read and respond to representative works of historical or cultural significance in classic and contemporary literature balanced with nonfiction. Students write narratives, responses to literature, academic essays (e.g. analytical, persuasive, expository, summary), and more sustained research assignments incorporating visual information in the form of pictures, graphs, charts and tables. Students write and deliver grade-appropriate multimedia presentations and access, analyze, and evaluate online information

- Fulfills an English/Language Arts requirement for all diplomas
- **English 12 Honors (tier 2 course) is available for students seeking a more advanced English opportunity. It is dual credit through Ivy Tech.**

GENRES OF LITERATURE

GRADE 9-10, 1 TRIMESTER

1036

Genres of Literature, a course based on *Indiana's Academic Standards for English/Language Arts* and the *Common Core State 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 stronger impact on the culture than others in different historical time periods, and what the most influential genres are in contemporary times.

- Counts as a Directed Elective or Elective for all diplomas

CRITICAL THINKING AND ARGUMENTATION

GRADE 12, 1 TRIMESTER

1074

Critical Thinking and Argumentation, a course based on the *Indiana Academic Standards for English/Language Arts*, is a study of deductive and inductive logic, including logical fallacies, and should challenge students to think critically, analytically, and philosophically. Students learn to formulate thoughtful inquiry questions, connect ideas or concepts, challenge ideas and concepts, and rephrase ideas when appropriate. Active class participation is essential, including persistent questioning, rational discussion, and reasoned argumentation. Students make comments that reflect the development of logic (a line of reasoning), represent a clear point of view, and involve evidence of support (data, examples, anecdotes, documents, information from a variety of sources). Students use the same Standard English conventions for oral speech that they use in their writing.

- Prerequisite: Must have earned all A's and B's in English.
- Counts as an English/Language Arts Course for the General Diploma only or as an Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

LANGUAGE ARTS LAB

GRADES 9-12, 1 TRIMESTER

1010

Language Arts Lab is a supplemental course that provides students with individualized or small group instruction designed to support success in completing course work aligned with the *Indiana Academic Standards for English Language/Arts* focusing on the writing standards. All students should be concurrently enrolled in an English course in which class work will address all of the *Indiana Academic Standards*.

- Counts as an elective for all diplomas
- *Students will be placed in this course based on need.*

LINGUISTICS (SAT PREP)

GRADES 11-12, 1 TRIMESTER

1064

Linguistics, a language studies course based on the Indiana Academic Standards for English/Language Arts, is the study of language structures and patterns that enable humans to communicate with an infinite number of ideas using a finite grammar and vocabulary. Students examine the terminology and sub-categories of linguistics as a field of study, including semantics, syntax, and morphology. Students analyze the psychological, social, and cultural factors that contribute to choices of structure and pattern by language users.

- **Students will complete additional work designed to help them prepare for the Evidence Based Reading Writing portion of the SAT.**
- Counts as a Directed Elective or Elective for all diplomas.

NOVELS

GRADES 11-12, 1 TRIMESTER

1042

Novels, a course based on the Indiana Academic Standards for English/Language Arts, is a study of the distinct features of the novel, such as narrative and fictional elements of setting, conflict, climax, and resolution, and may be organized by historical periods, themes, or authors. Students examine novels of a given period, such as Victorian, the Modern Period, or Contemporary Literature, and what distinguishes novels from short stories, epics, romances, biographies, science fiction, and others. Students analyze novels by various important authors from the past and present or sets of novels from a specific era or across several eras.

- Counts as a Directed Elective or Elective for all diplomas
- **This class will be offered on an every-other-year basis.**

POETRY

GRADES 9-12, 1 TRIMESTER

1044

Poetry, a course based on the Indiana Academic Standards for English/Language Arts, is a study of poetic works, the interpretation of poetry, and the variety of structures, devices, and themes that differentiate one type of poetry from another. Students examine a wide variety of major poetic works from the English-speaking world and English translations of important works from the non-English-speaking world. Students analyze the impact of aural devices, such as meter, alliteration, assonance, and rhyme, on the overall interpretation of a poem and how poetry is a form of literary expression that has prevailed through the ages.

- Counts as a Directed Elective or Elective for all diplomas

STUDENT MEDIA (YEARBOOK)

GRADES 10-12, 1-3 TRIMESTERS

1086

Student Media, a course based on the High School Journalism Standards and the Student Media Standards, is the continuation of the study of journalism. Students demonstrate their ability to do journalistic writing and design for high school media, including school newspapers and yearbooks, and a variety of other media formats. Students follow the ethical principles and legal boundaries that guide scholastic journalism. Students express themselves publicly with meaning and clarity for the purpose of informing, entertaining, or persuading. Students work on high school media staffs so that they may prepare themselves for career paths in journalism, communications, writing, or related fields.

- *Recommended Prerequisites: A or B in English classes*
- Counts as a Directed Elective or Elective for all diplomas
- **Fulfills the Fine Arts requirement for the Core 40 with Academic Honors Diploma.**

THEMES IN LITERATURE

GRADES 11-12, 1 TRIMESTER

1048

Themes in Literature, a course based on *Indiana's Academic Standards for English/Language Arts*, is a study of universal themes, such as the journey of the hero, the trials of youth, the search for identity, and other themes appropriate to the level and interests of students. The course may be limited to a few important related themes. Students examine representative works in various genres by authors of diverse eras and nationalities and the way themes may be treated differently in the works because of the cultural context. Students analyze how themes illuminate humanity's struggle to understand the human condition.

- *Recommended Prerequisites: English 9, English 10, or teacher recommendation*
- Counts as a Directed Elective or Elective for all diplomas
- **This class will be offered on an every-other-year basis.**

FINE ARTS

Music Course Titles

ADVANCED CHORUS

GRADES 10-12, 3 TRIMESTERS

4188

Advanced Chorus is based on the Indiana Academic Standards for High School Choral Music. Students taking Advanced Chorus develop musicianship and specific performance skills through ensemble and solo singing. This class includes the study of quality repertoire in the diverse styles of choral literature appropriate in difficulty and range for the students. Chorus classes provide opportunities for performing, creating, and responding to music. Students develop the ability to understand and convey the composer's intent in performance of music. Time outside of the school day may be scheduled for rehearsals and performances. A limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students are required to participate in performance opportunities outside of the school day that support and extend learning in the classroom.

- Prerequisite: Permission of Instructor, **Audition Required**
- *Fulfills requirement for Fine Arts credits for Core 40 with Academic Honors diploma*
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

AP MUSIC THEORY

GRADES 10-12, 2 TRIMESTERS

4210

Music Theory, Advanced Placement is a course based on the content established by the College Board. Music Theory is intended for secondary school students who have completed music studies comparable to a first-year college course in music theory. The guidelines for the course that are published by The College Board may not match any particular college program, but they do reflect the coverage of content and level of skills typical of most first-year college courses. This course should integrate aspects of melody, harmony, texture, rhythm, form, musical analysis, elementary composition, and history, and style. The student's ability to read and write musical notation is fundamental to this course, and it is also assumed that the student has acquired at least basic performance skills in voice or on an instrument. A comprehensive description of this course can be found on the College Board AP Central Course Description web page at:

<http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html>.

- Fulfills requirement for two Fine Arts credits for Core 40 with Academic Honors diploma
- Counts as a Directed Elective or Elective for all diplomas
- **This course will be offered on an every-other-year rotation**
- Tier 3 course

BEGINNING CHORUS

GRADES 9-12, 3 TRIMESTERS

4182

Beginning Chorus is based on the Indiana Academic Standards for High School Choral Music. Students taking Beginning Chorus develop musicianship and specific performance skills through ensemble and solo singing. This class includes the study of quality repertoire in the diverse styles of choral literature appropriate in difficulty and range for the students. Chorus classes provide opportunities for performing, creating, and responding to music. Students develop the ability to understand and convey the composer's intent in performance of music. Time outside of the school day may be scheduled for rehearsals and performances. A limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students are required to participate in performance opportunities outside of the school day that support and extend learning in the classroom.

- *Fulfills requirement for Fine Arts credits for Core 40 with Academic Honors diploma*
- Counts as a Directed Elective or Elective for all diplomas

CONCERT BAND

GRADES 9-12, 3 TRIMESTERS

4160

Concert Band is based on the Indiana Academic Standards for High School Instrumental Music. This course provides students with a balanced comprehensive study of music through the concert band, which develops skills in the psychomotor, cognitive, and affective domains. Ensemble and solo activities are designed to develop elements of musicianship including tone production, technical skills, intonation, music reading skills, listening skills, analyzing music, studying historically significant styles of literature, and integration of other applicable disciplines. Experiences include improvising, conducting, playing by ear, and sight-reading. Students develop the ability to understand and convey the composer's intent in performance of music. Time outside of the school day will be scheduled for rehearsals and performances. A limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students are required to participate in performance opportunities outside of the school day that support and extend learning in the classroom **including, but not limited to, concerts, festivals, and athletic events.**

- Students may have the option of participating in Marching Band, Jazz Band, Color Guard, Winter Guard, Winter Drumline and Pit Band in addition to this class.
- Prerequisite: Prior band experience or permission of instructor
- *Fulfills requirement for Fine Arts credits for Core 40 with Academic Honors diploma*
- Counts as a Directed Elective or Elective for all diplomas

DANCE PERFORMANCE

GRADES 10-12, 1 TRIMESTER

4146

Dance Performance is based on the Indiana Academic Standards for Dance. Sequential and systematic learning experiences are provided in the specific genre offered, whether it is Ballet, Modern, Jazz, or Ethnic-Folk. Activities utilize a wide variety of materials and experiences and are designed to develop techniques appropriate within the genre, including individual and group instruction in performance repertoire and skills. Students develop the ability to express their thoughts, perceptions, feelings, and images through movement. The performance class provides opportunities for students to experience degrees of physical prowess, technique,

flexibility, and the study of dance performance as an artistic discipline and as a form of artistic communication. Students describe, analyze, interpret, and judge live and recorded dance performances of professional dancers and companies in the genre. They also become aware of the vocational and a vocational opportunities in dance.

- Fulfills requirement for 1 of 2 Fine Arts credits for Core 40 with Academic Honors diploma
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

INTERMEDIATE CHORUS

GRADES 10-12, 3 TRIMESTERS

Intermediate Chorus is based on the Indiana Academic Standards for High School Choral Music. Students taking Intermediate Chorus develop musicianship and specific performance skills through ensemble and solo singing. This class includes the study of quality repertoire in the diverse styles of choral literature appropriate in difficulty and range for the students. Chorus classes provide opportunities for performing, creating, and responding to music. Students develop the ability to understand and convey the composer's intent in performance of music. Time outside of the school day may be scheduled for rehearsals and performances. A limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students are required to participate in performance opportunities outside of the school day that support and extend learning in the classroom.

- Fulfills a Fine Arts requirement for the Core 40 with Academic Honors diploma
- Counts as a Directed Elective or Elective for all diplomas

MUSIC HISTORY AND APPRECIATION

GRADES 9-12, 1 TRIMESTER

4206

Music History and Appreciation is based on the Indiana Academic Standards for Music and standards for this specific course. Students receive instruction designed to explore music and major musical styles and periods through understanding music in relation to both Western and Non-Western history and culture. Activities include analyzing and describing music; evaluating music and music performances; and understanding relationships between music and the other arts, as well as disciplines outside of the arts.

- Fulfills requirement for 1 of 2 Fine Arts credits for Core 40 with Academic Honors diploma
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- This course is expected to be offered on an every-other-year rotation
- This course will not be offered during the 2017-18 school year.

Visual Arts Course Titles

ADVANCED 2D ART

GRADES 10-12, 1 TRIMESTER

4004

Advanced Two-Dimensional Art is a course based on the Indiana Academic Standards for Visual Art. Students in this course build on the sequential learning experiences of Introduction to Two-Dimensional Art that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. Students explore historical and cultural background and connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; create two-dimensional works of art, reflect upon the outcomes,

and revise their work; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. They identify ways to utilize and support art museums, galleries, studios, and community resources.

- *Recommended Prerequisites: Introduction to Two-Dimensional Art*
- *Fulfills requirement for 1 of 2 Fine Arts credits for Core 40 with Academic Honors diploma*
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

CERAMICS

GRADES 10-12, 1 TRIMESTER

4040

Ceramics is a course based on the Indiana Academic Standards for Visual Art. Students in ceramics 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 art in clay utilizing the processes of hand building, molds, wheel throwing, slip and glaze techniques, and the firing 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.

- *Fulfills requirement for 1 of 2 Fine Arts credits for Core 40 with Academic Honors diploma*
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

CERAMICS II

GRADES 11-12, 1 TRIMESTER

4040

Ceramics II is a sequential course in ceramics with emphasis on increasing proficiency in hand-building, wheel throwing techniques, and the use of glazes. The students will be further exposed to the construction of functional and non-functional ceramics. The students will be given assignments of increased complexity.

- *Required Prerequisites: Ceramics I*
- *Fulfills requirement for 1 of 2 Fine Arts credits for Core 40 with Academic Honors diploma*
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

DIGITAL DESIGN

GRADES 9-12, 1 TRIMESTER

4082

Digital Design is a course based on the Indiana Academic Standards for Visual Art. Students in digital design engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. They incorporate desktop publishing, multi-media, digitized imagery, computer animation, and web design. 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.

- *Fulfills requirement for 1 of 2 Fine Arts credits for Core 40 with Academic Honors diploma*

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

DRAWING

GRADES 10-12, 1 TRIMESTER

4060

Drawing is a course based on the Indiana Academic Standards for Visual Art. Students in drawing 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 drawings utilizing processes such as sketching, rendering, contour, gesture, and perspective drawing and use a variety of media such as pencil, chalk, pastels, charcoal, and pen and ink. 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.

- Recommended Prerequisite: Intro to Two Dimensional Art
- *Fulfills requirement for 1 of 2 Fine Arts credits for Core 40 with Academic Honors diploma*
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

FIBER ARTS

GRADES 10-12, 1 TRIMESTER

4046

Fiber Arts is a course based on the Indiana Academic Standards for Visual Art. Students in fiber arts 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 fiber art works utilizing processes such as loom and off-loom construction, dyeing, coiling, and stitchery. 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.

- *Fulfills requirement for 1 of 2 Fine Arts credits for Core 40 with Academic Honors diploma*
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

INTRODUCTION TO 3D ART

GRADES 10-12, 1 TRIMESTER

4002

Introduction to Three-Dimensional Art is a course based on the Indiana Academic Standards for Visual Art. Students taking this course engage in sequential learning experiences that encompass art history, art criticism, aesthetics, production, and integrated studies and lead to the creation of portfolio quality works. Students explore historical and cultural background and connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; create three-dimensional works of art, reflect upon the outcomes, and revise their work; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. They identify ways to utilize and support art museums, galleries, studios, and community resources.

- *Recommended Prerequisites: Introduction to Two-Dimensional Art*

- *Fulfills requirement for 1 of 2 Fine Arts credits for Core 40 with Academic Honors diploma*
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

INTRODUCTION TO 2D ART

GRADES 9-12, 1 TRIMESTER

4000

Introduction to Two-Dimensional Art is a course based on the Indiana Academic Standards for Visual Art. Students taking this course engage in sequential learning experiences that encompass art history, art criticism, aesthetics, production, and integrated studies and lead to the creation of portfolio quality works. Students explore historical and cultural background and connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; create two-dimensional works of art, reflect upon the outcomes, and revise their work; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. They identify ways to utilize and support art museums, galleries, studios, and community resources.

- *Fulfills requirement for 1 of 2 Fine Arts credits for Core 40 with Academic Honors diploma*
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

PAINTING

GRADES 10-12, 1 TRIMESTER

4064

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

- *Recommended Prerequisites: Introduction to Two-Dimensional Art*
- *Fulfills requirement for 1 of 2 Fine Arts credits for Core 40 with Academic Honors diploma*
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

PHOTOGRAPHY

GRADES 11-12, 1 TRIMESTER

4062

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.

- *Recommended Prerequisites: Introduction to Two-Dimensional Art*
- *Fulfills requirement for 1 of 2 Fine Arts credits for Core 40 with Academic Honors diploma*
- *Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas*

HEALTH AND PHYSICAL EDUCATION

Health Education

HEALTH & WELLNESS EDUCATION

GRADE 10, 1 TRIMESTER

3506

Health & Wellness, a course based on *Indiana's Academic Standards for Health & Wellness*, provides the basis to help students adopt and maintain healthy behaviors. Health education should contribute directly to a student's ability to successfully practice behaviors that protect and promote health and avoid or reduce health risks. Through a variety of instructional strategies, students practice the development of functional health information (essential concepts); determine personal values that support health behaviors; develop group norms that value a healthy lifestyle; develop the essential skills necessary to adopt, practice, and maintain health-enhancing behaviors. This course includes the application of priority areas in a planned, sequential, comprehensive health education curriculum. Priority areas include: promoting personal health and wellness, physical activity, healthy eating, promoting safety and preventing unintentional injury and violence, promoting mental and emotional health, a tobacco-free lifestyle and an alcohol- and other drug-free lifestyle and promoting human development and family health. This course provides students with the knowledge and skills of health and wellness core concepts, analyzing influences, accessing information, interpersonal communication, decision-making and goal-setting skills, health-enhancing behaviors, and health and wellness advocacy skills.

- ***Required course; fulfills the Health & Wellness requirement for all diplomas***

Physical Education

PHYSICAL EDUCATION I

GRADE 9, 1 TRIMESTER

3542

Physical Education I focuses on instructional strategies through a planned, sequential, and comprehensive physical education curriculum which provide students with opportunities to actively participate in at least four of the following: team sports; dual sport activities; individual physical activities; outdoor pursuits; self-defense and martial arts; aquatics; gymnastics; and dance, all which are within the framework of lifetime physical activities and fitness. Ongoing assessment includes both written and performance-based skill evaluation.

- ***Required course; fulfills part of the Physical Education requirement for all diplomas***

PHYSICAL EDUCATION II

GRADE 9, 1 TRIMESTER

3544

Physical Education II focuses on instructional strategies through a planned, sequential, and comprehensive physical education curriculum which provide students with opportunities to

actively participate in four of the following that were not in Physical Education I: team sports; dual sport activities; individual physical activities; outdoor pursuits; self-defense and martial arts; aquatics; gymnastics; and dance, all which are within the framework of lifetime physical activities and fitness. Ongoing assessment includes both written and performance-based skill evaluation.

- **Required course; fulfills part of the Physical Education requirement for all diplomas**

ELECTIVE PHYSICAL EDUCATION

AEROBICS

GRADE 10-12, 1 TRIMESTER

3560

The content of the class will center on exercise with the total body fitness in mind. Areas of instruction will be exercising for fitness through a variety of aerobic activities including plyometrics, yoga, pilates, kenpo, core, cardio, circuit, taekwondo, and dance.

- *Prerequisites: Physical Education I and II*
- *Counts as an Elective for all diploma types*

ELECTIVE PHYSICAL EDUCATION

LIFEGUARDING TODAY

GRADE 10-12, 1 TRIMESTER

3560

According to American Red Cross standards, a student must be 15 years of age by the last day of class. The student must be a strong swimmer who is capable of performing the front crawl and breast stroke. **On the first day of class the student must be able to swim 300 yards non-stop and they must be able to surface dive, retrieve a 10-pound brick from 10 feet underwater, re-surface, and swim 20 yards with the brick in a timed drill.** The course will include videos, textbook learning, written testing, land-based skill testing, and in-water skill testing. Two sets of standards will be used. The school grading scale will be used to determine if the student receives a credit for the class. The American Red Cross standards will be used in order to determine certification in CPR for the Professional Rescuer, AED, First Aid, and Life Guarding.

- *Prerequisites: Physical Education I and II*
- *Counts as an Elective for all diploma types*

ELECTIVE PHYSICAL EDUCATION

WEIGHT TRAINING

GRADE 10-12, 1-3 TRIMESTERS

3560

Elective Physical Education, a course based on selected standards from *Indiana's Academic Standards for Physical Education*, identifies what a student should know and be able to do as a result of a quality physical education program. 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. A minimum of two of the following activities should be included: team sports; dual sports activities; individual physical activities; outdoor pursuits; self-defense and martial arts; aquatics; gymnastics; and dance. 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. Ongoing assessment includes both written and performance-based skill evaluation.

- *Prerequisites: Physical Education I and II*
- *Counts as an Elective for all diplomas*
- **In order to take Weight Training successive trimesters, you must have earned a B- or better the previous Trimester. If you fail to earn the necessary grade, you may not enroll in the following trimester.**

MATHEMATICS

ALGEBRA I

GRADE 9, 2 TRIMESTERS

2520

Algebra I formalizes and extends the mathematics students learned in the middle grades. Algebra I is made up of 5 strands: Real Numbers and Expressions; Functions; Linear Equations, Inequalities, and Functions; Systems of Equations and Inequalities; Quadratic and Exponential Equations and Functions; and Data Analysis and Statistics. These critical areas deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and students engage in methods for analyzing, solving, and using quadratic functions. 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.

- Fulfills the Algebra I requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas.
- Honors Algebra I (tier 2 course) is offered to Grade 8 students that meet selection criteria.

ALGEBRA II

GRADE 10-12, 2 TRIMESTERS

2522

Algebra II builds on work with linear, quadratic, and exponential functions and allows for students to extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The Mathematical Practice Standards apply throughout each course and, together with the content 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.

- *Prerequisite: Algebra I and Geometry*
- Fulfills the Algebra II/Integrated Mathematics III requirement for the Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas and counts as a Mathematics Course for the General Diploma.
- ***Honor's Algebra II (tier 2 course) is available for students on pace to reach Calculus***

AP CALCULUS AB
ACP DUAL COLLEGE CREDIT: INDIANA UNIVERSITY

GRADE 12, 3 TRIMESTERS

2562

AP Calculus AB is a course based on the content established and copyrighted by the College Board. AP Calculus AB is equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. 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.

- Required Prerequisite: Pre-Calculus
- Counts as a Mathematics Course for all diplomas
- Tier 3 course

AP CALCULUS BC

GRADE 12, 3 TRIMESTERS

2572

AP Calculus BC is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. AP Calculus BC is roughly equivalent to both first and second semester college calculus courses and extends the content learned in AP Calculus AB to different types of equations and introduces the topic of sequences and series. This course covers topics in differential and integral calculus, including concepts and skills of limits, derivatives, definite integrals, the Fundamental Theorem of Calculus, and series. 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. The content of AP Calculus BC is designed to qualify the student for placement and credit in a course that is one course beyond that granted for AP Calculus A.

- Required Prerequisite: Calculus AB or Instructor Approval
- Counts as a Mathematics Course for all diplomas
- Tier 3 course

BUSINESS MATH

GRADE 11-12, 2 TRIMESTERS

4512

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

- Prerequisite: Algebra I
- Fulfills a Mathematics requirement for the General Diploma only or counts as an Elective or Directed Elective for the Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **This class is reserved for those students on track to earn a general diploma**

FINITE MATHEMATICS

GRADE 11-12, 2 TRIMESTERS

2530

Finite Mathematics is an umbrella of mathematical topics. It is a course designed for students who will undertake higher-level mathematics in college that may not include calculus. Finite Math is made up of five strands: Sets, Matrices, Networks, Optimization, and Probability. The skills listed in these strands indicate what students should know and be able to do in Finite Math. 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.

- Prerequisite: Algebra II and Geometry
- Counts as a Mathematics Course for all diplomas

GEOMETRY

GRADE 9-12, 2 TRIMESTERS

2532

Geometry formalizes and extends students' geometric experiences from the middle grades. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Five critical areas comprise the Geometry course: Logic and Proofs; Points, Lines, Angles, and Planes; Triangles; Quadrilaterals and Other Polygons; Circles; Transformations; and three dimensional Solids. 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.

- Prerequisite: Algebra I
- Fulfills the Geometry/Integrated Mathematics II requirement for the Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas and counts as a Mathematics Course for the General Diploma
- ***Honor's Geometry (tier 2 course) is available for those students on pace to reach Calculus***

MATHEMATICS LAB

GRADE 10-12, 1 TRIMESTER

2560

Mathematics Lab provides students with individualized instruction designed to support success in completing mathematics coursework aligned with *Indiana's Academic Standards for Mathematics*. It is recommended that *Mathematics Lab* is taken in conjunction with a Core 40 mathematics course, and the content of *Mathematics Lab* should be tightly aligned to the content of its corresponding course. *Mathematics Lab* should not be offered in conjunction with *Algebra I* or *Integrated Mathematics I*; instead, schools should offer *Algebra Enrichment* or *Integrated Mathematics Enrichment* to provide students with rigorous support for these courses.

- Counts as an Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Students will be placed in this class based on need.

PRE-CALCULUS

GRADE 11-12, 1 TRIMESTER

DUAL COLLEGE CREDIT: IVY TECH

2564

Pre-Calculus extends the foundations of algebra and functions developed in previous courses to new functions, including exponential and logarithmic functions, and to higher-level sequences and series. The course provides students with the skills and understandings that are necessary for advanced manipulation of angles and measurement. Pre-Calculus is made up of five

strands: Polar Coordinates and Complex Numbers; Functions; Quadratic, Polynomial, and Rational Equations and Functions; Exponential and Logarithmic Equations and Functions; and Parametric Equations. Students will also advance their understanding of imaginary numbers through an investigation of complex numbers and polar coordinates. 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.

- *Prerequisite: Geometry and Algebra II*
- PreCalculus should be paired with Trigonometry
- Counts as a Mathematics Course for all diplomas
- Tier 2 course

TRIGONOMETRY

GRADE 11-12, 1 TRIMESTER

DUAL COLLEGE CREDIT: IVY TECH

2566

Trigonometry provides students with the skills and understandings that are necessary for advanced manipulation of angles and measurement. Trigonometry provides the foundation for common periodic functions that are encountered many disciplines, including music, engineering, medicine, and finance (and nearly all other STEM disciplines). Trigonometry consists of seven strands: Conics, Unit Circle, Geometry, Periodic Functions, Identities, Polar Coordinates, and Vectors. Students will also advance their understanding of imaginary numbers through an investigation of complex numbers and polar coordinates. A strong understanding of complex and imaginary numbers is a necessity for fields such as engineering and computer programming. 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.

- *Prerequisite: Geometry and Algebra II*
- Trigonometry should be paired with PreCalculus
- Counts as a Mathematics Course for all diplomas
- Tier 2 course

PROBABILITY AND STATISTICS

GRADE 11-12, 1 TRIMESTER

2546

Probability and Statistics includes the concepts and skills needed to apply statistical techniques in the decision-making process. Topics include: (1) descriptive statistics, (2) probability, and (3) statistical inference. Practical examples based on real experimental data are used throughout. Students plan and conduct experiments or surveys and analyze the resulting data. The use of graphing calculators and computer programs is encouraged.

- *Prerequisite: Algebra II and Geometry*
- Counts as a Mathematics Course for all diplomas

MULTIDISCIPLINARY

BASIC SKILLS DEVELOPMENT

GRADES 9-12, 1-3 TRIMESTERS

0500

Basic Skills Development is a multidisciplinary course which provides students continuing opportunities to develop basic skills including: (1) reading, (2) writing, (3) listening, (4) speaking, (5) mathematical computation, (6) note taking, (7) study and organizational skills, and (8) problem-solving skills that are essential for high school course work achievement. Determination of the skills to be emphasized in this course is based on Indiana's standards, individual school corporation general curriculum plans, and student Individualized Education Programs (IEP) or other individualized plans. Skills selected for developmental work provide students with the ability to continue to learn in a range of different life situations.

- Credits: One credit per trimester up to 8 credits
- Counts as an Elective for all diplomas

COMPUTER TECH SUPPORT

GRADES 10-12, 1 TRIMESTER

5230

Computer Tech Support allows students to explore how computers work. Students learn the functionality of hardware and software components as well as suggested best practices in maintenance and safety issues. Through hands on activities and labs, students learn how to assemble and configure a computer, install operating systems and software, and troubleshoot hardware and software problems.

- Students in this class will be part of the **Student Tech Team**
- Credits: Maximum of 6 credits
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas.

MASS MEDIA

GRADES 10-12, 1-3 TRIMESTERS

1084

Mass Media I: Announcements

Mass Media II: Charger TV/Advanced Projects

Mass Media, a course based on the High School Journalism Standards and the Mass Media and Media Literacy Standards, is the study of the importance of mass media as pervasive in modern life at the local, national, and global levels. It includes a study of the impact of constant and immediate news, entertainment, and persuasive messages on everyday life. Students use course content to become knowledgeable consumers of mass media in preparation for their roles as informed citizens in a democratic society.

- Counts as an Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diploma

PEER TUTORING

GRADES 11-12, 1 TRIMESTER

0520

Peer Tutoring provides high school students with an organized exploratory experience to assist students in kindergarten through grade twelve (K-12), through a helping relationship, with their studies and personal growth and development. The course provides opportunities for the students taking the course to develop a basic understanding of individual differences and to explore career options in related fields. Peer Tutoring experiences are preplanned by the

teacher trainer and any cooperating teacher under whom the tutoring is to be provided. It must be conducted under the supervision of a licensed teacher. The course provides a balance of class work relating to the development of and use of: (1) listening skills, (2) communication skills, (3) facilitation skills, (4) decision-making skills, and (5) teaching strategies.

- Credits: One credit per trimester, up to 2 credits
- Counts as an Elective for all diplomas
- Application required for this course.

SCIENCE

ADVANCED LIFE SCIENCE, ANIMALS

GRADES 11-12, 2 TRIMESTERS

DUAL COLLEGE CREDIT: IVY TECH

5070

Advanced Life Science, Animals, is a standards-based, interdisciplinary science course that integrates biology, chemistry, and microbiology in an agricultural context. Students enrolled in this course formulate, design, and carry out animal-based laboratory and field investigations as an essential course component. Students investigate key concepts that enable them to understand animal growth, development and physiology as it pertains to agricultural science. This course stresses the unifying themes of both biology and chemistry as students work with concepts associated with animal taxonomy, life at the cellular level, organ systems, genetics, evolution, ecology, and historical and current issues in animal agriculture. Students completing this course will be able to apply the principles of scientific inquiry to solve problems related to biology and chemistry in highly advanced agricultural applications of animal development.

- Recommended Prerequisites: Biology and Chemistry
- Fulfills a Core 40 Life Science requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas or counts as an Elective or Directed Elective for any diploma

ANATOMY & PHYSIOLOGY

GRADES 11-12, 2 TRIMESTERS

5276

Anatomy & Physiology is a course in which students investigate concepts related to Health Science, with emphasis on interdependence of systems and contributions of each system to the maintenance of a healthy body. Introduces students to the cell, which is the basic structural and functional unit of all organisms, and covers tissues, integument, skeleton, muscular and nervous systems as an integrated unit. Through instruction, including laboratory activities, students apply concepts associated with Human Anatomy & Physiology. Students will understand the structure, organization and function of the various components of the healthy body in order to apply this knowledge in all health related fields.

- Required Prerequisite: Biology I with A or B
- Fulfills a Core 40 Science course requirement for the General, Core 40, Core 40 with Academic Honors, and Core 40 with Technical Honors diplomas or counts as an Elective or Directed Elective for any diploma

AP PHYSICS 1: ALGEBRA BASED

GRADES 11-12, 2 TRIMESTERS

3080

AP Physics1 is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. AP Physics 1: Algebra-

based is equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound. It will also introduce electric circuits. •

Recommended Grade Level: 10, 11

- Recommended Prerequisite: Algebra I with A or B
- Counts as a Science Course for all diplomas
- Qualifies as a quantitative reasoning course
- Tier 3 course

AP PHYSICS 2: ALGEBRA BASED

GRADES 11-12, 2 TRIMESTERS

3081

AP Physics 2 is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. AP Physics 2: Algebra-based is equivalent to a second-semester college course in algebra-based physics. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; atomic and nuclear physics

- Recommended Prerequisite: AP Physics I: Algebra Based
- Counts as a Science Course for all diplomas
- Qualifies as a quantitative reasoning course
- Tier 3 course

BIOLOGY I

GRADE 9, 2 TRIMESTERS

3024

Biology I is a course based on the following core topics: cellular chemistry, structure and reproduction; matter cycles and energy transfer; interdependence of organisms; molecular basis of heredity; genetics and evolution. Instruction should focus on developing student understanding that scientific knowledge is gained from observation of natural phenomena and experimentation by designing and conducting investigations guided by theory and by evaluating and communicating the results of those investigations according to accepted procedures.

- Fulfills the Biology requirement for all diplomas
- **Honors Biology** (tier 2 course) is available for those students interested in a more advanced and in-depth approach to entry level biology.

BIOLOGY II: GENETICS

GRADE 11-12, 1 TRIMESTER

3026

Genetics is an advanced level biology course. Concepts explored include the cell, cellular reproduction, patterns of inheritance, molecular genetics, and genetic technology. This course utilizes the scientific method; hands-on inquiry based investigations, and technology to develop an understanding of genetic principles. The goal of this course is to produce biologically literate citizens capable of solving real world problems by using biological knowledge and skills. In addition, students should have the tools to make personal, social, and ethical decisions.

- *Prerequisite: Biology I and Chemistry I with A or B*
- Counts as a Science Course for all diplomas

BIOLOGY II: ZOOLOGY

GRADE 11-12, 1 TRIMESTER

3026

Zoology is an advanced level biology course. Students enrolled in Zoology are provided with extended laboratory, field, and literature investigations into the internal structures, functions, and processes of animals, and the environmental interactions of these organisms. This course refines the students' methods of scientific inquiry and problem resolution

- *Prerequisite: Biology I and Chemistry I with A or B*
- Counts as a Science Course for all diplomas

CHEMISTRY I

GRADE 10, 2 TRIMESTERS

3064

Chemistry I is a course based on the following core topics: properties and states of matter; atomic structure; bonding; chemical reactions; solution chemistry; behavior of gases, and organic chemistry. Students enrolled in Chemistry I compare, contrast, and synthesize useful models of the structure and properties of matter and the mechanisms of its interactions. Instruction should focus on developing student understanding that scientific knowledge is gained from observation of natural phenomena and experimentation by designing and conducting investigations guided by theory and by evaluating and communicating the results of those investigations according to accepted procedures.

- Fulfills the 2 credit requirement for Chemistry I for the General, Core 40, Core 40 with Academic Honors, and Core 40 with Technical Honors diplomas. *Qualifies as a Quantitative Reasoning course for all diploma types.*
- **Honors Chemistry** (tier 2 course) is available for those students interested in a more advanced and in-depth approach to entry level chemistry.

CHEMISTRY II

GRADE 11-12, 2 TRIMESTERS

ACP DUAL COLLEGE CREDIT: INDIANA UNIVERSITY

3066

Chemistry II is an extended laboratory, field, and literature investigations-based course. Students enrolled in Chemistry II examine the chemical reactions of matter in living and nonliving materials. Based on the unifying themes of chemistry and the application of physical and mathematical models of the interactions of matter, students use the methods of scientific inquiry to answer chemical questions and solve problems concerning personal needs and community issues related to chemistry.

- *Recommended Prerequisite: Chemistry I, Algebra II*
- Counts as a Science Course for all diplomas
- *Qualifies as a Quantitative Reasoning course for all diploma types*
- *Tier 2 course*

ENVIRONMENTAL SCIENCE

GRADE 11-12, 2 TRIMESTERS

3010

Environmental Science is an interdisciplinary course that integrates biology, earth science, chemistry, and other disciplines. Students enrolled in this course conduct in-depth scientific studies of ecosystems, population dynamics, resource management, and environmental consequences of natural and anthropogenic processes. Students formulate, design, and carry out laboratory and field investigations as an essential course component. Students completing Environmental Science, acquire the essential tools for understanding the complexities of national and global environmental systems.

- Counts as a life Science Course for all diplomas

INTEGRATED CHEMISTRY-PHYSICS

GRADE 10, 2 TRIMESTERS

3108

Integrated Chemistry-Physics is a course focused on the following core topics: motion and energy of macroscopic objects; chemical, electrical, mechanical and nuclear energy; properties of matter; transport of energy; magnetism; energy production and its relationship to the environment and economy. Instruction should focus on developing student understanding that

scientific knowledge is gained from observation of natural phenomena and experimentation by designing and conducting investigations guided by theory and by evaluating and communicating the results of those investigations according to accepted procedures

- *Recommended Prerequisite: Algebra I (may be taken concurrently with this course)*
- Fulfills the 2 credit requirement for Chemistry I, Physics I, or Integrated Chemistry and Physics towards all diplomas
- **Students pursuing an Academic Honor's Diploma are encouraged to take Chemistry instead of this course.**

PLTW BIOMEDICAL INNOVATIONS

GRADES 11-12, 2 TRIMESTERS

5219

PLTW Biomedical Innovation is a capstone course designed to give students the opportunity to design innovative solutions for the health challenges of the 21st century as they work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. Students have the opportunity to work on an independent project and may work with a mentor or advisor from a university, hospital, physician's office, or industry. Throughout the course, students are expected to present their work to an adult audience that may include representatives from the local business and healthcare community.

- Required Prerequisites: Principles of the Biomedical Sciences, Human Body Systems, and Medical Interventions
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas.
- Fulfills a Core 40 Science course requirement for the General, Core 40, Core 40 with Academic Honors, and Core 40 with Technical Honors diplomas or counts as an Elective or Directed Elective for any diploma
- Tier 2 course

PLTW HUMAN BODY SYSTEMS

GRADES 10-12, 2 TRIMESTERS

5216

Human Body Systems is a course designed to engage students in the study of basic human physiology and the care and maintenance required to support the complex systems. Using a focus on human health, students will employ a variety of monitors to examine body systems (respiratory, circulatory, and nervous) at rest and under stress, and observe the interactions between the various body systems. Students will use appropriate software to design and build systems to monitor body functions.

- Recommended Prerequisites: Principles of Biomedical Sciences
- Fulfills a Core 40 Science requirement for all diplomas

PLTW MEDICAL INTERVENTIONS

GRADE 11-12, 2 TRIMESTERS

5217

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 supportive care. Students will also study the design and development of various interventions including vascular stents, cochlear implants, and prosthetic limbs. Lessons will cover the history of organ transplants and gene therapy with additional readings from current scientific literature addressing cutting edge developments. Using 3-D imaging software, students will design and build a model of a therapeutic protein.

- Recommended Prerequisites: Principles of the Biomedical Sciences and Human Body Systems
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Core 40 Science course requirement for all diplomas
- Tier 2 course

PLTW PRINCIPLES OF BIOMEDICAL SCIENCES

GRADES 9-12, 2 TRIMESTERS

5218

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

- Prerequisite: Biology I or concurrent enrollment in Biology I is required
- Fulfills a Core 40 Science requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas or counts as an Elective or Directed Elective for any diploma

SOCIAL STUDIES

AP HUMAN GEOGRAPHY

GRADE 10-12, 2 TRIMESTERS

1572

Human Geography, Advanced Placement is a course based on the content established by the College Board. The purpose of the AP Human Geography course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth’s surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. Topics include: (1) Geography: its nature and perspectives, (2) population, (3) cultural patterns and processes, (4) political organization of space, (5) agriculture and rural land use, (6) industrialization and economic development, and (7) cities and urban land use. A comprehensive description of this course can be found on the College Board AP Central Course Description web page at:

<http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html>

- *Required Prerequisites: 2 of the following: 3.00 GPA, A in World History and Civilization, A or B in Honors English 9, A or B in Honors Biology, and completion of application*
- *Counts as an Elective for all diplomas*

AP MACROECONOMICS

GRADE 12, 2 TRIMESTERS

1564

Macroeconomics, Advanced Placement is a course based on the content established by the College Board. The course places particular emphasis on the study of national income and price-level determinations, and also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Topics include: (1) Basic economic concepts, (2) measurement of economic performance, (3) national income and price determination, (4) economic growth, and (5) international finance, exchange rates, and balance of payments. A comprehensive description of this course can be found on the College Board AP Central Course Description web page at: <http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html>

- *Recommended Prerequisites: 3.00 GPA or teacher approval & completion of application*
- **Fulfills the Economics requirement for all diplomas, Qualifies as a Quantitative Reasoning course for all diploma types.**

AP UNITED STATES HISTORY

GRADE 11, 3 TRIMESTERS

1562

United States History, Advanced Placement is a course based on the content established by the College Board. The course has a chronological frame from 1492 to the present and focuses on multiple causation and change in United States history over time. A variety of historical themes are examined in order to place the history of the United States into larger analytical contexts. Students are expected to analyze and interpret primary sources and develop awareness of multiple interpretations of historical issues in secondary sources. Historical events and issues in U.S. history are to be examined from multiple perspectives. A comprehensive description of this course can be found on the College Board AP Central Course Description web page at: <http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html>

- *Prerequisites: 3.00 GPA, A or B in World History/Civilization, A or B in Honors English 10 or A or B in AP Human Geography, completion of application.*
- **Fulfills the US History requirement for all diplomas**

CURRENT PROBLEMS, ISSUES, AND EVENTS

GRADES 11-12, 1 TRIMESTER

1512

Current Problems, Issues, and Events gives students the opportunity to apply investigative and inquiry techniques to the study of significant problems or issues. Students develop competence in (1) recognizing cause and effect relationships, (2) recognizing fallacies in reasoning and propaganda devices, (3) synthesizing knowledge into useful patterns, (4) stating and testing hypotheses, and (5) generalizing based on evidence. Problems or issues selected will have contemporary historical significance and will be studied from the viewpoint of the social science disciplines. Community service programs and internships within the community may be included.

- Recommended /Required Prerequisites: none
- Counts as an Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

ECONOMICS

GRADE 12, 1 TRIMESTER

1514

Economics examines the allocation of resources and their uses for satisfying human needs and wants. The course analyzes economic reasoning used by consumers, producers, savers, investors, workers, voters, and government in making decisions. Key elements of the course include study of scarcity and economic reasoning, supply and demand, market structures, role

of government, national income determination, the role of financial institutions, economic stabilization, and trade. Students will explain that because resources are limited, people must make choices and understand the role that supply, demand, prices, and profits play in a market economy. The functions of government in a market economy and market structures will be examined. Students will understand economic performance, money, stabilization policies, and trade of the United States. The behavior of people, societies and institutions and economic thinking is integral to this course.

- **Fulfills the Economics requirement for all diplomas**

ETHNIC STUDIES

GRADE 10-12, 1 TRIMESTER

1516

Ethnic Studies 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.

- Counts as an Elective for all diplomas.
- May be offered online.

GEOGRAPHY AND HISTORY OF THE WORLD

GRADE 9-10, 2 TRIMESTERS

1570

Geography and History of the World is designed to enable students to use geographical tools, skills and historical concepts to deepen their understanding of major global themes including the origin and spread of world religions; exploration; conquest, and imperialism; urbanization; and innovations and revolutions. Geographical and historical skills include forming research questions, acquiring information by investigating a variety of primary and secondary sources, organizing information by creating graphic representations, analyzing information to determine and explain patterns and trends, planning for the future, and documenting and presenting findings orally or in writing. The historical geography concepts used to explore the global themes include change over time, origin, diffusion, physical systems, cultural landscapes, and spatial distribution/patterns and interaction/relationships. Students use the knowledge, tools, and skills obtained from this course in order to analyze, evaluate, and make predictions about major global developments. This course is designed to nurture perceptive and responsible citizenship, to encourage and support the development of critical thinking skills and lifelong learning, and to help prepare Indiana students for the 21st Century.

- Fulfills a Social Studies requirement for all diplomas.

INDIANA STUDIES

GRADE 10-12, 1 TRIMESTER

1518

Indiana Studies is an integrated course that compares and contrasts state and national developments in the areas of politics, economics, history, and culture. The course uses Indiana history as a basis for understanding current policies, practices, and state legislative procedures. It also includes the study of state and national constitutions from a historical perspective and as a current foundation of government. Examination of individual leaders and their roles in a democratic society will be included and student will examine the participation of citizens in the political process. Selections from Indiana arts and literature may also be analyzed for insights into historical events and cultural expressions.

- Counts as an Elective for all diplomas.
- May be offered online.

PSYCHOLOGY

GRADE 11-12, 1 TRIMESTER

1532

Psychology is the scientific study of mental processes and behavior. The course is divided into six content areas and uses the scientific methods to explore research methods and ethical consideration. Developmental psychology takes a life span approach to physical, cognitive, language, emotional, social, and moral development. Cognitive aspects of the course focus on learning, memory, information processing, and language. Personality, Assessment, and Mental Health topics include psychological disorders, treatment, personality, and assessment. Socio-cultural dimensions of behavior deal with topics such as conformity, obedience, perceptions, attitudes, and influence of the group on the individual. The Biological Basis focuses on the way the brain and nervous system function, including sensation, perception, motivation, and emotion.

- Prerequisite: Students need to have earned a C+ or higher in previous Social Studies courses, or instructor approval.
- *Counts as an Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas*

SOCIOLOGY

GRADE 11-12, 1 TRIMESTER

1534

Sociology allows students to study human social behavior from a group perspective. The sociological perspective is a method of studying recurring patterns in people's attitudes and actions and how these patterns vary across time, cultures, and in social settings and groups. Students will describe the development of sociology as a social science and identify methods of research. Through research methods such as scientific inquiry students will examine society, group behavior, and social structures. The influence of culture on group behavior is addressed through institutions such as the family, religion, education, economics, community organizations, government, and political and social groups. The impact of social groups and institutions on group and individual behavior and the changing nature of society will be examined. Influences on group behavior and social problems are included in the course. Students will also analyze the role of individuals in the community and social problems in today's world.

- Prerequisite: Students need to have earned a C+ or higher in previous Social Studies courses, or instructor approval.
- *Counts as an Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas*

TOPICS IN HISTORY (THE 80'S)

GRADE 11-12, 1 TRIMESTER

1538

Topics in History provides students the opportunity to study specific historical eras, events, or concepts. Development of historical research skills using primary and secondary sources is emphasized. The course focuses on one or more topics or themes related to United States or world history.

- *Counts as an Elective for all diplomas*

TOPICS IN HISTORY (MUSIC IN AMERICA)

GRADE 11-12, 1 TRIMESTER

1538

Topics in History provides students the opportunity to study specific historical eras, events, or concepts. Development of historical research skills using primary and secondary sources is

emphasized. The course focuses on one or more topics or themes related to United States or world history.

- *Counts as an Elective for all diplomas*

UNITED STATES GOVERNMENT

GRADE 12, 1 TRIMESTER

1540

United States Government provides a framework for understanding the purposes, principles, and practices of constitutional representative democracy in the United States. Responsible and effective participation of citizens is stressed. Students will understand the nature of citizenship, politics, and governments and understand the rights and responsibilities of citizens and how these are part of local, state, and national government. Students will examine how the United States Constitution protects rights and provides the structure and functions of various levels of government. How the United States interacts with other nations and the government's role in world affairs will be examined. Using primary and secondary resources, students will articulate, evaluate, and defend positions on political issues. As a result, they will be able to explain the role of individuals and groups in government, political, and civic activities and the need for civic and political engagement of citizens in the United States.

- *Fulfills the Government requirement for all diplomas*

UNITED STATES HISTORY

GRADE 11, 2 TRIMESTERS

1542

United States History builds upon concepts developed in previous studies of U.S. History. Students are expected to identify and review significant events, persons, and movements in the early development of the nation. The course then gives major emphasis to the interaction of key events, people, and political, economic, social, and cultural influences in national developments from the late nineteenth century through the present. Students are expected to trace and analyze chronological periods and examine the significant themes and concepts in U.S. History. They will develop historical thinking and research skills and use primary and secondary sources to explore topical issues and to understand the cause for changes in the nation over time.

- *Fulfills the US History requirement for all diplomas*

West Central Cooperative Career and Technical Education Programs

ADVANCED MANUFACTURING I

GRADE 11-12, 3 TRIMESTERS-6 CREDITS

5608

Advanced Manufacturing I, is a course that includes classroom and laboratory experiences in two broad areas: Industrial Technology/Software Controls and Manufacturing Trends. Industrial Technology and Software Controls covers wiring and schematic diagrams used to design, install, and repair electrical/electronic equipment such as wireless communication devices, programmable controllers. Course content will include basic theories of electricity, electronics, digital technology, and basic circuit analysis. Activities include experiences in: soldering; use of an oscilloscope, meters, signal generators and tracers; breadboarding; circuit simulation software; and troubleshooting. Understanding and using the underlying scientific principles

related to electricity, electronics, circuits, sine waves, and Ohm's Law are integral to this course. Manufacturing Trends covers basic concepts in manufacturing operations and plant floor layout in the production environment. Applications of Computer Numerical Control (CNC), and lathe and turning operations are developed as a foundation for machining operations. Coordinate system concepts are introduced as relevant to machining processes, as well as fluid and mechanical power, welding, and lean manufacturing. Fluid power concepts will include hydraulic components and circuits, laws and principles, fluid power controllers, and the construction of systems. In the mechanical power portion of the course, students will learn about machine specifications, basic forces, friction, simple machines, motors, and motor controls. Students will also be introduced to lean manufacturing where they will study concepts including: lean goals, product quality, eliminating waste, cost effectiveness, lean concepts, resource planning, continuous improvement, and the various advantages of lean manufacturing. This course includes MSSC concepts required to earn MSSC certification.

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Located at Southmont HS; Student must have own transportation

ADVANCED MANUFACTURING II

GRADE 12, 3 TRIMESTERS-6 CREDITS

5606

Advanced Manufacturing II builds on classroom and lab experiences students experienced in Advanced Manufacturing I. Domains include safety and impact, drafting principles, manufacturing programming, CAD/CAM and CNC technologies, automation and robotics, and careers in advanced manufacturing. Hands-on projects and team activities will allow students to apply learning on the latest industry technologies. Students continue this course with the goal of being a skilled machine operator, repair technician, or management at any company that produces goods and services using advanced manufacturing techniques. Work-based learning experiences and industry partnerships are highly encouraged for an authentic industry experience.

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Located at Southmont HS; Student must have own transportation

AUTOMOTIVE SERVICES TECHNOLOGY I

GRADE 11-12, 3 TRIMESTERS-6 CREDITS

5510

Automotive Services Technology I is a one year course that encompasses the sub topics of the NATEF/ ASE identified areas of Steering & Suspension and Braking Systems. This one year course offering may be structured in a series of two topics per year offered in any combination of instructional strategies of semester based or yearlong instruction. Additional areas of manual transmissions and differentials, automatic transmissions, air conditioning, and engine repair should be covered as time permits. This one year offering must meet the NATEF program certifications for the two primary areas offered in this course. This course provides the opportunity for dual credit for students who meet postsecondary requirements for earning dual credit and successfully complete the dual credit requirements of this course. Mathematical skills will be reinforced through precision measuring activities and cost estimation/ calculation activities. Scientific principles taught and reinforced in this course include the study of viscosity, friction, thermal expansion, and compound solutions. Written and oral skills will also be emphasized to help students communicate with customers, colleagues, and supervisors.

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Located in downtown Crawfordsville; Student must have own transportation

AUTOMOTIVE SERVICES TECHNOLOGY II GRADE 12, 3 TRIMESTERS-6 CREDITS

5546

Automotive Services Technology II is a one year course that encompasses the sub topics of the NATEF/ASE identified areas of Electrical Systems and Engine Performance. This one year course offering may be structured in a series of two topics per year offered in any combination of instructional strategies of semester based or yearlong instruction. Additional areas of manual transmissions /differentials, automatic transmissions, air conditioning, and engine repair should be covered as time permits. This one-year offering must meet the NATEF program certifications for the two primary areas offered in this course. Mathematical skills will be reinforced through precision measuring activities and cost estimation/calculation activities. Scientific principles taught and reinforced in this course include the study of viscosity, friction, thermal expansion, and compound solutions. Written and oral skills will also be emphasized to help students communicate with customers, colleagues, and supervisors.

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Located in downtown Crawfordsville; Student must have own transportation

CONSTRUCTION TRADES: HVAC I GRADE 11-12, 3 TRIMESTERS-6 CREDITS

5496

Construction Trades: HVAC I include classroom and laboratory experiences focused on heat generation, ventilation, and cooling/refrigeration systems. This course introduces scientific and mathematical principles applicable in the installation, operation, and maintenance of HVAC systems. Types of units, parts, basic controls, functions, and applications will be covered. Additional topics include tool and meter use, temperature measurement, heat flow, the combustion process, and pipe installation practices. This course also emphasizes health, safety, and welfare standards and codes as mandated by professional and governmental agencies.

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Located at Crawfordsville HS; Student must have own transportation

CONSTRUCTION TRADES: HVAC II GRADE 12, 3 TRIMESTERS-6 CREDITS

5498

Construction Technology: HVAC II builds on concepts introduced in HVAC I. This course will emphasize reading blueprints and other technical documents, as well as troubleshooting common mechanical and electrical problems encountered when servicing HVAC systems. Additional topics include: combustion testing, venting and air requirements, electrical control systems, and electrical motor basics. Students will hone their science and math skills in HVAC system installation, maintenance, or repair projects

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Qualifies as a quantitative reasoning course
- Located at Crawfordsville HS; Student must have own transportation

COSMETOLOGY I/II GRADE 12, 3 TRIMESTERS-6 CREDITS

5802

Cosmetology I offers an introduction to cosmetology with an emphasis on basic practical skills and theories including roller control, quick styling, shampooing, hair coloring, permanent waving, facials, manicuring business and personal ethics, bacteriology, and sanitation. In the second semester greater emphasis is placed on the application and development of these skills.

- Students begin classes the summer after the Junior year and continue into the Senior year.
- Clock hours set by the State Licensing Board
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Students must have their own daily transportation to Christina and Company Education Center in Lafayette

CRIMINAL JUSTICE I

GRADE 11-12, 3 TRIMESTERS-6 CREDITS

5822

Criminal Justice I Introduces specialized classroom and practical experiences related to public safety occupations such as law enforcement, loss prevention services, and homeland security. This course provides an introduction to the purposes, functions, and history of the three primary parts of the criminal justice system as well as an introduction to the investigative process. Oral and written communication skills should be reinforced through activities that model public relations and crime prevention efforts as well as the preparation of police reports.

This course provides the opportunity for dual credit for students who meet postsecondary requirements for earning dual credit and successfully complete the dual credit requirements of this course.

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Located at Southmont HS; Student must have own transportation

CRIMINAL JUSTICE II

GRADE 12, 3 TRIMESTERS-6 CREDITS

5824

Criminal Justice II introduces students to concepts and practices in traffic control as well as forensic investigation at crime scenes. Students will have opportunities to use mathematical skills in crash reconstruction and analysis activities requiring measurements and performance of speed/acceleration calculations. Additional activities simulating criminal investigations will be used to teach scientific knowledge related to anatomy, biology, and chemistry as well as collection of evidence, developing and questioning suspects, and protecting the integrity of physical evidence found at the scene and while in transit to a forensic science laboratory. Procedures for the use and control of informants, inquiries keyed to basic leads, and other information-gathering activity and chain of custody procedures will also be reviewed.

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Located at Southmont HS; Student must have own transportation

EMERGENCY MEDICAL SERVICES

GRADE 12, 3 TRIMESTERS-6 CREDITS

5210

Emergency Medical Services prepares students for a state certification which may lead to a career in Emergency Medical Services. Examples of those careers include Emergency Medical Technician and Paramedic. This course is designed for persons desiring to perform emergency medical care. Theories, techniques, and operational aspects of pre-hospital emergency care, within the scope and responsibility of the basic emergency medical technician, are covered in this course. Students will learn to recognize the seriousness of the patient's condition, use the appropriate emergency care techniques and equipment to stabilize the patient, and safely transport them to the hospital. The handling of victims of hazardous materials accidents is also addressed in this course. Opportunities for laboratory practice and clinical observation in a

hospital emergency room and ambulance are also included to provide occasions for students to further develop clinical skills and the appropriate ethical behavior.

- Seniors Only, Southmont High School, 12:43 – 3:00
- Credits: 2 semester course, 3 credits per semester

FIRE AND RESCUE I

GRADE 11-12, 3 TRIMESTERS-6 CREDITS

5820

Firefighters are frequently the first emergency personnel at the scene of a traffic accident or medical emergency and may be called upon to put out a fire, treat injuries or perform other vital functions. This program requires diligence, teamwork, and acceptance of constructive criticism. During the first year of the program, students will receive instruction to prepare for the American Heart Association CPR, Hazardous Materials Awareness, Hazardous Materials Operations, Firefighter I, and Firefighter II certifications. In addition to classroom instruction, students will complete activities, skills training, and additional clinical experiences. Some clinical experiences may occur during time outside of the classroom.

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Located at Southmont HS; Student must have own transportation

FIRE AND RESCUE II

GRADE 12, 3 TRIMESTERS-6 CREDITS

5826

During the second year of Fire and Rescue, students will receive instruction to prepare for the Emergency Medical Technician (EMT) certification. In addition to classroom instruction, students will complete activities, skills training, and additional clinical experiences. Some clinical experiences may occur during time outside of the classroom.

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Located at Southmont HS; Student must have own transportation

HEALTH SCIENCE EDUCATION I

GRADE 11-12, 3 TRIMESTERS-6 CREDITS

5282

Health Science Education I is a course designed to provide a foundation of skills development to specific health careers including; patient care, dental care, animal care, medical laboratory, and public health. Students will also receive an introduction to healthcare systems, anatomy, physiology, and medical terminology. Laboratory experiences with industry applications are organized and planned around the activities associated with the student's career objectives. Job seeking and job maintenance skills, personal management skills, self-analysis to aid in career selection and completion of the application process for admission into a postsecondary program of their choice are also included in this course. Participation in HOSA encourages the development of leadership, communication and career related skills, and opportunities for community service.

- Prerequisites: Strong interest in a Health Career, Application Approval
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Located in Crawfordsville; Student must have own transportation

HEALTH SCIENCE EDUCATION II: NURSING GRADE 12, 3 TRIMESTERS-6 CREDITS

5284

Health Science Education II: Nursing is an extended laboratory experience designed to provide students with the opportunity to assume the role of nurse assistant. Students have the opportunity to practice technical skills previously learned in the classroom; all while working at the student's choice of clinical site and under the direction of licensed nurses. These sites may include extended care facilities, hospitals and home health agencies. Throughout the course, students will focus on learning about the healthcare system and employment opportunities at a variety of entry levels; an overview of the healthcare delivery systems, healthcare teams and legal and ethical considerations; and obtaining the knowledge, skills and attitudes essential for providing basic care in a variety of healthcare settings. Additionally, students will build their essential job related skills to record patient medical histories and symptoms; provide medication and treatments; consult with physicians and other healthcare providers; operate and monitor medical equipment; perform diagnostic tests; teach patients and families how to manage their illness or injury; and perform general health screenings. This course also provides students with the knowledge, attitudes, and skills needed to make the transition from school to work in health science careers. Students are encouraged to focus on self-analysis to aid in their career selection. Job seeking and job maintenance skills, personal management skills, and completion of the application process for admission into a post-secondary program are also areas of focus. Participation in HOSA encourages the development of leadership, communication and career related skills, and opportunities for community service.

- Prerequisites: Strong interest in a Health Career, Application Approval
- Counts as a Directed Elective or Elective for all diplomas
- Located in Crawfordsville; Student must have own transportation

HEALTH SCIENCE EDUCATION II: PHARMACY GRADE 12, 3 TRIMESTERS-3 CREDITS

5214

Health Science Education II: Pharmacy is an extended laboratory experience designed to provide students with the opportunity to assume the role of pharmacy technician and practice technical skills previously learned in the classroom; all while working at the student's choice of clinical site and under the direction of licensed pharmacists. These sites may include pharmacies found in grocery and drug stores, or in hospitals. Throughout the course, students will focus on learning about the healthcare system and employment opportunities at a variety of entry levels; an overview of the healthcare delivery systems, healthcare teams, and legal and ethical considerations; and obtaining the knowledge, skills and attitudes essential for providing basic care in a variety of healthcare settings. Additionally, students will build their essential job related skills to; record patient information, count tablets and measure medications, mix medications or ointments, package and label prescriptions, accept payment and process insurance claims, and do routine pharmacy tasks such as organizing medications, taking phone calls, cleaning, and customer service. This course also provides students with the knowledge, attitudes, and skills needed to make the transition from school to work in health science careers. Students are encouraged to focus on self-analysis to aid in their career selection. Job seeking and job maintenance skills, personal management skills, and completion of the application process for admission into a post-secondary program are also areas of focus. Participation in HOSA encourages the development of leadership, communication and career related skills, and opportunities for community service.

- Prerequisites: Strong interest in a Health Career, Application Approval
- Counts as a Directed Elective or Elective for all diplomas
- Online Class; Student must be self-motivated

PRECISION MACHINING I

GRADE 11-12, 3 TRIMESTERS-3 CREDITS

5782

Precision Machining I provides students with a basic understanding of the precision machining processes used in industry, manufacturing, maintenance, and repair. The course instructs the student in industrial safety, terminology, tools and machine tools, measurement and layout. Students will become familiar with the setup and operation of power saws, drill presses, lathes, milling machines, grinders and an introduction to CNC (computer controlled) machines.

- Counts as a Directed Elective or Elective for all diplomas
- Located in Lebanon; Student must have own transportation
- Qualifies as a Quantitative Reasoning course

RADIO AND TELEVISION I

GRADE 11-12, 3 TRIMESTERS-6 CREDITS

5986

Radio and Television I focuses on communication, media and production. Emphasis is placed on career opportunities, production, programming, promotion, sales, performance, and equipment operation. Students will also study the history of communication systems as well as communication ethics and law. Students will develop oral and written communication skills, acquire software and equipment operation abilities, and integrate teamwork skills. Instructional strategies may include a hands-on school-based enterprise, real and/or simulated occupational experiences, job shadowing, field trips, and internships.

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Located at Western Boone HS; Student must have own transportation

RADIO AND TELEVISION II

GRADE 12, 3 TRIMESTERS-6 CREDITS

5992

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.

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Located at Western Boone HS; Student must have own transportation

WELDING TECHNOLOGY I

GRADE 11-12, 3 TRIMESTERS-6 CREDITS

5776

Welding Technology I includes classroom and laboratory experiences that develop a variety of skills in oxy-fuel cutting and Shielded Metal Arc welding. This course is designed for individuals who intend to make a career as a Welder, Technician, Sales, Designer, Researcher or Engineer. Emphasis is placed on safety at all times. OSHA standards and guide lines endorsed by the American Welding Society (AWS) are used. Instructional activities emphasize properties of metals, safety issues, blueprint reading, electrical principles, welding symbols, and mechanical drawing through projects and exercises that teach students how to weld and be prepared for college and career success.

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Located at Fountain Central HS; Student must have own transportation
- Speak with your school counselor about course availability.

WELDING TECHNOLOGY II

GRADE 11-12, 3 TRIMESTERS-6 CREDITS

5778

Welding Technology II builds on the skills covered in Welding Technology I. Emphasis is placed on safety at all times. OSHA standards and guidelines endorsed by the American Welding Society (AWS) are used. Instructional activities emphasize properties of metals, safety issues, blueprint reading, electrical principles, welding symbols, and mechanical drawing through projects and exercises that teach students how to weld and be prepared for college and career success.

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Located at Fountain Central HS; Student must have own transportation
- Speak with your school counselor about course availability.

WORK BASED LEARNING

GRADE 12, 3 TRIMESTERS (6 CREDITS)

5974

Work Based Learning (WBL) is an instructional strategy that can be implemented as a stand-alone course or a component of any CTE course that prepares students for college and career. This strategy builds students' skills and knowledge in their chosen career path or furthers their study within their area of interest. A Standards Based Training Plan is developed by the student, teacher, and workplace mentor to guide the student's work based learning experiences and assist in evaluating achievement and performance, whether WBL is a standalone course or a component of a discipline-specific CTE course.

- Recommended Prerequisites: At least two courses in a student's pathway
- Counts as a Directed Elective or Elective for all diplomas

TECHNICAL CERTIFICATE IN BUSINESS ADMINISTRATION

GRADE 11-12, 3 TRIMESTERS

Eligible Juniors and Seniors will have the opportunity to take courses on the Ivy Tech Crawfordsville campus and work to fulfill the requirements for a technical certificate in business administration.

- Students must have eligible Accuplacer, PSAT, SAT, or ACT scores to participate.
- Students must have their own transportation to Ivy Tech Crawfordsville.
- Counselor approval required.
- Schedule below is subject to change but has been planned by Ivy Tech.
- Classes listed in bold represent high school credit awarded for the corresponding college course.
- Since Ivy Tech is on semesters; NMHS will adjust according to our trimester schedule.

YEAR 1

ADMINISTRATIVE & OFFICE MANAGEMENT (5268)

1 credit per semester/2 semesters

Ivy Tech Fall: BUSN 101, Introduction to Business, 3 Ivy Tech Credits
Ivy Tech Spring: BOAT 207 Integrated Microsoft Office Applications, 3 Ivy Tech Credits
IVYT 114 Student Success in Business, 1 Ivy Tech Credit

PRINCIPLES OF MARKETING (5914)

1 credit per semester/2 semesters

Ivy Tech Fall: MKTG101, Principles of Marketing, 3 Ivy Tech Credits
Ivy Tech Spring: BUSN 105, Principles of Management, 3 Ivy Tech Credits

ENGLISH 12 (1008)

1 credit per semester/1 semester

Ivy Tech Fall: ENGL 111, English Composition, 3 Ivy Tech Credits

PSYCHOLOGY (1532)

1 credit per semester/1 semester

Ivy Tech Spring: PSYC 101, Introduction to Psychology, 3 Ivy Tech Credits

YEAR 2

ADMINISTRATIVE & OFFICE MANAGEMENT (5268)

1 credit per semester/2 semesters

Ivy Tech Fall: BUSN 207, International Business, 3 Ivy Tech Credits

Ivy Tech Spring: BUSN 208, Organizational Behavior, 3 Ivy Tech Credits

BUSINESS LAW & ETHICS (4560)

1 credit per semester/2 semesters

Ivy Tech Fall: BUSN 120, Business Ethics and Social Responsibility, 3 Ivy Tech Credits

Ivy Tech Spring: BUSN 210, Business Law, 3 Ivy Tech Credits

TECHNICAL COMMUNICATION (1096)

1 credit per semester/1 semester

Ivy Tech Fall: BOAT 216, Business Communications, 3 Ivy Tech Credits

MACROECONOMICS, AP (1564)

1 credit per semester/1 semester

Ivy Tech Spring: ECON 201, Macroeconomics, 3 Ivy Tech Credits

WORLD LANGUAGES

FRENCH I

GRADE 9-12, 2 TRIMESTERS

2020

French I, a course based on *Indiana's Academic Standards for World Languages*, introduces students to effective strategies for beginning French language learning, and to various aspects of French-speaking culture. This course encourages interpersonal communication through speaking and writing, providing opportunities to make and respond to basic requests and questions, understand and use appropriate greetings and forms of address, participate in brief guided conversations on familiar topics, and write short passages with guidance. This course also emphasizes the development of reading and listening comprehension skills, such as reading isolated words and phrases in a situational context and comprehending brief written or oral directions. Additionally, students will examine the practices, products and perspectives of French-speaking culture; recognize basic routine practices of the target culture; and recognize and use situation-appropriate non-verbal communication. This course further emphasizes

making connections across content areas and the application of understanding French language and culture outside of the classroom.

- *Must have earned As and Bs in 8th grade English to take a World Language as a Freshman.*
- Fulfills a World Language requirement for the Core 40 with Academic Honors diploma or counts as a Directed Elective or Elective for any diploma

FRENCH II

GRADE 10-12, 2 TRIMESTERS

2022

French II, a course based on *Indiana's Academic Standards for World Languages*, builds upon effective strategies for French language learning by encouraging the use of the language and cultural understanding for self-directed purposes. This course 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, and write cohesive passages with greater independence and using appropriate formats. This course also emphasizes the development of reading and listening comprehension skills, such as using contextual clues to guess meaning and comprehending longer written or oral directions. Students will address the presentational mode by presenting prepared material on a variety of topics, as well as reading aloud to practice appropriate pronunciation and intonation. Additionally, students will describe the practices, products and perspectives of French-speaking culture; report on basic family and social practices of the target culture; and describe contributions from the target culture. This course further emphasizes making connections across content areas and the application of understanding French language and culture outside of the classroom.

- *Prerequisite: French I*
- Fulfills a World Language requirement for the Core 40 with Academic Honors diploma or counts as a Directed Elective or Elective for any diploma

FRENCH III

GRADE 11-12, 2 TRIMESTERS

2024

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. This course also emphasizes the continued development of reading and listening comprehension skills, such as using cognates, synonyms and antonyms to derive meaning from written and oral information, as well as comprehending detailed written or oral directions. Students will address the presentational mode by presenting student-created material on a variety of topics, as well as reading aloud to practice appropriate pronunciation and intonation. Additionally, students will continue to develop understanding of French-speaking culture through recognition of the interrelations among the practices, products and perspectives of the target culture; discussion of significant events in the target culture; and investigation of elements that shape cultural identity in the target culture. This course further emphasizes making connections across content areas as well the application of understanding French language and culture outside of the classroom.

- *Recommended Prerequisites: French I and II with C or better*
- Fulfills a World Language requirement for the Core 40 with Academic Honors diploma or counts as a Directed Elective or Elective for any diploma

FRENCH IV

GRADE 12, 2 TRIMESERS

2026

French IV, a course based on *Indiana's Academic Standards for World Languages*, provides a context for integration of the continued development of language skills and cultural understanding with other content areas and the community beyond the classroom. The skill sets that apply to the exchange of written and oral information are expanded through emphasis on practicing speaking and listening strategies that facilitate communication, such as the use of circumlocution, guessing meaning in familiar and unfamiliar contexts, and using elements of word formation to expand vocabulary and derive meaning. Additionally, students will continue to develop understanding of French-speaking culture through explaining factors that influence the practices, products, and perspectives of the target culture; reflecting on cultural practices of the target culture; and comparing systems of the target culture and the student's own culture. This course further emphasizes making connections across content areas through the design of activities and materials that integrate the target language and culture with concepts and skills from other content areas. The use and influence of the French language and culture in the community beyond the classroom is explored through the identification and evaluation of resources intended for native French speakers.

- *Recommended Prerequisites: French I, II and III with C or better*
- Fulfills a World Language requirement for the Core 40 with Academic Honors diploma or counts as a Directed Elective or Elective for any diploma

SPANISH I

GRADE 9-12, 2 TRIMESTERS

2120

Spanish I, a course based on *Indiana's Academic Standards for World Languages*, introduces students to effective strategies for beginning Spanish language learning, and to various aspects of Spanish-speaking culture. This course encourages interpersonal communication through speaking and writing, providing opportunities to make and respond to basic requests and questions, understand and use appropriate greetings and forms of address, participate in brief guided conversations on familiar topics, and write short passages with guidance. This course also emphasizes the development of reading and listening comprehension skills, such as reading isolated words and phrases in a situational context and comprehending brief written or oral directions. Additionally, students will examine the practices, products and perspectives of Spanish-speaking culture; recognize basic routine practices of the target culture; and recognize and use situation-appropriate non-verbal communication. This course further emphasizes making connections across content areas and the application of understanding Spanish language and culture outside of the classroom.

- *Recommended Prerequisites: Must have earned As and Bs in 8th grade English to take a World Language as a Freshman.*
- Fulfills a World Language requirement for the Core 40 with Academic Honors diploma or counts as a Directed Elective or Elective for any diploma

SPANISH II

GRADE 10-12, 2 TRIMESTERS

2122

Spanish II, a course based on *Indiana's Academic Standards for World Languages*, builds upon effective strategies for Spanish language learning by encouraging the use of the language and cultural understanding for self-directed purposes. This course 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, and write cohesive passages with greater independence and using appropriate formats. This course also emphasizes the development of reading and listening comprehension skills, such as using contextual clues to guess meaning and comprehending longer written or oral directions. Students will address the presentational mode by presenting prepared material on a variety of topics, as well as reading aloud to practice appropriate pronunciation and intonation. Additionally, students will describe the practices, products and perspectives of Spanish-speaking culture; report on basic family and social practices of the target culture; and describe contributions from the target culture. This course further emphasizes making connections across content areas and the application of understanding Spanish language and culture outside of the classroom.

- *Recommended Prerequisites: Spanish I*
- Fulfills a World Language requirement for the Core 40 with Academic Honors diploma or counts as a Directed Elective or Elective for any diploma

SPANISH III

GRADES 11-12, 2 TRIMESTERS

DUAL COLLEGE CREDIT: IVY TECH

2124

Spanish III, a course based on *Indiana's Academic Standards for World Languages*, builds upon effective strategies for Spanish 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. This course also emphasizes the continued development of reading and listening comprehension skills, such as using cognates, synonyms and antonyms to derive meaning from written and oral information, as well as comprehending detailed written or oral directions. Students will address the presentational mode by presenting student-created material on a variety of topics, as well as reading aloud to practice appropriate pronunciation and intonation. Additionally, students will continue to develop understanding of Spanish-speaking culture through recognition of the interrelations among the practices, products and perspectives of the target culture; discussion of significant events in the target culture; and investigation of elements that shape cultural identity in the target culture. This course further emphasizes making connections across content areas as well the application of understanding Spanish language and culture outside of the classroom.

- *Recommended Prerequisites: Spanish I and II with a C*
- Fulfills a World Language requirement for the Core 40 with Academic Honors diploma or counts as a Directed Elective or Elective for any diploma

SPANISH IV

GRADE 12, 2 TRIMESTERS

DUAL COLLEGE CREDIT: IVY TECH

2126

Spanish IV, a course based on *Indiana's Academic Standards for World Languages*, provides a context for integration of the continued development of language skills and cultural understanding with other content areas and the community beyond the classroom. The skill sets that apply to the exchange of written and oral information are expanded through emphasis on practicing speaking and listening strategies that facilitate communication, such as the use of circumlocution, guessing meaning in familiar and unfamiliar contexts, and using elements of word formation to expand vocabulary and derive meaning. Additionally, students will continue to develop understanding of Spanish-speaking culture through explaining factors that influence the practices, products, and perspectives of the target culture; reflecting on cultural practices of the target culture; and comparing systems of the target culture and the student's own culture. This

course further emphasizes making connections across content areas through the design of activities and materials that integrate the target language and culture with concepts and skills from other content areas. The use and influence of the Spanish language and culture in the community beyond the classroom is explored through the identification and evaluation of resources intended for native Spanish speakers.

- *Required Prerequisites: Spanish I, II and III with C*
- Fulfills a World Language requirement for the Core 40 with Academic Honors diploma or counts as a Directed Elective or Elective for any diploma

ADVISORY CLASSES

CAREER INFORMATION AND EXPLORATION

GRADE 10, FULL YEAR

0522

Career Information and Exploration provides students with opportunities to learn about themselves and about various traditional and nontraditional occupations and careers. Students also gain an awareness of the type of occupational preparation or training needed for various occupations and careers. Students develop skills in: (1) employability, (2) understanding the economic process, and (3) career decision making and planning. Opportunities are provided for students to observe and participate in various job situations through opportunities such as field trips, internships, mock interviews, and guest speakers. Resume development experience and career-related testing are also provided to students.

- Counts as a Directed Elective or Elective for all diplomas
- This course will take place during advisory period for all Sophomores.

COMMUNITY SERVICE

GRADE 12, FULL YEAR

0524

Community Service is a course created by public law IC 20-30-14, allowing juniors and seniors the opportunity to earn up to two high school credits for completion of approved community service projects or volunteer service that “relates to a course in which the student is enrolled or intends to enroll.” This class will supplement other senior courses.

- Counts as a Directed Elective or Elective for all diplomas
- This course will take place during advisory period for all Seniors.

PERSONAL FINANCIAL RESPONSIBILITY

GRADE 11, FULL YEAR

4540

Personal Financial Responsibility 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; identify sources of income, saving and investing; understand banking, budgeting, record-keeping and managing risk, insurance and credit card debt. A project based approach and applications through authentic settings such as work based observations and service learning experiences are appropriate. Direct, concrete applications of mathematics proficiencies in projects are encouraged.

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

- Meets Indiana's Financial literacy requirement (IC 20-30-5-19)
- This course will take place during advisory period for all Juniors.

PREPARING FOR COLLEGE AND CAREERS

GRADE 9, FULL YEAR

5394

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

- Counts as a Directed Elective or Elective for all diplomas
- This course will take place during advisory period for all Freshman.