

Marion High School Course Description Guide



2014-2015

TABLE OF CONTENTS

Marion High School Administration.....	3
Grade Point Average (GPA) Calculation.....	4
Weighted Grade Calculations.....	5
Weighted Courses.....	6
Advanced Placement Courses.....	7
Dual Credit Courses.....	8
Credit Earned Prior to 9 th Grade.....	10
Diploma Requirements.....	11
Qualifications for Valedictorian and Salutatorian.....	17
Core 40 Quantitative Reasoning Courses.....	18
Course Change Procedures.....	21
Business, Marketing, and Information Technology.....	22
Work-Based Learning.....	26
Engineering and Technology Education.....	28
English Language Arts.....	30
Family and Consumer Science.....	36
Fine Arts.....	37
Health and Physical Education.....	42
Mathematics.....	45
Multi-Disciplinary.....	48
Science.....	51
Social Studies.....	57
World Languages.....	62
College & Career Courses/ Tucker Career & Tech. Center.....	67

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Grade Point Average (GPA) Calculations

Grade point average for all students is determined by the adding the numerical value of each grade earned and dividing that sum by the number of classes attempted. Marion High School operates on a 4 point scale.

A = 4 points

B = 3 points

C = 2 points

D = 1 point

F = 0 points

Example: At the end of a student's 9th grade year they have attempted 14 classes, earning 3 A's, 5 B's, 3 C's, 2 D's and 1 F.

$$A - 3 \times 4 = 12$$

$$B - 5 \times 3 = 15$$

$$C - 3 \times 2 = 6$$

$$D - 2 \times 1 = 2$$

$$F - 1 \times 0 = 0$$

$$\text{TOTAL} = 35 \qquad 35 \text{ divided by } 14 = 2.5$$

Be aware that it becomes increasingly more difficult to affect the GPA later in high school because, as the number of credits increases, each semester's grade points have less of an effect. Therefore, it is very important to strive to do your very best and start out strong.

Weighted Grade Calculations

For students who have completed courses that are weighted, their GPA is adjusted using the following formula: A weighting factor of .2 is multiplied by the total number of weighted courses taken and then divided by the number of semesters completed. The quotient is added to the GPA established by the actual grades earned in all course work. Each semester the added weight is re-figured depending upon the total number of weighted courses completed up to that point.

Example: At the end of a student's 10th grade year they have earned 33 credits (4 in middle school, 28 in high school and 1 in summer school). They have 20 A's and 13 B's.

$$20 \times 4 = 80$$

$$13 \times 3 = 39$$

$$\text{TOTAL} = 119 \qquad 119 \text{ divided by } 33 = 3.60$$

6 credits were weighted: $6 \times .2 = 1.2$ extra weight

1.2 divided by 4 (number of semesters) = 0.3

$$3.60 + 0.3 = 3.9 \text{ GPA}$$

Special Note: Weighted grades will only be awarded for courses that have been offered and are available through Marion High School. Therefore, if a student transfers into Marion with weighted grades, only those courses listed as a Weighted Course for Marion High School would transfer in as a weighted grade.

Grades in AP classes are weighted. To receive the weighted grade a student MUST take the AP examination.

Weighted Courses

English Language and Composition, AP	Advanced Drawing – Dual Credit
Elementary Composition, ACP	Expository Writing
Literary Movements	Algebra II Honors
Calculus AB, AP	Adv. Math CC – College Algebra
Adv. Math CC – Trig w/ An. Geom.	Geometry Honors (10 th , 11 th , 12 th only)
Adv. Math CC – Statistics	Biology, AP
Biology II Honors	Chemistry I Honors
Chemistry II Honors – DC	Chemistry, AP
Physics B, AP	American History, ACP
World History, AP	Spanish III – Dual Credit
Adv. Soc. Studies CC – Intro to Am. Gov. and Pol	Spanish IV – Dual Credit
Spanish V Honors	Physics I
Environmental Science, AP	Literary Interpretation, ACP
AP Studio Art	Adv. Math CC – Finite Math
English Literature and Composition	

Grades in AP classes are weighted. To receive the weighted grade a student MUST take the AP examination.

Guidelines for Weighted Credit Transferring into Marion High School

Weighted grades will only be awarded for courses that have been offered and are available through Marion High School. Therefore, if a student transfers into Marion with weighted grades, only those courses listed as a Weighted Course for Marion High School would transfer in as a weighted grade.

Criteria for “Honors/Weighted” Courses

Marion High School has designated certain courses as “Honors/Weighted” when the course content is significantly more rigorous than the state approved course. Honors-level courses are standards-based, have defined criteria for student admission, clear expectations of student outcomes, and include a culminating honors project that reflects understanding of the Honors course content.

Advanced Placement Courses

AP World History – 10
AP Environmental Science
AP Chemistry
AP Biology
AP English Literature & Composition
AP United States History

AP English Language & Composition – 11
AP Physics B
AP Calculus
AP Studio Art
AP Statistics

Grades in AP classes are weighted. To receive the weighted grade a student **MUST** take the AP examination.

What are Advanced Placement (AP) Courses?

Through AP's college-level courses and exams, you can earn college credit and advanced placement. From the moment you enter an AP classroom, you'll notice the difference—in the teacher's approach to the subject, in the attitude of your classmates, in the way you start to think. In AP classrooms, the focus is not on memorizing facts and figures. Instead you'll engage in intense discussions, solve problems collaboratively, and learn to write clearly and persuasively. AP courses can help you acquire the skills and habits you'll need to be successful in college. You'll improve your writing skills, sharpen your problem-solving abilities, and develop time management skills, discipline, and study habits. Most four-year colleges in the United States and colleges in more than 60 other countries give students credit, advanced placement or both on the basis of AP Exam scores. By entering college with AP credits, you'll have the time to move into upper level courses, pursue a double-major or study abroad.

Is AP Considered Dual Credit?

Advanced Placement (AP) refers to courses and corresponding exams offered in the high school administered by the College Board. While AP courses are rigorous, they do not fit into the Indiana Commission for Higher Education's definition of dual credit, since AP courses are not offered by a college and do not automatically result in college credit.

However, starting with the 2011 AP exams, students who earn a score of 3 or higher **shall** receive college credit toward their degree at any Indiana public institution of higher education; this includes all two-year and four-year schools and any accompanying satellites. Indiana public institutions of higher education may require a score higher than 3 to award credit for a course that is part of a students' major, but the student will still receive elective credit that counts toward his/her overall degree requirements.

Indiana public institutions of higher education have detailed how each AP course and exam score will distribute within and outside of major fields. Information is available on the Transfer IN website: <http://www.transferin.net/ap.aspx> If the college or university that partners with a secondary school approves, it is permissible to allow both AP and Dual Credit to be taught by the same teacher in the same course section. However the student should earn either the AP course credit or the Dual Credit course credit (i.e. one course cannot count as two different courses for high school credit).

Dual Credit Courses

60 College Courses – 191 College Credits

MHS Course	College	College Course Name (credits)
Adv. Math CC - Statistics	Ivy Tech	STAT 301 Elementary Statistics (3)
Adv. Math CC – Finite Math	Ivy Tech	MATH 135 Finite Math
Adv. Math CC – College Algebra	Ivy Tech	MATH 136 College Algebra (3)
Adv. Math CC – Trig w/ Analytic Geom.	Ivy Tech	MATH 137 Trig w/ An. Geom. (3)
Adv. Math CC - Calculus	Ivy Tech	MATH 211 Calculus I (4)
Adv. SS CC – Intro to Am. Gov. and Pol.	Ivy Tech	POLS 101 Intro to Am. Gov. and Pol. (3)
Spanish III – DC	Ivy Tech	SPAN 101 Spanish Level 1 (3)
Spanish III – DC	Ivy Tech	SPAN 102 Spanish Level 2 (3)
Spanish IV – DC	Ivy Tech	SPAN 201 Spanish Level 3 (3)
Spanish IV – DC	Ivy Tech	SPAN 202 Spanish Level 4 (3)
Advanced Drawing	Ivy Tech	ARTS 100 Life/Object Drawing 1 (3)
Chemistry II Honors – DC	Ivy Tech	CHEM 101 Introductory Chemistry (3)
Elementary Composition ACP	IU	ENG W131 Elementary Composition (3)
Literary Interpretations ACP	IU	ENG L202 Literary Interpretations (3)
American History ACP	IU	H 105 American History I (3)
American History ACP	IU	H 106 American History II (3)
Graphic Imaging Technology	Vincennes	DESN 155 Computer Page Layout (3)
Computer Illustrations & Graphics	Vincennes	DESN 120 Computer Illustration (3)
Computer Programming (I or II)	Ivy Tech	CINT 106: Micro Operating Systems (3)
Computer Programming (I or II)	Ivy Tech	CINT 115: PC Technology Essentials (3)
Computer Tech Support	Ivy Tech	CINT 116: IT Technician (3)
Computer Tech Support	Ivy Tech	CINT 106: Micro Operating Systems (3)
Computer Tech Support	Ivy Tech	CINT 115: PC Technology Essentials (3)
Networking Fundamentals	Ivy Tech	CINT 121: Network Fundamentals (3)
Culinary Arts and Hospitality Management	Vincennes	REST 100 Intro to Hospitality Management (3)
Culinary Arts and Hospitality Management	Vincennes	CULN 110: Quantity Food Production (6)
Advanced Culinary Arts	Vincennes	REST 120 Food Service Sanitation (3)
Advanced Culinary Arts	Vincennes	REST 155 Quantity Food Purchasing (3)
Health Science Education I	Ivy Tech	HLHS 100 Intro to Health Careers (3)
Health Science Education I	Ivy Tech	HLHS 111 Health and Wellness for Life (3)
Health Science Education II: Nursing	Ivy Tech	HLHS 101 Medical Terminology (3)
Health Science Education II: Nursing	Ivy Tech	HLHS 107 CNA Preparation (5)
Health Science Education II: Pharmacy	Ivy Tech	HLHS 101 Medical Terminology (3)
Health Science Education II: Phy. Therapy	Ivy Tech	HLHS 101 Medical Terminology (3)
Health Science Education II: Phy. Therapy	Ivy Tech	PTAS 110 Physical Therapy Assisting I (3)
Health Science Education II: Phy. Therapy	Ivy Tech	PTAS 110 Physical Therapy Assisting II (3)
Health Science Education II: Phy. Therapy	Ivy Tech	PTAS 110 Physical Therapy Assisting III (3)
Automotive Services Technology I	Ivy Tech	AUTC 100: Intro to Transportation (3)
Automotive Services Technology I	Ivy Tech	AUTC 101: Steering and Suspension (3)
Automotive Services Technology II	Ivy Tech	AUTC 109: Engine Performance (3)
Automotive Services Technology II	Ivy Tech	AUTC 121: Braking Systems (3)
Automotive Services Technology II	Ivy Tech	AUTC 113: Electrical & Electronic I (3)
Automotive Collision Repair Technology I	Ivy Tech	AUBR 101 Body Repair I (3)
Automotive Collision Repair Technology II	Ivy Tech	AUBR 103 Automotive Paint Fundamentals (3)
Construction Technology I	Ivy Tech	CONT 101 Intro to Construction Technology (3)
Construction Technology I	Ivy Tech	CONT 102 Construction Materials (3)
Construction Technology I	Ivy Tech	CONT 106 Construction Blueprint Reading (3)
Construction Technology I	Ivy Tech	CONT 127 Electrical Basics (3)
Construction Technology II	Ivy Tech	BCOT 104 Floor & Wall Layout & Construction (3)
Construction Technology II	Ivy Tech	BCOT 105 Roof Construction (3)
Construction Technology II	Ivy Tech	BCOT 113 Interior Finish (3)

Construction Technology II	Ivy Tech	BCOT 114 Exterior Finish (3)
Emergency Medical Services	Ivy Tech	PARM 102 EMT Basic (3)
Emergency Medical Services	Ivy Tech	PSAF 120 First Responder (3)
Welding Technology I	Ivy Tech	INDT 114 Introduction to Welding (3)
Welding Technology I	Ivy Tech	WELD 100 Welding Processes (3)
Welding Technology I	Ivy Tech	WELD 103 ARC Welding (3)
Welding Technology I	Ivy Tech	WELD 108 Shielded Metal Arc Welding (3)
Welding Technology II	Ivy Tech	WELD 101 Gas Welding I (3)
Welding Technology II	Ivy Tech	WELD 109 Oxy-Fuel Gas Welding and Cutting (3)
Welding Technology II	Ivy Tech	WELD 207 Gas Metal Arc Welding (3)
Criminal Justice I	Vincennes	LAW 100 Survey of Criminal Justice (3)
Criminal Justice I	Vincennes	LAW 106 Introduction to Traffic Control (3)
Criminal Justice II	Vincennes	LAW 150 Introduction to Criminology (3)
Criminal Justice II	Vincennes	LAW 160 Criminal Investigations (3)
Architectural Drafting and Design I	Vincennes	ARCH 102 Architectural Drafting and Print Reading (4)
Architectural Drafting and Design II	Vincennes	ARCH 141 Introduction to Architectural CAD (3)
Civil Engineering Architecture (PLTW)	Vincennes	ARCH 221 Adv. Architectural Software Application (4)
Computer Integrated Manufacturing (PLTW)	Ivy Tech	ADMF 116 Automation & Robotics in Manufacturing I (3)
Introduction to Engineering Design (PLTW)	Ivy Tech	ADMF 103 Graphic Comm. for Manufacturing (3)
Principles of Engineering (PLTW)	Ivy Tech	ADMF 115 Materials & Processes for Manufacturing (3)
Early Childhood Education I	Ivy Tech	ECED 100 Introduction to Early Childhood (3)
Early Childhood Education I	Ivy Tech	ECED 101 Health, Safety, and Nutrition (3)
Early Childhood Education I	Ivy Tech	ECED 103 Curriculum in Early Childhood Ed (3)
Early Childhood Education II	Ivy Tech	ECED 105 CDA Process (3)
Education Professions I & II	Ivy Tech	ECED 101 Health Safety & Nutrition (3)
Education Professions I & II	Ivy Tech	EDUC 101 Intro to Teaching (3)

What is Dual Credit?

Dual credit is the term given to courses in which high school students have the opportunity to earn both high school and college credits. Dual credit courses are taught by high school faculty or college faculty either at the high school, at the college or university, or sometimes through online courses or distance education. Dual credit is offered by both state and independent (private, regionally accredited) colleges and universities.

What is the Core Transfer Library?

To enable you to transfer college credits, Indiana has developed the Core Transfer Library (CTL) – a list of courses that will transfer among all Indiana public college and university campuses, assuming adequate grades.

All Core Transfer Library courses will meet the general education or free elective requirements of undergraduate degree programs, and a significant majority of CTL courses will also count as one-on-one equivalents to courses taught at the college campus

Should I Take a Dual Credit Course if I Plan to Attend a Private or Out-of-State College?

Courses listed on the Core Transfer Library are only guaranteed to transfer to a public college in the State of Indiana. Therefore, students who plan to attend a private or out-of-state college are encouraged to directly communicate with those institutions to determine if dual credit will be accepted and how it will be awarded.

May I Sign Up for a Dual Credit Course Even if I Do Not Wish to Receive College Credit?

Yes. If a student knows that the college credit will not transfer to their future college and the student does not wish to pay for the college credit (IPFW and IU only), the student may still sign up for the course. However, students that make this decision will still be required to complete all of the same expectation as those that are enrolled in both the high school and college course.

Credit Earned Prior to Grade 9

Adoption Date: 5/26/2010, Revised: 4/24/2013

5000 - STUDENTS

5461 HIGH SCHOOL CREDITS EARNED PRIOR TO GRADE 9

In order to recognize its responsibility to provide students the opportunity to receive a maximum amount of credits for completion of course work leading to high school credit, the Marion School Board established the following policy and criteria regarding the application of credits earned prior to students entering ninth grade.

Credit for any high school course earned prior to ninth grade will count toward the required credits for graduation if the following conditions are met:

- A. The course content meets the competencies and proficiencies for the corresponding high school course which includes the Indiana Academic and Common Core Standards.
- B. Students must earn a semester grade of “C” or better to earn credit. Additionally, students must achieve a passing score on the End-of-Course Assessment if the course has a corresponding End of Course Assessment for credit to be awarded.
- C. The grade received by the student will be recorded on the transcript of the student and included in the student’s grade point average (GPA) for the class to count as a high school credit and count toward the diploma requirements.

NCAA eligibility rules provide that courses taken before Grade 9 may not be used to satisfy core curriculum requirements for college athletic eligibility.

Diploma Requirements

(For Students Graduating in 2014 or 2015)



Course and Credit Requirements	
English/ Language Arts	8 credits
	Including a balance of literature, composition and speech.
Mathematics	6 credits
	2 credits: Algebra I 2 credits: Geometry 2 credits: Algebra II <i>Or complete Integrated Math I, II, and III for 6 credits.</i> All students must complete a math or physics course in the junior or senior year.
Science	6 credits
	2 credits: Biology I 2 credits: Chemistry I or Physics I or Integrated Chemistry-Physics 2 credits: any Core 40 science course
Social Studies	6 credits
	2 credits: U.S. History 1 credit: U.S. Government 1 credit: Economics 2 credits: World History/Civilization or Geography/History of the World
Directed Electives	5 credits
	World Languages Fine Arts Career-Technical
Physical Education	2 credits
Health and Wellness	1 credit
Electives*	6 credits <small>(Career Academic Sequence Recommended)</small>
40 Total State Credits Required	

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

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

CORE40 with Academic Honors (minimum 47 credits)

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

- Complete all requirements for Core 40.
- Earn 2 additional Core 40 math credits
- Earn 6-8 Core 40 world language credits (6 credits in one language or 4 credits each in two languages).
- Earn 2 Core 40 fine arts credits.
- Earn a grade of a “C” or better in courses that will count toward the diploma.
- Have a grade point average of a “B” or better.
- Complete one of the following:
 - A. Complete AP courses (4 credits) and corresponding AP exams
 - B. Complete IB courses (4 credits) and corresponding IB exams
 - C. Earn a combined score of 1200 or higher on the SAT critical reading and mathematics
 - D. Score a 26 or higher composite on the ACT
 - E. Complete dual high school/college credit courses from an accredited postsecondary institution (6 transferable college credits)
 - F. Complete a combination of AP courses (2 credits) and corresponding AP exams and dual high school/college credit course(s) from an accredited postsecondary institution (3 transferable college credits)

CORE40 with Technical Honors (minimum 47 credits)

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

- Complete all requirements for Core 40.
- Complete a career-technical program (8 or more related credits)
- Earn a grade of “C” or better in courses that will count toward the diploma.
- Have a grade point average of a “B” or better.
- Recommended: Earn 2 additional credits in mathematics and 4-8 credits in World Languages for four year college admission.
- Complete two of the following, one must be A or B:
 - A. Score at or above the following levels on WorkKeys: Reading for Information - Level 6; Applied Mathematics - Level 6; Locating Information - Level 5
 - B. Complete dual high school/college credit courses in a technical area (6 college credits)
 - C. Complete a Professional Career Internship course or Cooperative Education course (2 credits)
 - D. Complete an industry-based work experience as part of a two-year career-technical education program (minimum 140 hours)
 - E. Earn a state-approved, industry-recognized certification

Diploma Requirements

(For Students Graduating in 2016 and Beyond)



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

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

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

CORE40 with Academic Honors *(minimum 47 credits)*

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

- Complete all requirements for Core 40.
- Earn 2 additional Core 40 math credits
- Earn 6-8 Core 40 world language credits (6 credits in one language or 4 credits each in two languages).
- Earn 2 Core 40 fine arts credits.
- Earn a grade of a “C” or better in courses that will count toward the diploma.
- Have a grade point average of a “B” or better.
- Complete one of the following:
 - A. Earn 4 credits in 2 or more AP courses and take corresponding AP exams
 - B. Earn 6 verifiable transcribed college credits in dual credit courses from priority course list
 - C. Earn two of the following:
 1. A minimum of 3 verifiable transcribed college credits from the priority course list,
 2. 2 credits in AP courses and corresponding AP exams,
 3. 2 credits in IB standard level courses and corresponding IB exams.
 - D. Earn a combined score of 1750 or higher on the SAT critical reading, mathematics and writing sections and a minimum score of 530 on each
 - E. Earn an ACT composite score of 26 or higher and complete written section
 - F. Earn 4 credits in IB courses and take corresponding IB exams.

CORE40 with Technical Honors *(minimum 47 credits)*

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

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

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, the following formal opt-out process must be completed:

- The student, the student’s parent/guardian, and the student’s counselor (or another staff member who assists students in course selection) must meet to discuss the student’s progress.
- The student’s Graduation Plan (including four year course plan) is reviewed.
- The student’s parent/guardian determines whether the student will achieve greater educational benefits by completing the general curriculum or the Core 40 curriculum.
- If the decision is made to opt-out of Core 40, the student is required to complete the course and credit requirements for a general diploma and the career/academic sequence the student will pursue is determined.

Course and Credit Requirements (Class of 2016 & Beyond)

English/Language Arts	8 credits Credits must include literature, composition and speech
Mathematics	4 credits 2 credits: Algebra I or Integrated Mathematics 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 course
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	6 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.

40 Total Credits Required

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

Indiana General High School Diploma

Beginning with students who enter high school in 2007–2008, the completion of Core 40 becomes 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, the following formal opt-out process must be completed:

- The student, the student’s parent/guardian, and the student’s counselor (or another staff member who assists students in course selection) must meet to discuss the student’s progress.
- The student’s Graduation Plan (including four year course plan) is reviewed.
- The student’s parent/guardian determines whether the student will achieve greater educational benefits by completing the general curriculum or the Core 40 curriculum.
- If the decision is made to opt-out of Core 40, the student is required to complete the course and credit requirements for a general diploma and the career/academic sequence the student will pursue is determined.

Course and Credit Requirements

English/Language Arts	8 credits
	Credits must include literature, composition and speech
Mathematics	4 credits
	2 credits: Algebra I or Integrated Mathematics I 2 credits: Any math course
Science	4 credits
	2 credits: Biology I 2 credits: Any science course (as long as at least one credit is 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 course
Physical Education	2 credits
Health and Wellness	1 credit
Career Academic Sequence Selecting electives in a deliberate manner to take full advantage of career exploration and preparation opportunities	6 credits
Flex Credit	5 credits
	To earn 5 Flex Credits a student must complete one of the following: <ul style="list-style-type: none"> • Additional courses to extend the career academic sequence • Courses involving workplace learning, which may include the following courses: <ul style="list-style-type: none"> ○ Career exploration internship ○ Professional career internship ○ Business cooperative experiences ○ Cooperative family and consumer sciences ○ Industrial cooperative education ○ Interdisciplinary cooperative education ○ Marketing field experience • High school/college dual credit courses • Additional courses in Language Arts, Social Studies, Mathematics, Science, World Languages or Fine Arts
Electives	6 credits
	Specifies the number of electives required by the state. High school schedules provide time for many more electives during the high school years.

40 Total State Credits Required

Qualifications for Valedictorian and Salutatorian

The students with the highest Grade Point Averages at the conclusion of their senior year will be awarded the designation of Valedictorian (highest GPA) and Salutatorian (second highest GPA). In order to qualify for these awards a student must have completed eight semesters of high school and must have been enrolled at Marion High School for at least the last four full semesters prior to graduation.

Guidelines for Credit Transferring into Marion High School

Students shall receive credit for all State Approved coursework earned from outside institutions. Students shall receive the same grade and credit for equivalent courses so long as the institution from which the student is transferring is fully accredited by:

1. A regional accreditation agency (i.e. AdvancED, NCA)

or

2. A state board of education

Core 40 Quantitative Reasoning Courses

All students that plan to graduate in 2016 and beyond must complete a Math or Quantitative Reasoning course each year they are enrolled in high school. The following courses satisfy the “Mathematics or quantitative reasoning course” in each year of high school for the **Core 40, AHD, and THD diplomas.**

Please note, this list comes from the Indiana Department of Education and therefore not all courses listed are available at Marion High School

Advanced Placement

Title/Description	Course Number
Biology, Advanced Placement	3020
Calculus AB, Advanced Placement	2562
Calculus BC, Advanced Placement	2572
Chemistry, Advanced Placement	3060
Computer Science A, Advanced Placement	4570
Environmental Science, Advanced Placement	3012
Macroeconomics, Advanced Placement	1564
Microeconomics, Advanced Placement	1566
Physics B, Advanced Placement	3080
Physics C, Advanced Placement	3088
Statistics, Advanced Placement	2570

Agriculture Education

Title/Description	Course Number
Advanced Life Science, Animals	5070
Advanced Life Science, Foods	5072
Agribusiness Management	5002
Landscape Management	5136

Business, Marketing, and Information Technology Education

Title/Description	Course Number
Accounting	4524
Business Math	4512
Computer Programming I	4634
Computer Programming II	5236
Computer Science A, Advanced Placement	4570

Computer Science Higher Level, International Baccalaureate	4584
Computer Science Standard Level, International Baccalaureate	4586
Global Economics	5070
Financial Services	5258

Engineering and Technology

TITLE/DESCRIPTION	COURSE NUMBER (PLTW)	COURSE NUMBER (non-PLTW)
Aerospace Engineering	4816	5518
Civil Engineering and Architecture	4820	5650
Computer Integrated Manufacturing	4810	5534
Digital Electronics	4826	5538
Engineering Design and Development	4828	5698
Principles of Engineering	4814	5644

Family and Consumer Sciences

Title/Description	Course Number
Advanced Life Science: Foods	5072

International Baccalaureate

Title/Description	Course Number
Chemistry Higher Level, International Baccalaureate	3070
Chemistry Standard Level, International Baccalaureate	3072
Computer Science Higher Level, International Baccalaureate	4584
Computer Science Standard Level, International Baccalaureate	4586
Economics Higher Level, International Baccalaureate	1580
Economics Standard Level, International Baccalaureate	1582
Further Mathematics Standard Level, International Baccalaureate	2580
Mathematical Studies Standard Level, International Baccalaureate	2586
Mathematics Higher Level, International Baccalaureate	2582
Mathematics Standard Level, International Baccalaureate	2584
Physics Higher Level, International Baccalaureate	3096
Physics Standard Level, International Baccalaureate	3098

Science

Title/Description	Course Number
Biology, Advanced Placement	3020
Chemistry I	3064

Chemistry II	3066
Chemistry, Advanced Placement	3060
Chemistry Higher Level, International Baccalaureate	3070
Chemistry Standard Level, International Baccalaureate	3072
Environmental Science, Advanced Placement	3012
Integrated Chemistry-Physics	3108
Physics I	3084
Physics II	3086
Physics B, Advanced Placement	3080
Physics C, Advanced Placement	3088
Physics Higher Level, International Baccalaureate	3096
Physics Standard Level, International Baccalaureate	3098

Social Studies

Title/Description	Course Number
Economics	1514
Economics Higher Level, International Baccalaureate	1580
Economics Standard Level, International Baccalaureate	1582
Macroeconomics, Advanced Placement	1564
Microeconomics, Advanced Placement	1566

Trade and Industrial Education

Title/Description	Course Number
Advanced Manufacturing II	5606
Architectural Drafting and Design II	5652
Construction Technology: Electrical II	4832
Construction Technology: HVAC II	5498
Electronics and Computer Technology II	5694
Mechanical Drafting and Design II	4838
Precision Machining I	5782
Precision Machining II	5784

Course Change Procedures

Valid reasons for changing a course:

- Schedule Conflicts
- Physical inability to take a class due to accident or illness
- A faculty member may initiate a change if, in the opinion of the faculty member, a student is inappropriately placed
- Extenuating circumstances

Requests that will not be honored include:

- Teacher Preference
- Period Preference

Course Change Procedure – Beginning 1st Day of School:

Student must pick up the Course Change form from his/her guidance counselor and discuss the reason(s) for the request.

Drop/Add timetable:

- Week 1 - No record or grade
- Week 2 THROUGH 1st midterm - Grade of “W” with no effect on GPA
- After 1st midterm - WF-withdraw/fail, counts as an F on GPA

All requests initiated after week 1, student will only be allowed to add a study hall or take credit recovery in place of dropped class.

Students enrolling in yearlong courses are expected to remain in those courses for the entire year unless there is a clear indication that the student is failing the course at the end of the semester and the teacher/counselor recommends that the student not continue.

Business, Marketing, and Information Technology Education

(Special Note: Business students in grades 11 & 12 are encouraged to participate in the Young Entrepreneurship Program where teams develop a new business plan and compete against students from other Grant County Schools. Prizes are awarded to winning teams and students may win up to a \$2000 scholarship and an iPad.)

PRINCIPLES OF BUSINESS MANAGEMENT

4562 **Two Semesters** **2 credits**

Replaces Business, Management, and Finance

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 Grade Level: Grade 10-12
- Recommended Prerequisites: Preparing for College and Careers
- Credits: 1 credit per semester, maximum of 2 semesters, maximum of 2 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

PRINCIPLES OF MARKETING

5914 **Two semesters** **2 credits**

Replaces Entrepreneurship Academy PM

Principles of Marketing provide a basic introduction to the scope and importance of marketing in the global economy. Emphasis is placed on oral and written communications, mathematical applications, problem solving, and critical thinking skills as they relate to advertising/promotion/selling, distribution, financing, marketing-information management, pricing, and product/service management.

- Recommended Grade Level: Grade 10-12
- Recommended Prerequisites: None
- Credits: 1 credit per semester, maximum of 2 semesters, maximum of 2 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

PREPARING FOR COLLEGE AND CAREERS

5394 **One semester** **1 credit**

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.

- Recommended Grade Level: 9
- Recommended Prerequisites: none
- 1 credit per semester
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Required Course for all Career Pathways

BUSINESS LAW AND ETHICS

4560 **Two Semesters** **2 credits**

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.

- Recommended Grade Level: 10-12
- Recommended Prerequisites: none
- 1 credit per semester, maximum of 2 semesters, maximum of 2 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

ENTREPRENEURSHIP AND NEW VENTURES

5966 **Two Semesters** **2 credits**

Entrepreneurship and New Ventures introduces entrepreneurship, and develop skills and tools critical for starting and succeeding in a new venture. The entrepreneurial process of opportunity recognition, innovation, value proposition, competitive advantage, venture concept, feasibility analysis, and “go to” market strategies will be explored through mini case studies of successful and unsuccessful entrepreneurial start-ups. Additionally, topics of government and legal restrictions, intellectual property, franchising location, basic business accounting, raising startup funding, sales and revenue forecasting and business plan development will be presented through extensive use of word processing, spreadsheet and presentation software.

- Recommended Grade Level: 11-12
- Recommended Prerequisites: Principles of Marketing or Principles of Business Management
- 1 credit per semester, maximum of 2 semesters, maximum of 2 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

WEB DESIGN

4574 **One Semester** **1 credit**

Web Design is a 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 include peer teaching, collaborative instruction, project-based learning activates and school community projects.

- Recommended Grade Level: 10-12
- Recommended Prerequisites: IT Essentials or Information Communication Technology
- 1 credit per semester
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

FINANCIAL SERVICES

5258 **Two Semesters** **2 credits**

Replaces Finance Academy II – Accounting II

Financial Services provides instruction in finance and business fundamentals as they relate to financial institutions, financial planning, business and personal financial services, investment and securities, risk management, and corporate finance. Students are provided opportunities to develop attitudes and apply skills and knowledge in the area of finance.

- Recommended Grade Level: 11-12
- Recommended Prerequisites: Algebra II, Accounting or Principles of Business Management, Preparing for College and Careers
- 1 credit per semester, maximum of 2 semesters, maximum of 2 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

ACCOUNTING

4524 **Two Semester** **2 credits**

Replaces Accounting I – Finance Academy I

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.

- Recommended Grade Level: Grade 10-12
- Recommended Prerequisites: None
- Credits: 1 credit per semester, maximum of 2 semesters, maximum of 2 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

SPORTS & ENTERTAINMENT MARKETING

5984 **Two Semesters** **2 credits**

Sports and Entertainment Marketing 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 Grade Level: Grade 10-12
- Recommended Prerequisites: Principles of Marketing
- 1 credit per semester, maximum of 2 semesters, maximum of 2 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

INFORMATION COMMUNICATIONS TECHNOLOGY

4528 **Two Semesters** **2 credits**

Replaces Computer Applications – Business Tech Lab I – IT Essentials

Information Communication Technology introduces students to the physical components and operation of computers. Technology is used to build students decision-making and problem-solving skills. Students completing this course will have an opportunity to earn dual credit (see below) and an MOS Certificate for Word 2010.

- Recommended Grade Level: Grade 9-12
- Recommended Prerequisites: Preparing for College and Careers
- 1 credit per semester, maximum of 2 semesters, maximum of 2 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

COMPUTER ILLUSTRATIONS & GRAPHICS

4516 **Two Semesters** **2 credits**

Replaces Adv. Comp. Applications – Business Tech Lab II

Computer Illustration and Graphics introduces students to the computer's use in visual communication. The focus of the course is on basic computer terminology and use, mastering fundamental skills, and developing efficient working styles. These skills are then developed by creating work with imaging, drawing, interactive, and page layout software. The course includes organized learning experiences that incorporate a variety of visual art techniques as they relate to the design and execution of layouts and illustrations for advertising, displays, promotional materials, and instructional manuals. Instruction also covers advertising theory and preparation of copy, lettering, posters, produce vector illustrations, graphics and logos, and artwork in addition to incorporation of photographic images. Communication skills will be emphasized through the study of effective methods used to design products that impart information and ideas. Advanced instruction might also include experiences in silk screening and air brush techniques as well as activities in designing product packaging and commercial displays or exhibits.

- Recommended Grade Level: Grade 9-12
- Recommended Prerequisites: Preparing for College and Careers, IT Essentials

- 1 credit per semester, maximum of 2 semesters, maximum of 2 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

COMPUTER TECH SUPPORT

5230 Two Semesters/3 Periods 6 credits

Replaces IT: Information Support and Services

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.

- Recommended Grade Level: Grade 11-12
- Recommended Prerequisites: IT Essentials
- 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 housed at Tucker Career and Technical Center
- Dual Credit – Ivy Tech: CINT 116 IT Technician (3 credits)

INTERACTIVE MEDIA

5232 Two Semesters 2 credits

Interactive Media prepares students for careers in business and industry working with interactive media products and services; which includes the entertainment industries. This course emphasizes the development of digitally generated or computer-enhanced products using multimedia technologies. Students will develop an understanding of professional business practices including the importance of ethics, communication skills, and knowledge of the “virtual workplace”. Students will learn to create presentations in PowerPoint and Prezi and will have an opportunity to earn dual credit and a MOS Certificate in PowerPoint 2010. Additionally, students will create the Giant News Network (GNN) episodes that will air weekly.

- Recommended Grade Level: Grade 9-12
- Recommended Prerequisites: IT Essentials
- 1 credit per semester, maximum of 2 semesters, maximum of 2 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

Work Based Learning

WORK BASED LEARNING

5974

Two to Three Semesters

Max. of 6 credits

Work Based Learning is a unique educational strategy that combines experiential learning with related classroom instruction in a career cluster/pathway directly related to a student's academic preparation and career objectives. The philosophy of Work Based Learning recognizes that classroom learning provides only part of the skills and knowledge students will need to succeed in college or their career. By creating opportunities to learn in the workplace, schools can help students develop and refine occupational competencies (attitudes, skills, and knowledge) needed to be college and career ready.

The fundamental purpose of work based learning is to provide students with opportunities to learn in real-world environments. These experiences must be related to the students' academic and career cluster/pathway goals.

Ideally, the students' placement assignments and areas of responsibility should broaden as they gain experience and increased responsibilities should occur as further education and training are attained.

Work Based Learning programs are a joint effort between the school and community. Program success depends upon mutual support. Advisory committees composed of business, industry, and/or labor partners assist in determining general program operating policies and procedures, participate in curriculum review and revision, and assist in promoting the program in the community.

- Recommended Grade Level: Grade 12
- Required Prerequisites: Preparing for College and Careers; 4 credits of introductory and advanced courses related to a student's pathway
- Credits: 2-3 credits per semester, 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

Engineering and Technology Education

INTRODUCTION TO ENGINEERING DESIGN, PLTW

4812 Two Semesters 2 credits

Introduction to Engineering Design is an introductory course which develops student problem solving skills using the design process. Students document their progress of solutions as they move through the design process. Students develop solutions using elements of design and manufacturability concepts. They develop hand sketches using 2D and 3D drawing techniques. Computer Aided Design (CAD).

- Recommended Grade Level: Grade 9-12
- Recommended Prerequisites: none
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

PRINCIPLES OF ENGINEERING, PLTW

4814 Two Semesters 2 credits

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 Grade Level: Grade 9-12
- Recommended Prerequisites: Introduction to Engineering Design
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

CIVIL ENGINEERING AND ARCHITECTURE, PLTW

4820 Two Semesters 2 credits

Civil Engineering and Architecture introduces students to the fundamental design and development aspects of civil engineering and architectural planning activities. Application and design principles will be used in conjunction with mathematical and scientific knowledge. Computer software programs should allow students opportunities to design, simulate, and evaluate the construction of buildings and communities. During the planning and design phases, instructional emphasis should be placed on related transportation, water resource, and environmental issues. Activities include the preparation of cost estimates as well as a review of regulatory procedures that would affect the project design..

- Recommended Grade Level: Grade 10-12
- Recommended Prerequisites: Principles of Engineering, Introduction to Engineering and Design
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Dual Credit – Vincennes: ARCH 221 Advanced Architectural Software Applications (4 credits)

COMPUTER INTEGRATED MANUFACTURING

4810 Two Semesters 1 credit per semester

Computer Integrated Manufacturing is a course that applies principles of rapid prototyping, robotics, and automation. This course builds upon the computer solid modeling skills developed in Introduction of Engineering Design. Students will use computer controlled rapid prototyping and CNC equipment to solve problems by constructing actual models of their three-dimensional designs. Students will also be introduced to the fundamentals of robotics and how this equipment is used in an automated manufacturing environment. Students will evaluate their design solutions using various techniques of analysis and make appropriate modifications before producing their prototypes.

- Recommended Grade Level: Grade 10-12

Updated 3/7/2014

- Recommended Prerequisites: Introduction to Engineering Design, Principles of Engineering
- Credits: 1 credit per semester, 2 semesters maximum, maximum of 2 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
- This course is aligned with postsecondary courses for Dual Credit
- Qualifies as a Quantitative Reasoning course for the General, Core 40, AHD, and THD diplomas

English/Language Arts

ENGLISH 9

1002 **Two Semesters** **2 credits**

English 9 is a study of language, literature, composition, and oral communication with a focus on exploring a wide-variety of genres and their elements. Students use literary interpretation, analysis, comparisons, and evaluation to read and respond to representative works of historical or cultural significance appropriate for Grade 9 in classic and contemporary literature balanced with nonfiction. Students write short stories, responses to literature, expository and persuasive compositions, research reports, business letters, and technical documents. Students deliver grade-appropriate oral presentations and access, analyze, and evaluate online information.

- Recommended Grade Level: Grade 9
- Recommended Prerequisites: None
- Fulfills an English/Language Arts requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

ENGLISH 9 HONORS

1002-H **Two Semesters** **2 credits**

In addition to the description above, Honors English 9 moves beyond the basic requirements and is more rigorous in its expectations. In contrast to English 9 which concentrates on identification and application, English 9 Honors stresses analytical skills and requires an understanding of both the content and structural form of texts. The selected literature is challenging or beyond grade level and students will focus on an explication of a variety of literature. In composition, students are required to write for various audiences and purposes while enhancing already developed skills in paragraph and multi-paragraph writing. These skills include (1) mastery of the essay as a formal structure with a thesis statement and supporting paragraphs; (2) an appropriate organizational structure for a complex body of information; and (3) an effective adaptation of language and tone to task and reader. Using technology, students receive instruction and practice in the writing process. The oral communication (speech) component of this course allows student to examine the complex connections between components of language arts. Students are expected to take original imaginative approaches to presentations and to be critical/analytical participants and listeners.

- Recommended Grade Level: Grade 9
- Recommended Prerequisites: None
- Fulfills an English/Language Arts requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

ENGLISH 10

1004 **Two Semesters** **2 credits**

English 10 is a study of language, literature, composition, and oral communication with a focus on exploring universal themes 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 appropriate for Grade 10 in classic and contemporary literature balanced with nonfiction. Students write short stories, responses to literature, expository and persuasive compositions, research reports, business letters, and technical documents. Students deliver grade-appropriate oral presentations and access, analyze, and evaluate online information.

- Recommended Grade Level: Grade 10
- Recommended Prerequisites: English 9
- Fulfills an English/Language Arts requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

ENGLISH 10 HONORS

1004-H **Two Semesters** **2 credits**

English 10 Honors moves beyond the requirements of English 10 and is more rigorous in its expectations. English 10 Honors stresses analytical skills that require understanding of both the content and the structure of texts. Students will focus on critiquing and explicating a variety of literature covering different genres. Students will also be required to read longer narratives such as novels. The pace of the course will be much faster and the evaluation of the course will be more rigorous than English 10. In composition, students are required to write for various audiences and purposes while enhancing already developed skills in paragraph and multi-paragraph writing. These

skills include (1) mastery of the essay as a formal structure with a thesis statement and supporting paragraphs; (2) an appropriate organizational structure for a complex body of information; and (3) an effective adaptation of language and tone to task and reader. Using technology, students receive instruction and practice in the writing process. The oral communication (speech) component of this course allows student to examine the complex connections between components of language arts. Students are expected to take original imaginative approaches to presentations and to be critical/analytical participants and listeners.

- Recommended Grade Level: Grade 10
- Recommended Prerequisites: English 9 Honors or teacher recommendation
- Fulfills an English/Language Arts requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

ENGLISH 11

1006 Two Semesters 2 credits

English 11 is a study of language, literature, composition, and oral communication with a focus on exploring characterization across universal themes and 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 appropriate for Grade 11 in classic and contemporary literature balanced with nonfiction. Students write fictional narratives, short stories, responses to literature, reflective compositions, historical investigation reports, resumes, and technical documents incorporating visual information in the form of pictures, graphs, and tables. Students write and deliver grade-appropriate multimedia presentations and access, analyze, and evaluate online information.

- Recommended Grade Level: Grade 11
- Recommended Prerequisites: English 10
- Fulfills an English/Language Arts requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

ENGLISH 11 HONORS

1006-H Two Semesters 2 credits

English 11 Honors moves beyond the requirements of English 11 and is more rigorous in its expectations. English 11 Honors stresses analytical skills that require understanding of both the content and the structure of texts. Students will focus on critiquing and explicating a variety of literature covering different genres that are focused on American Literature. Students will also be required to read longer narratives such as novels. The pace of the course will be much faster and the evaluation of the course will be more rigorous than English 11. In composition, students are required to write for various audiences and purposes while enhancing already developed skills in paragraph and multi-paragraph writing. These skills include (1) mastery of the essay as a formal structure with a thesis statement and supporting paragraphs; (2) an appropriate organizational structure for a complex body of information; and (3) an effective adaptation of language and tone to task and reader. Using technology, students receive instruction and practice in the writing process. The oral communication (speech) component of this course allows student to examine the complex connections between components of language arts. Students are expected to take original imaginative approaches to presentations and to be critical/analytical participants and listeners.

- Recommended Grade Level: Grade 11
- Recommended Prerequisites: English 10 Honors or teacher recommendation
- Fulfills an English/Language Arts requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

ENGLISH 12

1008 Two Semesters 2 credits

English 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 for Grade 12 in classic and contemporary literature balanced with nonfiction. Students write fictional narratives, short stories, responses to literature, reflective compositions, historical investigation reports, resumes and technical documents incorporating visual information in the form of pictures, graphs, and tables. Students write and deliver grade-appropriate multimedia presentations and access, analyze, and evaluate online information.

- Recommended Grade Level: Grade 12
- Recommended Prerequisites: English 11

- Fulfills an English/Language Arts requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

ENGLISH 12 HONORS

1008-H **Two Semesters** **2 credits**

English 12 Honors moves beyond the requirements of English 11 and is more rigorous in its expectations. English 12 Honors stresses analytical skills that require understanding of both the content and the structure of texts. Students will focus on critiquing and explicating a variety of literature covering different genres that are focused on British Literature. Students will also be required to read longer narratives such as novels. The pace of the course will be much faster and the evaluation of the course will be more rigorous than English 12. In composition, students are required to write for various audiences and purposes while enhancing already developed skills in paragraph and multi-paragraph writing. These skills include (1) mastery of the essay as a formal structure with a thesis statement and supporting paragraphs; (2) an appropriate organizational structure for a complex body of information; and (3) an effective adaptation of language and tone to task and reader. Using technology, students receive instruction and practice in the writing process. The oral communication (speech) component of this course allows student to examine the complex connections between components of language arts. Students are expected to take original imaginative approaches to presentations and to be critical/analytical participants and listeners.

- Recommended Grade Level: Grade 12
- Recommended Prerequisites: English 11 Honors or teacher recommendation
- Fulfills an English/Language Arts requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

ENGLISH LANGUAGE AND COMPOSITION, ADVANCED PLACEMENT

1056 **Two Semesters** **2 credits**

AP English Language and Composition engages students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Through reading and writing, students become aware of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way genre conventions and the resources of language contribute to effectiveness in writing. The purpose of the AP English Language and Composition course is to enable students to read complex texts with understanding and to write prose of sufficient richness and complexity to communicate effectively with mature readers. This course will help students move beyond programmatic responses such as the five-paragraph essay and encourage them to place their emphasis on content, purpose, and audience while allowing the focus to guide the organization of their writing (College Board)

- Recommended Grade Level: Grade 11
- Recommended Prerequisites: English 9 Honors and English 10 Honors or teacher recommendation
- Fulfills an English/Language Arts requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

ENGLISH LITERATURE AND COMPOSITION, ADVANCED PLACEMENT

1058 **Two Semesters** **2 credits**

English Literature and Composition, Advanced Placement, is an advanced placement course based on content established by the College Board. An AP English course in Literature and Composition engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style, and themes as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. The course includes intensive study of representative works from various genres and periods, concentrating on works of recognized literary merit.

- Recommended Grade Level: Grade 12
- Recommended Prerequisites: : English 9 Honors, English 10 Honors, English Language and Composition, AP or teacher recommendation
- Fulfills an English/Language Arts requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

ETYMOLOGY

1060 **One Semester** **1 credit**

Etymology is the study and application of the derivation of English words and word families from their roots in ancient and modern languages (Latin, Greek, Germanic, and Romance Languages). Students analyze meanings of English words by examining roots, prefixes, suffixes. Students analyze the connotative and denotative meaning of words in a variety of contexts and the reasons for language change. Students write about word history and semantics in texts that require etymological sensitivity, such as Renaissance poetry or works in translation. **ETYMOLOGY PROJECT:** Students complete a project, such as doing a case study on specific words or creating an historical timeline of the development of specific words, which demonstrates knowledge, application, and progress in Etymology course content.

- Recommended Grade Level: Grades 11 or 12
- Recommended Prerequisites: None
- Credits: 1 credit
- Fulfills an English/Language Arts requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- NOTE: Students are strongly encouraged to combine this course with a literature or composition course that they take before, concurrently, or after the course.

EXPOSITORY WRITING

1094 **Fall Semester** **1 credit**

Expository Writing is a study and application of the various types of informational writing intended for a variety of different audiences. Using the writing process, students demonstrate a command of vocabulary, English language conventions, research and organizational skills, an awareness of the audience, the purpose for writing, and style. **EXPOSITORY WRITING PROJECT:** Students complete a project, such as an extended essay or report explaining the main idea or thesis by using the expository strategies of classification, illustration by example, definition, comparison and contrast, process analysis (descriptions or explanations that provide instructions for the reader), cause and effect, definitions, or some combination of these strategies, which demonstrates knowledge, application, and writing progress in the Expository Writing course content.

- Recommended Grade Level: Grade 10
- Recommended Prerequisites: English 9 Honors or teacher recommendation
- Credits: 1 credit
- Fulfills an English/Language Arts requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- NOTE: Students are strongly encouraged to combine this course with Literary Movements (1040)

LITERARY MOVEMENTS

1040 **Spring Semester** **1 credit**

Literary Movements is a study of representative European or American literature produced during the historical time periods of Ancient Greece and Rome, the Middle Ages, the Renaissance, the Enlightenment, and the literary periods of Romanticism, Realism, Modernism, The Harlem Renaissance, and Contemporary Literature. Students examine a variety of literary genres, such as dramas, epic and lyric poetry, novels, oratory, short stories, biographies, journals, diaries, essays, and others. Students analyze how the trends and movements shaped the literature of the time and how the works of the various literary trends and movements continue to affect contemporary literature and issues.

- Recommended Grade Level: Grades 10
- Recommended Prerequisites: English 9 or teacher recommendation
- Fulfills an English/Language Arts requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- NOTE: Students are strongly encouraged to combine this course with Expository Writing (1094)

ELEMENTARY COMPOSITION ACP

W131 **Fall Semester** **1 credit**

Elementary Composition, is a one-semester course that offers instruction and practice in the critical reading and writing skills required for college-level work, with an emphasis on written assignments that call for summary, critique, analysis, and arguments based on sources.

This course offers instruction and practice in the reading, writing, and critical thinking skills required in college. Emphasis is on written assignments that require synthesis, analysis, and argument based on sources. This is a college course. The purpose of this course is to prepare students for the rigor of writing throughout college. The focus is on scholarly investigation of sources, critical thinking and reading, learning how to recognize and utilize specific writing strategies, skills and fluency. Each unit will include preliminary work and assignments leading to a major essay to conclude.

- Recommended Grade Level: Grade 12
- Recommended Prerequisites: : English 9 Honors, English 10 Honors, English 11 Honors or teacher recommendation
- Fulfills an English/Language Arts requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Dual Credit – IU: ENG W131 Elementary Composition (3 credits – 1st Semester);

LITERARY INTERPRETATIONS ACP

L202 Spring Semester 1 credit

Literary Interpretation is designed to help students learn how to read, think, and write critically and cogently about literature. Students will study four genres—poetry, short story, the novel, and drama—to understand how the various elements of a work of imaginative literature cohere to impart meaning.

A large portion of the course will focus on how to write; students will learn how to translate close reading skills into strong critical essays, writing four peer-reviewed major papers, as well as short assignments (micro themes) and quizzes. The class will be heavily discussion-based, and vigorous and insightful explorations of the poetry and fiction studied is expected. This is a college course. The purpose of this course is to prepare students for the rigor of reading and writing throughout college.

- Recommended Grade Level: Grade 12
- Recommended Prerequisites: : English 9 Honors, English 10 Honors, English 11 Honors or teacher recommendation
- Fulfills an English/Language Arts requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Dual Credit -IU: ENG L202 Literary Interpretation (3 credits – 2nd semester)

JOURNALISM

1080 Two Semesters 2 credits

Journalism is a study of communications history including the legal boundaries and the ethical principles that guide journalistic writing. It includes a comparison study of journalistic writing to other types of writing. Students prepare for a career path in journalism by working on high school publications or media staffs. **JOURNALISM PROJECT** for the second credit: Students complete a project, such as a special feature magazine or mini-documentary on a topic of interest or concern. The project demonstrates knowledge, application, and progress in Journalism course content.

- Recommended Grade Level: Grades 9, 10, 11, or 12
- Recommended Prerequisites: None or teacher recommendation
- Counts as an Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diploma
- English/Language Arts credit (1080): If Journalism course work addresses Indiana's Academic Standards for English/Language Arts and the student also takes a two-credit English Advanced Placement course plus corresponding AP exams or a two-credit English dual credit course, up to two (2) credits accrued can be counted as part of the eight (8) required English/Language Arts credits for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas.
- Journalism Academic Career Path form; High School Journalism Standards; Research Standards; Historical Timeline: <http://www.doe.in.gov/achievement/curriculum/english-language-arts-education>
- NOTE: This is not a student publications course; however, it is encouraged that students sign up for the designated school newspaper or yearbook course (student publication) following successful completion of this course.

LANGUAGE ARTS LAB

1010 **One Semester** **1 credit**

Language Arts Lab is a supplemental course that provides students with individualized or small group instruction designed to support success in completing language arts course work aligned with Indiana's Academic Standards for English/Language Arts in Grades 9-12 and the Common Core State Standards for English/Language Arts, focusing on the Writing Standards (Standards 4, 5, and 6).

- Recommended Grade Level: Grades 9-12
- Recommended Prerequisites: None
- Credits: 1-8 credits. The nature of this course allows for successive semesters of instruction at advanced levels.
- Counts as an English/Language Arts Elective only for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- This course is for students who need additional support in all the language arts (reading, writing, speaking and listening), especially in writing.
- NOTE: The course may also be used for students who need extra preparation to take Advanced Placement classes or college placement examinations.

SPEECH

1076 **One Semester** **1 credit**

Speech is the study and application of the basic principles and techniques of effective oral communication. Students deliver focused and coherent speeches that convey clear messages, using gestures, tone, and vocabulary appropriate to the audience and purpose. Students deliver different types of oral and multi-media presentations, including viewpoint, instructional, demonstration, informative, persuasive, and impromptu. Students use the same Standard English conventions for oral speech that they use in their writing.

- Recommended Grade Level: Grades 11 or 12
- Recommended Prerequisites: None
- Fulfills an English/Language Arts requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

STUDENT PUBLICATIONS (Beginning)

1086-0 **Two Semesters** **2 credits**

STUDENT PUBLICATIONS (Intermediate)

1086-1 **Two Semesters** **2 credits**

STUDENT PUBLICATIONS (Advanced)

1086-2 **Two Semesters** **2 credits**

STUDENT PUBLICATIONS (2nd Year Advanced)

1086-3 **Two Semesters** **2 credits**

Student Publications is the continuation of the study of journalism. Students demonstrate their ability to do journalistic writing and design for high school publications, including school newspapers and yearbooks, and a variety of 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 publications or media staffs so that they may prepare themselves for career paths in journalism, communications, writing, or related fields.

- Recommended Grade Level: Grades 9, 10, 11, or 12
- Recommended Prerequisites: Journalism
- Counts as an Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas or two (2) credits accrued as an English/Language Arts requirement for the General Diploma only if the course work addresses Indiana's Academic Standards for English/Language Arts
- Journalism Academic Career Path form; High School Journalism Standards; Student Publications Standards: <http://www.doe.in.gov/achievement/curriculum/english-language-arts-education>
- NOTE: This is the designated school newspaper or yearbook course

Family and Consumer Sciences

CHILD DEVELOPMENT

5362 **One Semester** **1 credit**

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.

- Recommended Grade Level: Grade 10, 11, 12
- Recommended Prerequisites: Preparing for College and Careers
- This course is one of the six FACS courses from which students may choose three to fulfill the required Health and Safety credit—See Rule 511 IAC 6-7-6 (6)
- 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 CULINARY ARTS AND HOSPITALITY

5438 **One Semester** **1 credit**

Replaces Culinary Arts Foundations

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.

- Recommended Grade Level: Grade 9, 10
- Recommended Prerequisites: Nutrition and Wellness, Advanced Nutrition and Wellness
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

ADVANCED LIFE SCIENCE: FOODS

5072 **Two Semesters** **2 credits**

Food Science is a two semester course that provides students with an overview of food science and its importance. Introduction to principles of food processing, food chemistry and physics, nutrition, food microbiology, preservation, packaging and labeling, food commodities, food regulations, issues and careers in the food science industry help students understand the role that food science plays in the securing of a safe, nutritious, and adequate food supply. A project-based approach is utilized along with laboratory, team building, and problem solving activities to enhance student learning.

- Recommended Grade Level: Grade 9-12
- Recommended Prerequisites: Preparing for College and Careers
- Fulfills a Life Science or Physical Science requirement for the General Diploma only or counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

Fine Arts

ART COURSES

INTRODUCTION TO TWO-DIMENSIONAL ART

4000 **One Semester** **1 credit**

This basic two-phase course is a prerequisite for ALL studio classes. In this course students are given a sample of all two dimensional art courses offered at Marion High School. The elements and principles of art are emphasized as fundamentals of producing, understanding, and enjoying art. The basic rules of design theory are practiced in a variety of two-dimensional mediums with an emphasis on technique, craftsmanship, and the use of tools.

- Recommended Grade Level: 9, 10, 11

INTRODUCTION TO THREE-DIMENSIONAL ART

4003 **One Semester** **1 credit**

This is the second of a basic two-phase course and is a prerequisite for ALL studio classes. In this course students are given a sample of all three dimensional art courses offered at Marion High School. The elements and principles of art are emphasized as fundamentals of producing, understanding, and enjoying art. The basic rules of design theory are practiced in a variety of three-dimensional mediums with an emphasis on technique, craftsmanship, and the use of tools.

- Recommended Grade Level: 9, 10, 11
- Recommended Prerequisites: Introduction to 2d Art (4000)

CERAMICS

4040 **One Semester** **1 credit**

This course gives students the opportunity to learn basic skills using clay and glazing materials while fostering and develop those skills into creative thinking. Hand building techniques, practice on the potter's wheel and working with a variety of clay surface designs will be explored. Students will determine the difference between functional and decorative pottery, as well as explore cultural and historical connections.

- Recommended Grade Level: 10, 11, or 12
- Recommended Prerequisites: Introduction to Two-Dimensional Art, Introduction to Three-Dimensional Art

ADVANCED CERAMICS

4040-1 **One Semester** **1 credit**

This course gives students the opportunity to expand basic skills learned in Ceramics 1 with an equal focus on wheel- throwing and hand-built forms. An emphasis will be placed on developing and defining personal style and direction. Emphasis will also be placed on refining of technical ability and skill in handling clay and glazes.

- Recommended Grade Level: 10, 11, or 12
- Recommended Prerequisites: Ceramics

DRAWING

4060 **One Semester** **1 credit**

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 Grade Level: 10, 11, or 12
- Recommended Prerequisites: Introduction to Two-Dimensional Art (L)

ADVANCED DRAWING

4060 **One Semester** **1 credit**

Drawing II is a continuation of Drawing I. This course will result in the advancement of basic drawing skills utilizing the human figure, natural and manufactured objects. Basic techniques and creative processes will be explored through expressive use and exploration of a variety of materials and techniques. Emphasis will be placed on developing a higher level of quality draftsmanship with a focus on proportion and structure.

- Recommended Grade Level: Grade 11, 12

PAINTING

4064 **One Semester** **1 credit**

This course is designed to give students experience using a variety of painting materials such as; mixed media, acrylic, oil, and watercolor. Students will create realistic and abstract paintings that focus on visual problem solving through composition and technique. They will engage in advanced study of color theory and the use of values to create space with the various painting media. Subject matter will include landscape, still life, collage, and others.

- Recommended Grade Level: 10, 11, or 12
- Recommended Prerequisites: Introduction to Two-Dimensional Art

ADVANCED PAINTING

4064-1 **One Semester** **1 credit**

This course gives students further opportunity to explore painting techniques and concepts learned in Painting1. An emphasis will be placed on developing and defining personal style and direction. Emphasis will also be placed on refining of technical ability and skill. This course will also further explore the use of oil paints as well as mediums used in Painting 1. Students will have the opportunity to build their own canvas structures, stretch their own canvas, and learn how to properly display their paintings.

- Recommended Grade Level: 10, 11, or 12
- Recommended Prerequisites: Introduction to Two-Dimensional Art

PHOTOGRAPHY

4062 **One Semester** **1 credit**

Photography students will use a digital camera and Adobe Photoshop to learn traditional photography techniques and current digital techniques for manipulating images. Projects will focus on the examination of composition and the elements and principles of art. Stop-action, studio lighting, depth-of-field, and other conventional methods of capturing images will be studied. Photoshop will be used to create non-traditional photographs involving layered images, merged images, and collaged images.

- Recommended Grade Level: 10, 11, or 12
- Recommended Prerequisites: Introduction to Two-Dimensional Art

ADVANCED PHOTOGRAPHY

4062-2 **One Semester** **1 credit**

In this course, students will continue to study the composition qualities of photography as well as the process of film, picture developing, and digital image manipulation. Color film, processing and presentation materials are extra costs to the students. This is an advanced level and defined standards will be utilized.

- Recommended Grade Level: 10, 11, or 12
- Recommended Prerequisites: Photography

SCULPTURE

4044 **One Semester** **1 credit**

In Sculpture students will explore differences between two-dimensional and three-dimensional art forms. Students will work with various mediums including clay, plaster, soapstone, wire, and metal. Realistic and abstract sculptures will be created using subtractive and additive processes involving carving, modeling, construction, assembling, and casting. Sculpting tools and techniques will be studied through production with a focus on craftsmanship.

- Recommended Grade Level: 10, 11, or 12
- Recommended Prerequisites: Introduction to Three-Dimensional Art

Advanced Placement Studio Art: Drawing Portfolio (4048), 2-D Design Portfolio (4050), and 3-D Design Portfolio (4052) One Semester 1 Credit

Students in the A. P. Studio course are expected to meet the performance standards of a first-year university art program. There are three areas in which students may submit a portfolio; Drawing, 2-D Design, and 3-D Design. The A.P. Studio course culminates in a portfolio exam consisting of three sections requiring students to demonstrate their understanding of media, style, and subject. Students in the A. P. Studio course will learn to communicate themes, ideas, and meaning through problem solving in their artwork. The course also focuses on analyzing, evaluating, and critiquing their work and the work of other artists.

- Recommended Grade Level: 11, or 12
- Recommended Prerequisites: Two & Three Dimensional design + 2 credits in studio courses offered in concentration area. Teacher recommendation required.

VOCAL MUSIC COURSES

BEGINNING CHORUS

4182 One Semester 1 credit

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.

- Recommended Grade Level: 10, 11, or 12
- Laboratory course

INTERMEDIATE CHORUS

4186 One Semester 1 credit

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.

- Recommended Grade Level: 10, 11, or 12
- Recommended Prerequisites: Beginning Chorus

ADVANCED CHORUS (26th Street Innovations Show Choir)

4188-26 Two Semesters 2 credits

ADVANCED CHORUS (Sweet Inspirations)

4188-S Two Semesters 2 credits

This class is an advanced choir of students, exhibiting exceptional vocal and musical skills in which much time is spent in working with tone production, vocal development, dance development, and overall performance showmanship. A wide variety of musical styles and choreography will be explored throughout the year. In addition to classroom activities, these students will be involved in extracurricular contests and festivals requiring a minimum amount of after school and/or evening rehearsals. Some cost is involved. Students must maintain a 2.5 GPA and pass at least 5 out of 7 classes per semester.

- Recommended Grade Level: None
- Recommended Prerequisites: Beginning Chorus and Intermediate Chorus. Must audition for director. Acceptance to the group will be by Audition Only

MUSICAL COURSES

MUSIC HISTORY AND APPRECIATION

4206 **One Semester** **1 credit**

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.

- Recommended Grade Level: 9, 10, 11, or 12
- Recommended Prerequisites: None

MUSIC THEORY AND COMPOSITION

4208 **One Semester** **1 credit**

Students develop skills in the analysis of music and theoretical concepts in a laboratory setting. They develop ear training and dictation skills, compose works that illustrate mastered concepts, understand harmonic structures and analysis, understand modes and scales, study a wide variety of musical styles, study traditional and nontraditional music notation and sound sources as tools for musical composition, and receive detailed instruction in other basic elements of music.

- Recommended Grade Level: 9, 10, 11, or 12
- Recommended Prerequisites: None

INSTRUMENTAL MUSIC

BEGINNING CONCERT BAND (Non-Marching)

4160 **Two Semesters** **2 credits**

ADVANCED CONCERT BAND (Marching)

4170 **Two Semesters** **2 credits**

This course is open to any student who has successfully completed 8th grade band. No audition is required to admit into the class; however, auditions are held for chair placement and section leaders. It is also used to develop advanced skill on each individual's instrument in order to move to the next performance level. Concert, contest, and pep band attendance are course requirements. Activities include preparing for various types of wind band performances, pep band, marching band, fall concert, holiday concert, solo and ensemble performances, ISSMA organizational contests, and Spring Pops Concert. Out of class practice is expected and graded. A minimal number of after school practices are required. Both are essential for a successful musician. Students must participate in performance opportunities outside of the school day that support and extend the learning of the classroom.

- Recommended Grade Level: None
- Recommended Prerequisites: Successful Completion of 8th Grade Band and/or Permission of Director

JAZZ ENSEMBLE

4164 **One Semester** **1 credit**

Students taking this course develop musicianship and specific performance skills through group and individual settings for the study and performance of varied styles of instrumental jazz. Instruction includes the study of the history, formative, and stylistic elements of jazz. Students develop their creative skills through improvisation, composition, arranging, performing, listening, and analyzing. A limited amount of time outside of the school day may be scheduled for rehearsals and performances. In addition, a limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students must participate in performance opportunities outside of the school day that support and extend the learning in the classroom. Student participants must also be receiving instruction in another band or orchestra class offering at the discretion of the director.

- Recommended Grade Level: 10, 11, or 12
- Recommended Prerequisite: Completed Audition and Permission from the Director

INSTRUMENTAL ENSEMBLE (DRUMLINE)

4162 One Semester 1 credit

Instrumental Ensemble is based on the Indiana Academic Standards for High School Instrumental Music. Students taking this course are provided with a balanced comprehensive study of chamber ensemble and solo literature, which develops skills in the psychomotor, cognitive and affective domains. Students develop and refine elements of musicianship including tone production, technical skills, intonation, music reading skills, listening skills, analyzing music, studying historically significant styles of literature as pertaining to chamber ensemble and solo 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 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.

- Recommended Grade Level: 10, 11, or 12
- Credits: a 1-semester course for 1 credit. The nature of this course allows for successive semesters of instruction at an advanced level provided that defined proficiencies and content standards are utilized.

Health and Physical Education

PHYSICAL EDUCATION I

3542 **One Semester** **1 credit**

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 any of the four of the following: team sports; dual sport activities; individual physical activities; aquatics, all which are within the framework of lifetime physical activities and fitness. Ongoing assessment includes both written and performance-based skill evaluation. Individual assessments may be modified for individuals with disabilities, in addition to those with IEP's and 504 plans (e.g., chronic illnesses, temporary injuries, obesity, etc.). See 511 IAC 7-27-9, 7-27-11.

- Recommended Grade Level: 9 – 12
- Recommended Prerequisites: Grade 8 Physical Education
- Fulfills part of the Physical Education requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Students may earn PE I credit through participation in alternative activities (meet with guidance counselor for details)
 - It is strongly recommended that students who earn credit through participation in alternative activities take an advanced Physical Education course

PHYSICAL EDUCATION II

3544 **One Semester** **1 credit**

Physical Education II focuses on instructional strategies through a planned, sequential, and comprehensive physical education curriculum which provide students with opportunities to actively participate any of the following that were not in Physical Education I: team sports; dual sport activities; individual physical activities; aquatics, all which are within the framework of lifetime physical activities and fitness. Ongoing assessment includes both written and performance-based skill evaluation.

- Recommended Grade Level: 9 – 12
- Recommended Prerequisites: Physical Education I
- Fulfills part of the Physical Education requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Students may earn PE II credit through participation in alternative activities (meet with guidance counselor for details)
 - It is strongly recommended that students who earn credit through participation in alternative activities take an advanced Physical Education course

HEALTH & WELLNESS

3506 **One Semester** **1 credit**

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 habits, promoting safety and preventing unintentional injury and violence, promoting mental and emotional health, a tobacco, 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.

- Recommended Grade Level: 9 – 1
- Recommended Prerequisites: 8th grade health education
- Fulfills the Health & Wellness requirement for the General, Core 40, Core 40 with Academic Honors, Core 40 with Technical Honors diplomas

ELECTIVE PHYSICAL EDUCATION: INTRO TO WEIGHT TRAINING

3560-I **One Semester** **1 credit**

This course is designed for students who want to learn the proper technique of weight lifting and training for lifetime fitness. This course also instructs students in flexibility, cardiovascular endurance, and aerobic fitness. Basic lifts, safety procedures, and goal setting will be taught in this course. On-going assessment includes both written performance based skill evaluation.

- Recommended Grade Level: 10 – 12
- Recommended Prerequisites: PE I and II
- Counts as an Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

ELECTIVE PHYSICAL EDUCATION: WEIGHT TRAINING & CONDITIONING

3560-W **One semester** **1 credit**

This course is designed to provide a rigorous program in weight training and cardiovascular fitness for the athlete. It is designed for students who have a desire to improve their physical strength through specially designed programs. Sport-specific training, muscle group exercise, endurance, flexibility, and maintenance are all components of this class. Students will receive health education concerning body building supplements, additives, and diet. On-going assessment includes both written and performance based skill evaluations.

- Recommended Grade Level: 11 – 12
- Recommended Prerequisites: Intro to Weight Training
- Counts as an Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

ELECTIVE PHYSICAL EDUCATION: LIFEGUARDING AND WATER SAFETY

3560-L **One semester** **1 credit**

This course is designed for the student who is an excellent swimmer and committed to earning the American Red Cross Certificate for Life Guarding and First Aid, CPR, and AED.

- Recommended Grade Level: 10 – 12
- Recommended Prerequisites: PE I, PE II
- Special Requirements: Students must have the ability to swim 300 yards continuously demonstrating breath control and rhythmic breathing. Students may use front crawl, breaststroke, or a combination of both. Students must be able to tread water for 2 minutes using only the legs. Students must be able to swim 20 yards, surface dive 7-10 feet to retrieve a 10 pound brick, return to starting point on his/her back with both hands holding the brick
- Counts as an Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- A fee is required for certification

ELECTIVE PHYSICAL EDUCATION: SPORTS EDUCATION

3560-T **One semester** **1 credit**

This course focuses on activity and game play. In addition, students assume all roles pertaining to the activity. An emphasis is placed on organization and management of team and individual sports. Roles include: players, coaches, officials, general managers and statisticians. This course will provide students with the opportunity to develop or refine skills and attitudes that promote lifelong fitness. Students may elect this class more than one term.

- Recommended Grade Level: 10 – 12
- Recommended Prerequisites: PE I and II
- Counts as an Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

ELECTIVE PHYSICAL EDUCATION: RHYTHMIC FITNESS AND CONDITIONING

3560-R **One semester** **1 credit**

This physical education elective course introduces students to a variety of fitness and conditioning methods and physical activities. It provides students with opportunities to achieve and maintain a healthy level of physical fitness and increase their knowledge of fitness concepts. The class is designed for students who desire improved flexibility, balance, strength, coordination, and cardiovascular fitness. Emphasis is placed on yoga, aerobics, resistance bands, cycling, fitness walking, and dance. Assessment includes both written and performance based skill evaluation.

- Recommended Grade Level: 10 – 12

Updated 3/7/2014

- Recommended Prerequisites: PE I and II
- Counts as an Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

Mathematics

ALGEBRA ENRICHMENT

2516 **Two Semesters** **2 credits**

Algebra Enrichment is a mathematics support course for Algebra I. The course provides students with additional time to build the foundations necessary for high school math courses, while concurrently having access to rigorous, grade-level appropriate courses. The five critical areas of Algebra Enrichment align with the critical areas of Algebra I: Relationships between Quantities and Reasoning with Equations; Linear and Exponential Relationships; Descriptive Statistics; Expressions and Equations; and Quadratic Functions and Modeling. However, whereas Algebra I contains exclusively grade-level content, Algebra Enrichment combines standards from high school courses with foundational standards from the middle grades.

- 9th Graders Only
- Counts as a Mathematics Course for the General Diploma only or as an Elective for the Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Algebra Enrichment is designed as a support course for Algebra I. As such, a student taking Algebra Enrichment must also be enrolled in Algebra I during the same academic year.

ALGEBRA I

2520 **Two Semester** **2 credits**

Algebra I formalizes and extends the mathematics that student learned in the middle grades. Five critical areas comprise Algebra I: Relations and Functions; Linear Equations and Inequalities; Quadratic and Nonlinear Equations; Systems of Equations and Inequalities; and Polynomial Expressions. The 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 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.

- Recommended Prerequisite: Pre-Algebra
- Fulfills the Algebra I/Integrated Mathematics I requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Students pursuing Core 40, Core 40 with Academic Honors, or Core 40 with Technical Honors diploma should receive credit for Algebra I by the end of Grade 9

ALGEBRA II

2522 **Two Semesters** **2 credits**

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.

- Recommended Prerequisite: Pass both semesters of Algebra I
- 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

ALGEBRA II HONORS

2522-H **Two Semesters** **2 credits**

In addition to the topics covered in Algebra II, Algebra II Honors also covers counting principles and probability. Honors Algebra II covers all topics at an accelerated pace and with extra enrichment activities. Students planning to enroll in Dual Credit/Advanced Placement math courses are strongly encouraged to take Algebra II Honors.

- Recommended Prerequisite: Algebra I

- Fulfills the Algebra 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

CALCULUS AB, ADVANCED PLACEMENT/ADVANCED MATH COLLEGE CREDIT CALCULUS

2562 **Two Semesters** **2 credits**

Calculus AB, Advanced Placement is a course that provides students with the content established by the College Board. Topics include: (1) functions, graphs, and limits: analysis of graphs, limits of functions, asymptotic and unbounded behavior, continuity as a property of functions (2) derivatives: concepts of the derivative, derivative at a point, derivative as a function, second derivatives, application and computation of derivatives, and (3) integrals: interpretations and properties of definite integrals, applications of integrals, fundamental theorem of calculus, techniques of anti-differentiation, and numerical approximations to definite integrals. The use of graphing technology is required. 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 Grade Level: Grades 11 or 12
- Recommended Prerequisite: Pre-Calculus Honors (College Algebra and Trigonometry w/ Analytic Geometry)
- Counts as a Mathematics Course for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Dual Credit – Ivy Tech: MATH 211 Calculus I (4 credits)
- Students will choose which course title to appear on their transcript

PRE-CALCULUS/TRIGONOMETRY

2564 **Two Semesters** **2 credits**

This course is a two semester dual credit class that contains one semester of college algebra and one semester of trigonometry. Semester one presents an in-depth study of functions, quadratic, polynomial, radical, and rational equations, radicals, complex numbers, systems of equations, matrices, rational functions and exponential and logarithmic functions. Semester two presents an in-depth study of right triangle trigonometry, oblique triangles, vectors, graphs of trigonometric functions, trigonometric identities, equations, complex numbers in rectangular and polar/trigonometric forms, rectangular and polar coordinates, and conics.

- Recommended Prerequisite: Algebra II
- Counts as a Mathematics Course for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

ADVANCED MATH COLLEGE CREDIT – COLLEGE ALGEBRA (1st Semester)

2544-CA **One Semester** **1 credit**

ADVANCED MATH COLLEGE CREDIT – TRIGONOMETRY WITH ANALYTIC GEOMETRY (2nd Semester)

2544-T **One Semester** **1 credit**

These courses are to be taken in consecutive semesters and are taught at the same rigor as the first and second semester freshman college mathematics courses. During the first semester, students are presented an in-depth study of functions, quadratic, polynomial, radical, and rational equations, radicals, complex numbers, systems of equations, matrices, rational functions and exponential and logarithmic functions. During the second semester, student apply new knowledge in an in-depth study of right triangle trigonometry, oblique triangles, vectors, graphs of trigonometric functions, trigonometric identities and equations and complex numbers in rectangular and polar/trigonometric forms, rectangular and polar coordinates and conics.

- Recommended Prerequisite: Algebra II Honors and Geometry Honors or Teacher Recommendation
- Counts as a Mathematics Course for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Dual Credit – Ivy Tech: MATH 136 College Algebra (3 credits – 1st Semester);
Ivy Tech: MATH 137 Trigonometry with Analytical Geometry (3 credits – 2nd Semester)

ADVANCED MATH COLLEGE CREDIT – FINITE MATH

Replaces Discrete Mathematics

2530 **Two Semester** **2 credits**

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. Topics include: (1) counting techniques, (2) matrices, (3) recursion, (4) graph theory, (5) social choice, (6) linear programming, and (7) game theory.

Technology, such as computers and graphing calculators will be used frequently.

- Recommended Prerequisite: Algebra II and Geometry
- Counts as a Mathematics Course for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Dual credit – Ivy Tech: MATH 135

GEOMETRY

2532 Two Semesters 2 credits

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. Six critical areas comprise the Geometry course: Congruency and Similarity; Measurement; Analytic Geometry; Circles; and Polyhedra. Close attention should be paid to the introductory content for the Geometry conceptual category found in the high school CCSS. 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.

- Recommended Prerequisite: Algebra I and Passing Score on Algebra I ECA
- Fulfills the Geometry 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

GEOMETRY HONORS

2532-H Two Semesters 2 credits

Geometry Honors covers all topics at an accelerated pace and with extra enrichment activities. Students planning to enroll in Dual Credit/Advanced Placement math courses are strongly encouraged to take Geometry Honors.

- 9th Grade Only
- Recommended Prerequisite: Algebra I and Passing Score on Algebra I ECA
- Fulfills the Geometry 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

MATHEMATICS LAB

2560-1 Two Semesters 2 credits

Mathematics Lab provides students with individualized instruction designed to support success in completing mathematics coursework aligned with Indiana's Academic Standards for Mathematics. This course will be required for students who passed Algebra I but were unsuccessful in passing the End of Course Assessment (ECA). The content of Mathematics Lab is tightly aligned and designed to be taken in conjunction with Algebra II.

- Credits: A one to eight credit elective course
- Counts as an Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- 10th – 12th Grade

STATISTICS, ADVANCED PLACEMENT/ADVANCED MATH COLLEGE CREDIT STATISTICS

2570 Two Semesters 2 credits

Students will study the collection, interpretation, and presentation of descriptive and inferential statistics, including measures of central tendency, probability, binomial and normal distributions, hypothesis testing of one-and two-sample populations, confidence intervals, chi-square testing, correlation, data description, and graphical representations. This is a college level introductory statistics course.

- Recommended Prerequisite: (Ivy Tech: MATH 136 College Algebra)
- Counts as a Mathematics Course for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Dual Credit – IVY TECH MATH 200 Statistics (3 credits)
- Students will choose which course title to appear on their transcript

Multi-Disciplinary

JUNIOR RESERVE OFFICER TRAINING CORPS

This course is designed to develop: (1) citizenship and patriotism, (2) self-discipline, (3) physical fitness, (4) reliance and leadership, and (5) the skills used in decision making, communications, and problem-solving. The course content and experiences enable the students to understand the role of the military in support of national objectives and to become familiar with basic military knowledge, gender equity issues, benefits, and requirements. Topics to be included in the course are: (1) military history, (2) ROTC in the military, (3) substance abuse, (4) map reading, (5) marksmanship and firearm safety, (6) military drill, (7) field activities, (8) reserve components, and (9) first aid and hygiene. Opportunities are provided to explore the qualities and traits of courage, self-sacrifice, and integrity. Junior Reserve Officer Training Corps programs must be approved by and meet the requirements of the appropriate military organization.

- Recommended Grade Level: None
- Recommended Prerequisites: None
- Counts as an Elective for all diplomas

JROTC I – LET 1

0516-1 **Two Semesters** **2 credits**

The first year curriculum focuses in four primary areas:

- Citizenship in action – provides the foundations of Army JROTC and for getting involved
- Leadership Theory and Application – Being a Leader, Leadership Skills, and Leadership Applications
- Foundations for Success – Know yourself, Learning to Learn, Study Skills, Communication Skills, Conflict Resolution, and Financial Planning
- Wellness, Fitness, and First Aid – Cadet Challenge (The President’s Challenge; Physical Fitness Program)

JROTC II – LET 2

0516-2 **Two Semesters** **2 credits**

The second year curriculum focuses in five primary areas:

- Leadership Theory and Application – Leadership Applications
- Foundations for Success – Service Learning
- Wellness, Fitness, and First Aid – Achieving a Healthy Lifestyle, First Aid for Emergency and Non-emergency Situations, Drug Awareness, and Cadet Challenge
- Geography, Map Skills, and Environmental Awareness – Map Skills, Exploring the World, and Environmental Awareness
- Citizenship in History and Government – You the People, Citizenship Skills, and We the People

JROTC III – LET 3

0516-3 **Two Semesters** **2 credits**

The third year curriculum focuses in five primary areas:

- Citizenship in Action – Provides the foundations of Army JROTC and for getting involved
- Leadership Theory and Application – Leadership Planning, Leadership Strategies, Leading Others, and Applications
- Foundations for Success – Presenting Skills, Managing Conflicts, Career Planning, Planning Skills, Social Responsibility, Financial Planning, and Service Learning
- Wellness, Fitness, and First Aid – Cadet Challenge
- Citizenship in History and Government – You the People, Citizenship Skills, and We the People

JROTC IV – LET 4

0516-4 **Two Semesters** **2 credits**

The fourth year curriculum focuses in six primary areas:

- Citizenship in Action – Service to the Nation, Assistant Teaching

- Leadership Theory and Application – Leadership Principles, Leadership Applications, Assistant Teaching
- Foundations for Success – Financial Planning, Winning Colors, Success Profiler, Teaching Skills, Assistant Teaching, and Service Learning
- Wellness, Fitness, and First Aid – Cadet Challenge and Assistant Teaching
- Citizenship in History and Government – YTP, Citizenship Projects, History Projects, and Assistant Teaching

BASIC SKILLS

0500 One Semester 1 credit

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. •

- Recommended Grade Level: 9-12
- Recommended Prerequisites: None
- Credits: One credit per semester up to 8 credits
- Counts as an Elective for all diplomas

COLLEGE ENTRANCE PREPARATION

0532 One Semester 1 credit

College-Entrance Preparation utilizes individual student score reports from the PSAT and/or the PLAN to prepare students for the SAT, ACT, the Accuplacer and Compass assessments. Based on these score reports, students will receive targeted instruction to strengthen their foundations in critical reading, writing, mathematics, and science (all sections of college admission and placement exams). As appropriate, the course will also encompass test taking strategies to prepare students for success on a high-stakes assessment. Teachers are encouraged to use a curriculum with longitudinal, successful results. Course may also include college selection and application units, to best prepare students for overall college-readiness.

- Recommended Grade Level: semester 1 – grade 11; semester 2 – grade 10
- Recommended Prerequisite: Algebra II (or concurrent enrollment in Algebra II)
- Counts as an Elective credit for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas.

COMMUNITY SERVICE

0524 Two Semesters 2 credits

Community Service is a course created by public law IC 20-30-14 allowing juniors and seniors the opportunity of earning 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.”

- Grade level: 11 and 12 only
- Recommended Prerequisites: none

PEER TUTORING

0520 Two Semesters 2 credits

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.

- Recommended Grade Level: 10, 11 or 12
- Recommended Prerequisites: None

- Counts as an Elective for all diplomas

CAREER AND INFORMATION & EXPLORATION-JAG

0522 **Two Semesters** **2 credits**

The Career Information and Exploration course provides students opportunities to learn about themselves and about various traditional and nontraditional occupations and careers. Students are also provided assistance with improving their reading, math, and writing skills as a part of the program. 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) decision making and planning. Opportunities are provided for students to observe various job situations through field trips, internships, mock interviews, job shadowing, and guest speakers. Résumé development experience, career-related testing, and job placement assistance are provided to students. Credits from this course count as elective credits for all diplomas. These credits can also be used as part of a Career-Sequence or Flex credits for the General Diploma.

- Recommended Grade Level: 11 or 12
- Recommended Prerequisites: None
- Counts as an Elective for all Diplomas
- Enrollment in this course is only open to students participating in the Jobs for America's Graduates (JAG) program.

Science

BIOLOGY I

3024 **Two Semesters** **2 credits**

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.

- Recommended Grade Level: 9, 10
- Fulfills the Biology requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

BIOLOGY II HONORS

3026 **Two Semesters** **2 credits**

Biology II is an advanced laboratory, field, and literature investigations-based course. Students enrolled in Biology II examine in greater depth the structures, functions, and processes of living organisms. Students also analyze and describe the relationship of Earth's living organisms to each other and to the environment in which they live. In this course, students refine their scientific inquiry skills as they collaboratively and independently apply their knowledge of the unifying themes of biology to biological questions and problems related to personal and community issues in the life sciences.

- Recommended Grade Level: 10
- Recommended Prerequisite: Biology I
- Counts as life science Course for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

BIOLOGY, ADVANCED PLACEMENT

3020 **Two Semesters** **2 credits**

The AP Biology course is designed to develop advanced inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across domains. The result will be readiness for the study of advanced topics in subsequent college courses. This AP Biology course is equivalent to a two-semester college introductory biology course. Topics include 1) evolution, 2) cellular processes: energy and communication, 3) genetics and information transfer, and 4) interactions between biological systems.

- Recommended Grade Level: 11-12
- Recommended Prerequisite: Biology I and Chemistry I
- Counts as a Science Course for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

CHEMISTRY I

3064 **Two Semesters** **2 credits**

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.

- Recommended Grade Level: 10-12
- Recommended Prerequisite: Algebra II (can be taken concurrently)
- 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

CHEMISTRY I HONORS

3064-H **Two Semesters** **2 credits**

In Chemistry I Honors, students study the composition of matter and the changes that matter can undergo. Students learn the fundamentals of collecting and interpreting measurements in a laboratory setting. This course focuses on mathematical problem solving through unit analysis. It is a laboratory-based course designed to prepare highly motivated students for Chemistry, Advanced Placement. It differs from Chemistry I in that students are expected to make a greater commitment outside of class to laboratory assignments, lab reports, and readings. Students will study chemistry in greater depth at a faster pace and cover additional topics as they apply.

- Recommended Grade Level: 9-12
- Recommended Prerequisite: Algebra II (can be taken concurrently)
- 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

CHEMISTRY, ADVANCED PLACEMENT

3060 **Two Semesters** **2 credits**

Chemistry, Advanced Placement is a course based on the content established by the College Board. The content includes: (1) structure of matter: atomic theory and structure, chemical bonding, molecular models, nuclear chemistry; (2) states of matter: gases, liquids and solids, solutions; and (3) reactions: reaction types, stoichiometry, equilibrium, kinetics and thermodynamics. 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 Grade Level: 11-12
- Recommended Prerequisite: Chemistry I (H), Algebra II, Pre-Calculus/Trigonometry (may be taken concurrently)
- Counts as a Science Course for the General, Core 40, Core 40 with Academic Honors, and Core 40 with Technical Honors diplomas

CHEMISTRY II HONORS - DC

3066 **Two Semesters** **2 credits**

Chemistry II Honors is an extended laboratory, field, and literature investigation-based course. Students enrolled in Chemistry II Honors 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 interaction 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 Grade Level: 10-12
- Recommended Prerequisite: Chemistry I (H), Algebra II
- Counts as a Science Course for the General, Core 40, Core 40 with Academic Honors, and Core 40 with Technical Honors diplomas
- Dual Credit – Ivy Tech: CHEM 101: Introductory Chemistry (3 Credits)

EARTH AND SPACE SCIENCE I

3044 **Two Semesters** **2 credits**

Earth and Space Science I is a course focusing on the study of the earth's layers, atmosphere, hydrosphere, and the structure and scale of the Universe. Students analyze and describe Earth's interconnected systems and examine how Earth's materials, landforms, and continents are modified across geological time. Through laboratory and field investigations, students understand the history and development of the Earth and space sciences, explore the uses of Earth and space science in various careers, and investigate Earth and space science problems concerning personal needs and community issues related to science.

- Recommended Grade Level: 10-12
- Counts as a Science Course for the General, Core 40, Core 40 with Academic Honors, and Core 40 with Technical Honors diplomas

ENVIRONMENTAL SCIENCE

3010 **Two Semesters** **2 credits**

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 investigations as an essential course component. Students completing Environmental Science, acquire the essential tools for understanding the complexities of national and global environmental systems.

- Recommended Grade Level: 11-12
- Recommended Prerequisite: Biology I, Chemistry I
- Counts as a Science Course for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

ENVIRONMENTAL SCIENCE, ADVANCED PLACEMENT (L)

3012 **Two Semesters** **2 credits**

Environmental Science, Advanced Placement is a course based on content established by the College Board. Students enrolled in AP Environmental Science investigate the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. 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 Grade Level: 11-12
- Recommended Prerequisite: Biology and Chemistry
- Credits: A two credit course, 1 credit per semester
- Counts as a Science Course for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Qualifies as a Quantitative Reasoning course for the General, Core 40, AHD, and THD diplomas

INTEGRATED CHEMISTRY-PHYSICS

3108 **Two Semesters** **2 credits**

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 Grade Level: 9
- 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 the General, Core 40, Core 40 with Academic Honors, and Core 40 with Technical Honors diplomas

LIFE SCIENCE

3030 **One Semester** **1 credit**

Life Science is an introduction to biology course. Students develop problem-solving skills and strategies while performing laboratory and field investigations of fundamental biological concepts and principles. Students explore the functions and processes of cells within all living organisms, the sources and patterns of genetic inheritance and variation leading to biodiversity, and the relationships of living organisms to each other and to the environment as a whole.

- Recommended Grade Level: 9-10
- Fulfills a Science requirement for the General Diploma only or counts as an elective for the Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- NOTE: Students are strongly encouraged to combine this course with Physical Science (3102)

PHYSICAL SCIENCE

3102 One Semester 1 credit

Physical Science is a course in which students develop problem solving skills and strategies while performing laboratory and field investigations of fundamental chemical, physical, and relate science concepts and principles that are related to students' interests and that address everyday problems. Students enrolled in Physical Science will explore the structure and properties of matter, the nature of energy and its role in chemical reactions and the physical and chemical laws that govern Earth's interconnected systems and forces of nature.

- Recommended Grade Level: 9-10
- Credits: A one credit course
- Fulfills a Science requirement for the General Diploma only or counts as an elective for the Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Note: Students are strongly encouraged to combine this course with Life Science (3030)

AP PHYSICS I

3084 Two Semesters 2 credits

Physics I is a course that provides students with the content established by the College Board. Topics and their relative emphasis include: kinematics in one and two dimensions, dynamics Newton's laws and circular motion, universal law of gravitation, simple harmonic motion: simple pendulum and mass springs system, impulse and momentum, conservation of momentum: collisions energy and conservation of energy, torque, rotational motion, conservation of angular momentum, electric charge and electric force, DC circuits: resistors only, and mechanical waves and sounds.

- Recommended Grade Level: 9-12
- Recommended Prerequisite: Passed Algebra I ECA and enrolled in Algebra II
- Fulfills the 2 credit requirement for Chemistry I, Physics I, or Integrated Chemistry and Physics towards the General, Core 40, Core 40 with Academic Honors, and Core 40 with Technical Honors diplomas

AP PHYSICS II

3080 Two Semesters 2 credits

AP Physics 2 is a course that provides students with the content established by the College Board. Topics and relevant emphasis include: thermodynamics, static and dynamic fluids, electric force, electric field and electric potential, DC circuits and RC circuits (steady-state only), magnetism and electromagnetic conduction, geometric optics and physical optics, quantum physics, atomic and nuclear physics.

- Recommended Grade Level: 9-12
- Recommended Prerequisite: AP Physics I (maybe taken concurrently)
- Counts as a Science Course for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

ADVANCED SCIENCE, SPECIAL TOPICS – ASTRONOMY I

3092-A One Semester 1 credit

Astronomy provides a study of the celestial environment. It provides for the in-depth investigation of the nature of the solar system and the universe. It involves the study of the physical principles that govern the universe, as well as a survey and analysis of objects found in space. Students will also investigate the principles and history of space travel.

- Recommended Grade Level: 11-12
- Counts as a Science Course for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

ADVANCED SCIENCE, SPECIAL TOPICS – ASTRONOMY II

3092-A2 One Semester 1 credit

Astronomy II provides a study of the celestial environment. Students, having completed Astronomy I, will take a hands-on approach to the Marion High School Planetarium. They will learn how to operate the Nightshade software in order to prepare and present an original and unique Planetarium program to the greater Marion community. Students will need to be teachable, focused and independent learners who can accept this challenge and be willing to strive for excellence in their program product.

- Recommended Grade Level: 11-12

- Recommended Prerequisite: Astronomy
- Counts as a Science Course for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

ADVANCED SCIENCE, SPECIAL TOPICS – MARINE BIOLOGY

3092-MA **One Semester** **1 credit**

This course is a systematic examination of the various animal and plant phyla as well as the physical factors found in the ocean. The work in this course is based upon the laboratory exercises that are designed to enhance student understanding of the principles of marine biology. Some dissection of marine animals is included.

- Recommended Grade Level: 11-12
- Counts as a Science Course for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

ADVANCED SCIENCE, SPECIAL TOPICS – MICROBIOLOGY

3092-MI **One Semester** **1 credit**

This course will include the microscopic study of algae, bacteria, fungi, and protozoa. Viruses and other minute organisms as well as the diseases caused by each will be investigated. Microscope work is a major component of this course.

- Recommended Grade Level: 11-12
- Counts as a Science Course for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

ADVANCED SCIENCE, SPECIAL TOPICS – ZOOLOGY

3092-Z **One Semester** **1 credit**

Zoology is the study of structure, classification, and ecology of animals. All major phyla of animals will be studied. The evolution of animals and their economic importance will be included. Animal dissection is a major component of this course. Students should be prepared to work on a project of independent research.

- Recommended Grade Level: 11-12
- Counts as a Science Course for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

ANATOMY & PHYSIOLOGY

5276 **Two Semesters** **2 credits**

Anatomy & Physiology is a course in which students investigate and apply concepts associated with human anatomy and physiology. Concepts covered include the process of homeostasis and the essentials of human function at the level of genes, cells, tissues, and organ systems. Students will understand the structure, organization, and function of the various components of the healthy human body in order to apply this knowledge in all health-related fields. The course should include ample laboratory experiences that illustrate the application of the standards to the appropriate cells, tissues, organs, and organ systems. Dissection is both appropriate and necessary. Students should be able to use basic laboratory equipment such as microscopes, balances, and pipettes.

- Recommended Grade Level: 11-12
- Required Prerequisite: First-Year course of same discipline (Biology)
- Recommended Prerequisite: Chemistry
- Counts as a Life Science Course for the General, Core 40, Core 40 with Academic Honors, and Core 40 with Technical Honors diplomas

PLTW PRINCIPLES OF BIOMEDICAL SCIENCES

5218 **Two Semesters** **Maximum of 2 Credits**

PLTW Principles of the 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

Updated 3/7/2014

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.

- Recommended Grade Level: 9th grade
- Recommended Prerequisites: Biology I or concurrent enrollment in Biology I is required
- Credits: 1 credit per semester, 2 semesters maximum, maximum of 2 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
- Fulfills a Core 40 Science elective 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

AFRICAN STUDIES

1500 **One Semester** **1 credit**

African Studies helps students understand and appreciate the diverse peoples, cultures, and economic systems of the African continent. This course examines: (1) the early kingdoms and cities of Africa, (2) early trade routes with Europe and the East, (3) the influence of African culture in the Americas, (4) European colonization of Africa, (5) African influences in the United States, (6) the establishment of independent nations in Africa, and (7) contemporary traditions, literature, art and other aspects of culture.

- Recommended Grade Level: 11 or 12
- Recommended /Prerequisites: none
- Counts as an Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

ECONOMICS

1514 **One Semester** **1 credit**

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.

- Recommended Grade Level: Grade 12
- Recommended Prerequisites: None
- Fulfills the Economics requirement for the Core 40, Core 40 with Academic Honors, Core 40 with Technical Honors and International Baccalaureate diplomas, a Social Studies requirement for the General Diploma, or counts as an Elective for any diploma

ETHNIC STUDIES

1516 **One Semester** **1 credit**

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.

- Recommended Grade Level: None
- Recommended Prerequisites: None
- Counts as an Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

GEOGRAPHY AND HISTORY OF THE WORLD

1570 **Two Semesters** **2 credits**

Geography and History of the World is designed to enable students to use geographical 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, and presenting and documenting findings orally and/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 and interaction. Using these skills, concepts and the processes associated with

them, students are able to analyze, evaluate, and make predictions about major global developments. This course is designed to nurture perceptive, responsible citizenship, encourage and support the development of critical thinking skills and lifelong learning, and to help prepare Indiana students for the 21st Century.

- Recommended Grade Level: 9th grade only
- Recommended Prerequisites: None
- Fulfills a Social Studies requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas or counts as an Elective for any diploma
- It is strongly recommended that students take Geography and History of the World their freshman year if they intend to take World History, Advanced Placement

UNITED STATES GOVERNMENT

1540 One Semester 1 credit

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.

- Recommended Grade Level: Grade 12
- Recommended Prerequisites: None
- Fulfills the Government requirement for the General, Core 40, Core 40 with Academic Honors, and Core 40 with Technical Honors diplomas or counts as an Elective for any diploma

ADVANCED SOCIAL SCIENCES, COLLEGE CREDIT – INTRODUCTION TO AMERICAN GOVERNMENT AND POLITICS

1574-G One Semester 1 credit

This course will cover federalism, theories of the origins and purposes of government and other aspects of the American government including interest groups, political parties, and the electoral process. Emphasis is placed on constitutional backgrounds and the organization and functions of the executive, legislative, and judicial segments of the national government, civil liberties and civil rights, public opinion, media, bureaucracies, and domestic and foreign policy.

- Recommended Grade Level: 12
- Recommended Prerequisites: World History AP, US History AP
- Fulfills a Social Studies requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas or counts as an Elective for any diploma
- Dual Credit – Ivy Tech: POLS 101 Introduction to American Government and Politics (3 credits)

PSYCHOLOGY

1532 One Semester 1 credit

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.

- Recommended Grade Level: 11 or 12
- Recommended Prerequisites: None
- Counts as an Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

ADVANCED SOCIAL SCIENCE, COLLEGE CREDIT - PSYCHOLOGY

1574

One Semester

1 Credit

Psychology is defined as the systematic study of behavior and mental processes. This course will be an overview of the broad science of Psychology, highlighting the various areas of study within this field. The course will begin with the history of the discipline, physiological bases of behavior, sensory and perceptual processes, development across the life span, personality, intelligence, methodology and statistics, ethics and careers in psychology. This course will provide the foundation necessary for future success in additional coursework required.

- Recommended Grade Level: 11 or 12
- Recommended Prerequisites: None
- Counts as an Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- This course is aligned with postsecondary courses for Dual Credit

SOCIOLOGY

1534

One Semester

1 credit

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.

- Recommended Grade Level: Grades 11 or 12
- Recommended Prerequisites: None
- Counts as an Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

UNITED STATES HISTORY

1542

Two Semesters

2 credits

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.

- Recommended Grade Level: None
- Recommended Prerequisites: None
- Fulfills the US History requirement of the General, Core 40, Core 40 with Academic Honors, and Core 40 with Technical Honors diplomas

UNITED STATES HISTORY, ADVANCED PLACEMENT

1562

Two Semesters

2 credits

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>

- Recommended Grade Level: Grades 11 or 12

- Recommended Prerequisites: None
- Fulfills the US History requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas or counts as an Elective for any diploma
- Dual Credit – IU: H105 American History I (3 credits – 1st semester);
IU: H106 American History II (3 credits – 2nd semester)

ADVANCED SOCIAL SCIENCE, COLLEGE CREDIT – AMERICAN HISTORY ACP

1574 Two Semesters 2 credits

This two semester course covers the evolution of American society: political, economic, social structure, racial and ethnic groups, world diplomacy of the United States, territorial expansion, industrialization, urbanization, international events and their impact on American History. First semester covers material from English colonization through the Civil War. Second semester covers material from 1865 to the present.

- Recommended Grade Level: 11
- Recommended Prerequisites: World History AP
- Dual Credit – IU: H105 American History I (3 credits – 1st semester);
IU: H106 American History II (3 credits – 2nd semester)

WORLD HISTORY AND CIVILIZATION

1548 Two Semesters 2 credits

World History emphasizes events and developments in the past that greatly affected large numbers of people across broad areas and that significantly influenced peoples and places in subsequent eras. Key events related to people and places as well as transcultural interaction and exchanges are examined in this course. Students are expected to compare and contrast events and developments involving diverse peoples and civilizations in different regions of the world. They will examine examples of continuity and change, universality and particularity, and unity and diversity among various peoples and cultures from the past to the present. Students are also expected to practice skills and process of historical thinking and research and apply content knowledge to the practice of thinking and inquiry skills and processes. There will be continuous and pervasive interactions of processes and content, skills and substance, in the teaching and learning of history.

- Recommended Grade Level: None
- Recommended Prerequisites: None
- Fulfills a Social Studies requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas or counts as an Elective for any diploma

WORLD HISTORY, ADVANCED PLACEMENT

1576 Two Semesters 2 credits

World History, Advanced Placement is a course that provides students with the content established by the College Board. The course will have a chronological frame from the periods 8000 B.C.E. to the present. AP World History focuses on five overarching themes: Interaction Between Humans and the Environment, Development and Interaction of Cultures, State-Building, Expansion, and Conflict, Creation, Expansion, and Interaction of Economic Systems, Development and Transformation of Social Structures. A comprehensive description of this course can be found on the College Board AP Central Course Description web page at: 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 Grade Level: 10
- Recommended Prerequisites: Geography and History of the World
- Fulfills a Social Studies requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas or counts as an Elective for any diploma.

CITIZENSHIP AND CIVICS

1508 One Semester 1 Credit

Citizenship and Civics is an overview of citizenship roles and responsibilities designed to help students become independent thinkers and conscientious citizens. This course deals with political trends and behavior which citizens consider to be relevant to the most pressing issues of the day. The course provides students experiences that will develop attitudes of citizenship within a democratic society. Topics include: (1) the policymaking process, (2) public participation in policymaking, (3) citizenship rights and responsibilities in a changing society, and (4) the

relationship between modern society and government. Study of the local government should be a component of this course.

- Recommended Grade Level: None
- Recommended Prerequisites: None
- Credits: 1 semester course, 1 credit
- Counts as an Elective

LAW EDUCATION

1526

One Semester

1 Credit

Law Education provides an understanding of the American legal system and its basis in the United States Constitution. The course is designed to promote an understanding of society and its system of laws by indicating how citizens may effectively function within the law. Ways of dealing with interpersonal conflict in order to secure constructive change are included, along with the development of critical thinking and problem solving skills. Case studies, field trips, simulations, and mock trials will be used in this course whenever feasible.

- Recommended Grade Level: Grades 11 or 12
- Recommended Prerequisites: United States Government or teacher recommendation
- Credits: 1 semester course, 1 credit
- Counts as an Elective

World Language

CHINESE I

2000 **Two Semesters** **2 credits**

Chinese I will introduce students to effective strategies for beginning Chinese language learning, and to various aspects of Chinese-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, participates in brief guided conversations on familiar topics, and write simple sentences using characters. This course also emphasizes the development of reading and listening comprehension skills, such as recognizing letters and sounds of familiar words and comprehending brief oral directions. Additionally, students will examine the practices, products and perspectives of Chinese-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 Chinese language and culture outside of the classroom.

- Recommended Grade Level: 9-12
- Recommended Prerequisites: None
- Fulfills a World Language requirement for the Core 40 with Academic Honors diploma or counts as a Directed Elective or Elective for any diploma

CHINESE II

2002 **Two Semesters** **2 credits**

Chinese II builds upon effective strategies for Chinese 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 sentences and descriptions using characters. This course also emphasizes the development of reading and listening comprehension skills, such as using contextual clues to guess meaning and recognizing words and characters through stroke order and stroke count. Students will address the presentational mode by presenting prepared material on a variety of topics, as well as reading aloud to practice appropriate pronunciation. Additionally, students will describe the practices, products and perspectives of Chinese-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 Chinese language and culture outside of the classroom.

- Recommended Grade Level: 9-12
- Recommended Prerequisites: Chinese 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

CHINESE III

2004 **Two Semesters** **2 credits**

Chinese III builds upon effective strategies for Chinese 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 simple paragraphs using characters. This course also emphasizes the continued development of reading and listening comprehension skills, such as using radicals, stroke order, and stroke count to guess meaning. 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. Additionally, students will continue to develop understanding of Chinese-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 Chinese language and culture outside of the classroom.

- Recommended Grade Level: 9-12
- Recommended Prerequisites: Chinese I and II
- Credits: A 2-credit course
- 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

2120 **Two Semesters** **2 credits**

Spanish I introduce students to effective strategies for beginning language learning, and to various aspects of Spanish-speaking culture. These courses encourage 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. These courses 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.

- Recommended Grade Level: 9-12
- Recommended Prerequisites: C or better in 8th grade English
- 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

2122 **Two Semesters** **2 credits**

Spanish II build upon effective strategies for Spanish language learning by encouraging the use of the language and cultural understanding for self-directed purposes. These courses encourage 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. These courses 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..

- Recommended Grade Level: 9-12
- Recommended Prerequisites: C or better in 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

2124 **Two Semesters** **2 credits**

Spanish III build upon effective strategies for Spanish language learning by facilitating the use of the language and cultural understanding for self-directed purposes. These courses encourage 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. These courses 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.

- Recommended Grade Level: 9-12
- Recommended Prerequisites: Spanish I and II
- 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 - DC

2124-DC **Two Semesters** **2 credits**

The first semester of Spanish III-DC will introduce additional advanced grammatical structures and vocabulary to further develop speaking, reading, writing, and listening skills as well as an appreciation of the cultures of the Spanish speaking world. Spanish is the primary medium of instruction and students are expected to speak Spanish and interact using the language in class. The course encourages interpersonal communication and emphasizes the exchange of detailed information in oral and written form. Students will begin to make the transition from controlled materials to authentic literary works and the analysis of cultural text. Students must also complete course requirements for Ivy Tech Community College SPAN 101 and SPAN 102.

- Recommended Grade Level: 10-12
- Recommended Prerequisites: B or higher in Spanish I and II
- Fulfills a World Language requirement for the Core 40 with Academic Honors diploma or counts as a Directed Elective or Elective for any diploma
- Dual Credit - Ivy Tech: SPAN 101 Spanish Level 1 (3 credits-1st semester); Ivy Tech: SPAN 102 Spanish Level 2 (3 credits-2nd semester)

SPANISH IV-DC

2126-DC **Two Semesters** **2 credits**

In this course, Spanish is the primary medium of instruction. Students are expected to speak Spanish and interact using the language in class. The goal of the course is to continue the development and reinforcement of the skills of the target language through listening, speaking, reading and writing at an advanced level. The course continues the study of grammar, vocabulary, and continues the study of culture in the Spanish speaking world. Students will read, analyze and interpret authentic literary works. Students must complete AP prep materials and course requirements for Ivy Tech Community College SPAN 101 and SPAN 202.

- Recommended Grade Level: 10-12
- Recommended Prerequisites: Spanish I and II
- Fulfills a World Language requirement for the Core 40 with Academic Honors diploma or counts as a Directed Elective or Elective for any diploma
- Dual Credit – Ivy Tech: SPAN 103 Spanish Level 3 (3 credits-1st semester); Ivy Tech: SPAN 104 Spanish Level 4 (3 credits-2nd semester)

SPANISH V HONORS

2128 **Two Semesters** **2 credits**

Spanish V provides opportunities for students to interact and exchange information in culturally and socially authentic and/or simulated situations to demonstrate integration of language skills with understanding of Spanish-speaking culture. This course emphasizes the use of appropriate formats, varied vocabulary and complex language structures within student communication, both oral and written, as well as the opportunity to produce and present

creative material using the language. Additionally, students will continue to develop understanding of Spanish-speaking culture through investigating the origin and impact of significant events and contributions unique to the target culture, comparing and contrasting elements that shape cultural identity in the target culture and the student's own culture, and explaining how the target language and culture have impacted other communities. This course further emphasizes the integration of concepts and skills from other content areas with the target language and cultural understanding, as well as the exploration of community resources intended for native Spanish speakers.

- Recommended Grade Level: 12
- Recommended Prerequisites: Spanish I, II, III and IV
- Fulfills a World Language requirement for the Core 40 with Academic Honors diploma or counts as a Directed Elective or Elective for any diploma



Marion High School/Tucker Career & Technology Center College & Career Courses

College and career pathways provide opportunities for students to complete an aligned sequence of courses for both high school and college credit. All college and career pathways lead to an industry-recognized credential, technical certification, or careers that are high wage and/or high demand in Indiana.

Students may choose from the following college and career pathways:

- Automotive Technology
- Education
- Construction Technology
- Culinary Arts
- Public Safety
- Emergency Medical Services
- Computer Networking & Support
- Nursing
- Pharmacology
- Physical Therapy
- Welding
- Visual Arts

*All offered college and career courses listed in this section include a combination of on-site and off-site course work, job shadowing experiences, internships, and apprenticeships.



Visual Arts Pathway

Careers in this pathway may include the following skills: designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

4516 - GRAPHIC COMMUNICATIONS I - COMPUTER ILLUSTRATION & GRAPHICS

Two Semesters/3 Periods, Maximum of 6 high school & 6 college credits

Introduces students to the computer's use in visual communication. The focus of the course is on basic computer terminology and use, mastering fundamental skills, and developing efficient working styles. These skills are then developed by creating work with imaging, drawing, interactive, and page layout software. The course includes organized learning experiences that incorporate a variety of visual art techniques as they relate to the design and execution of layouts and illustrations for advertising, displays, promotional materials, and instructional manuals. Instruction also covers advertising theory and preparation of copy, lettering, posters, produce vector illustrations, graphics and logos, and artwork in addition to incorporation of photographic images. Communication skills will be emphasized through the study of effective methods used to design products that impart information and ideas. Advanced instruction might also include experiences in silk screening and air brush techniques as well as activities in designing product packaging and commercial displays or exhibits.

- 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 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.

- Dual Credits Offered:
 - Vincennes University
 1. DESN 120 Computer Illustration
 2. DESN 155 Computer Page Layout
- Dual Credit Requirements: D or better earned
- Nationally Recognized Certifications Offered: Adobe Photoshop, Adobe Illustrator, & Adobe InDesign Certification

5550- GRAPHIC COMMUNICATIONS II – GRAPHIC DESIGN & LAYOUT

Two Semesters/3 Periods, Maximum of 6 high school & 6 college credits

Includes organized learning experiences that incorporate a variety of visual art techniques as they relate to the design and execution of layouts and illustrations for advertising, displays, promotional materials, and instructional manuals. Instruction also covers advertising theory and preparation of copy, lettering, posters, and artwork in addition to incorporation of photographic images. Communication skills will be emphasized through the study of effective methods used to design commercial products that impart information and ideas. Advanced instruction might also include experiences in silk screening and air brush techniques as well as activities in designing product packaging and commercial displays or exhibits.

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Required Prerequisites: D or better in Graphic Communications I - Computer Illustration & Graphics or Instructor Approval

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.

- Dual Credits Offered:
 - Vincennes University
 1. DESN 120 Computer Illustration
 2. DESN 155 Computer Page Layout
- Dual Credit Requirements: D or better earned
- Nationally Recognized Certifications Offered: Adobe Photoshop, Adobe Illustrator, & Adobe InDesign Certification



Computer Networking & Support Pathway

Careers in this pathway focus on design, development, support and management of hardware, software, multimedia, and systems integration services.

5230 - IT ACADEMY I – COMPUTER TECH SUPPORT

Two Semesters/3 Periods, Maximum of 6 high school & 6 college credits

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 the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

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.

- Dual Credits Offered:
 - Ivy Tech
 1. CINT 106 Micro Operating Systems
 2. CINT 115 IT Essentials
 3. CINT 116 PC Technician
- Dual Credit Requirements: D or better earned
- Nationally Recognized Certifications Offered: A+ Certification

5532 - IT ACADEMY II – NETWORKING FUNDAMENTAL

Two Semesters/3 Periods, Maximum of 6 high school & 6 college credits

Introduces students to concepts of local and wide area networks, home networking, networking standards using the IEEE/OSI Model, network protocols, transmission media and network architecture/topologies. Security and data integrity will be introduced and emphasized

throughout this course. The purpose of this course is to offer students the critical information needed to successfully move into a role as an IT professional supporting networked computers. Concepts covered will include TCP/IP client administration, planning a network topology, configuring the TCP/IP protocol, managing network clients, configuring routers and hubs as well as creating a wireless LAN.

- 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 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.

- Dual Credits Offered:
 - IVY Tech:
 - CINT 121 Network Fundamentals
- Dual Credit Requirements: D or better earned
- Nationally Recognized Certifications Offered: Net+ Certification



Culinary Arts Pathway

Careers in this pathway focus on management, marketing and operations of restaurants and other foodservices, lodging, attractions, recreation events and travel related services.

5440 - CULINARY ARTS I - CULINARY ARTS AND HOSPITALITY MANAGEMENT

Two Semesters/3 Periods, Maximum of 6 high school & 6 college credits

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. Instruction and laboratory experiences will allow students to apply 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.

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Required Prerequisites:
 - D or better in Introduction to Culinary Arts or Instructor Approval

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.

- Dual Credits Offered:
 - Vincennes University
 1. CULN 110 Quantity Food Production
 2. REST 100 Intro to Hospitality Management
- Dual Credit Requirements: D or better earned
- Nationally Recognized Certifications Offered: ServeSafe & Culinary Arts PrePac

5346 - CULINARY ARTS II - ADVANCED CULINARY ARTS

Two Semesters/3 Periods, Maximum of 6 high school & 6 college credits

Prepares students for occupations and higher education programs of study related to the entire spectrum of careers in the food industry, including (but not limited to) food production and services; food science, dietetics, and nutrition; and baking and pastry arts. Major topics for this advanced course include: basic baking theory and skills, introduction to breads, introduction to pastry arts, nutrition, nutrition accommodations and adaptations, cost control and purchasing, and current marketing and trends. Instruction and intensive laboratory experiences include commercial applications of principles of nutrition, aesthetic, and sanitary selection; purchasing, storage, preparation, and service of food and food products; using and maintaining related tools and equipment; baking and pastry arts skills; managing operations in food service, food science, or hospitality establishments; providing for the dietary needs of persons with special requirements; and related research, development, and testing. 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.

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Required Prerequisites:
 - D or better in Culinary Arts I – Culinary Arts & Hospitality Management or instructor approval

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.

- Dual Credits Offered:
 - Vincennes University
 1. REST 120 Food Service Sanitation*
 2. REST 155 Quantity Food Purchasing
- Dual Credit Requirements: D or better earned
- Nationally Recognized Certifications Offered: ServeSafe & Culinary Arts PrePac



Education Pathway

Careers in this pathway include the planning, managing and providing education and training services, and related learning support services.

5412 - EARLY CHILDHOOD EDUCATION I

Two Semesters/3 Periods, Maximum of 6 high school & 6 college credits

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. 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.

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Required Prerequisites:
 - 2.5 GPA or better

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.

- Dual Credits Offered:
 - Ivy Tech
 1. ECED 100 Introduction to Early Childhood Education*
 2. ECED 101 Health, Safety and Nutrition*
- Dual Credit Requirements: D or better earned
- Nationally Recognized Certifications Offered: Early Childhood Education PrePac

5406 - EARLY CHILDHOOD EDUCATION II

Two Semesters/3 Periods, Maximum of 6 high school & 6 college credits

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.

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Required Prerequisites:
 - D or better in Early Childhood Education I with successful completion of a minimum of 240 clock hours of practicum and 90 clock hours of instruction

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.

- This course is aligned with the following Post-Secondary courses for Dual Credit:
 - Ivy Tech
 - 1. ECED 105 CDA Process*
 - 2. ECED 103 Curriculum in Early Childhood Classroom*
- Dual Credit Requirements: D or better earned
- Nationally Recognized Certifications Offered: Early Childhood Education PrePac & CDA – Child Development Associate certification*
 - *Students must complete a total of 480 clock hours of practicum, a series of family questionnaires, a professional portfolio, an instructor interview, and a minimum of 180 clock hours of instruction to be eligible for the CDA certification.

5408 - EDUCATION PROFESSIONS I

Two Semesters/3 Periods, Maximum of 6 high school & 6 college credits

Provides the foundation for employment in education and related careers and prepares students for study in higher education. An active learning approach that utilizes higher order thinking, communication, leadership, and management processes is recommended in order to integrate suggested topics into the study of education and related careers. The course of study includes, but is not limited to: the teaching profession, the learner and the learning process, planning instruction, learning environment, and instructional and assessment strategies. Exploratory field experiences in classroom settings and career portfolios are required components.

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Required Prerequisites:
 - 2.5 GPA or better

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.

- Dual Credits Offered:
 - Ivy Tech
 - 1. EDUC 101, Introduction to Teaching as a Career*
- *Passing Accuplacer Scores REQUIRED

- Dual Credit Requirements: D or better earned
- Nationally Recognized Certifications Offered: Education Fundamentals PrePac

5404 - **EDUCATION PROFESSIONS II**

Two Semesters/3 Periods, Maximum of 6 high school & 6 college credits

Prepares students for employment in education and related careers and provides the foundation for study in higher education in these career areas. An active learning approach that utilizes higher order thinking, communication, leadership, and management processes is recommended in order to integrate suggested topics into the study of education and related careers. The course of study includes, but is not limited to: the teaching profession, the learner and the learning process, planning instruction, learning environment, and instructional and assessment strategies. Extensive field experiences in one or more classroom settings, resumes, and career portfolios are required components.

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Required Prerequisites:
 - D or better earned in Education Professions I, a 2.5 GPA or better, or instructor approval

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.

- Dual Credits Offered:
 - Ivy Tech
 1. EDUC 101, Introduction to Teaching as a Career*
 - Dual Credit Requirements: D or better earned
 - Nationally Recognized Certifications Offered: Education Fundamentals PrePac
- *Passing Accuplacer Scores REQUIRED



Health Science Pathway

Careers in this pathway focus on planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development for all living beings.

5282 - HEALTH SCIENCE EDUCATION I

Two Semesters/3 Periods, Maximum of 6 high school & 6 college credits

Includes skills common to specific health career topics such as patient nursing care, dental care, animal care, medical laboratory, public health, an introduction to health care systems, anatomy, physiology, and medical terminology. Lab experiences 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 post-secondary program of their choice are also included in 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.
- Required Prerequisites:
 - C or better in Anatomy & Physiology, a GPA of 2.5 or higher, or instructor approval

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.

- Dual Credits Offered:
 - Ivy Tech
 - HLHS 100 Introduction to Health Careers
 - HLHS 111 Health and Wellness*
- Dual Credit Requirements: D or better earned
- Nationally Recognized Certifications Offered: CPR/First Aid & Heartsaver Bloodborne Pathogens Certificate

*Health Science Education I is a prerequisite for ALL Health Science Education II courses and is a recommended prerequisite for Emergency Medical Systems.

5248 - HEALTH SCIENCE II: NURSING

Two Semesters/3 Periods, Maximum of 6 high school & 6 college credits

An extended laboratory experience at a clinical site designed to provide students the opportunity to assume the role of a health care provider and practice technical skills previously learned in the classroom, including information on the health care system and employment opportunities at a variety of entry levels, an overview of the health care delivery systems, health care teams and legal and ethical considerations. It prepares students with the knowledge, skills and attitudes essential for providing basic care in extended care facilities, hospitals and home health agencies under the direction of licensed nurses. This course also provides students with the knowledge, attitudes, and skills needed to make the transition from school to work in health science careers, including self-analysis to aid in career selection, job seeking and job maintenance skills, personal management skills, and completion of the application process for admission into a post-secondary program.

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Required Prerequisites:
 - C or better in Health Science I, a GPA of 2.5 or higher, or instructor approval
 - TB screen and a current physical examination on file with instructor

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.

- This course is aligned with the following Post-Secondary courses for Dual Credit:
 - Ivy Tech
 - HLHS 107 C.N.A. Prep
 - 1. HLHS 101 Medical Terminology*
- Dual Credit Requirements: D or better earned
- Nationally Recognized Certifications Offered: CPR/First Aid, Heartsaver Bloodborne Pathogens Certificate, & Certified Nursing Assistant (C.N.A.)

5214 - HEALTH SCIENCE II: PHARMACY

Two Semesters/3 Periods, Maximum of 6 high school & 6 college credits

This program prepares students to apply for their Pharmacy Technician's license. It prepares students with the knowledge, skills and attitudes essential for understanding the duties and responsibilities of the technician and the pharmacist, including the standards of patient confidentiality and ethics governing pharmacy practice; tasks and technical skills, policies, and procedures related to the technician's position; working knowledge of the pharmaceutical-medical terminology, abbreviations, and symbols commonly used in prescriptions and drug orders; working knowledge of the general storage, packaging, and labeling requirements of drugs, prescriptions, or drug orders; ability to perform the arithmetic calculations required for the usual dosage determinations; working knowledge and understanding of the essential functions related to drug purchasing and inventory control; and the record keeping functions associated with prescriptions and drug orders. This course also provides students with the knowledge, attitudes, and skills needed to make the transition from school to work as a pharmacy technician, including self-analysis to aid in career selection, job seeking and job maintenance skills, personal management skills, and completion of the application process for admission into a post-secondary program.

A pharmacy technician is an individual, certified by the Indiana Board of Pharmacy, who works under the direct supervision of a licensed pharmacist and assists the pharmacist in the technical and nonjudgmental functions related to the practice of pharmacy in the processing of prescriptions and drug orders. The pharmacist is responsible for the work performed by the pharmacy technician.

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Required Prerequisites:
 - C or better in Health Science or a GPA of 2.5 or higher
 - A criminal background check is required upon application acceptance for licensure by the Indiana Professional Licensing Agency

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.

- This course is aligned with the following Post-Secondary courses for Dual Credit:
 - Ivy Tech
 1. HLHS 101 Medical Terminology*
- *Passing Accuplacer scores REQUIRED

- Dual Credit Requirements: D or better earned
- Nationally Recognized Certifications Offered: CPR/First Aid, Heartsaver Bloodborne Pathogens Certificate, & Pharmacy Technician Certificate

5215 - HEALTH SCIENCE II: PHYSICAL THERAPY

Two Semesters/3 Periods, Maximum of 6 high school & 6 college credits

This program prepares students to apply for their Physical Therapy Assistant's license. It prepares students with the knowledge, skills and attitudes essential for understanding the duties and responsibilities of the technician and the physical therapist, including the standards of patient confidentiality and ethics governing practice; tasks and technical skills, policies, and procedures related to the technician's position; working knowledge of the physical therapy-medical terminology, abbreviations, and symbols commonly used. This course also provides students with the knowledge, attitudes, and skills needed to make the transition from school to work as a physical therapy assistant, including self-analysis to aid in career selection, job seeking and job maintenance skills, personal management skills, and completion of the application process for admission into a post-secondary program.

A physical therapy assistant is an individual, certified by the Physical Therapy Committee and the Indiana Professional Licensing Board. Physical therapy assistants provide invaluable services to patients experiencing physical discomfort. Working under the supervision of licensed physical therapists, technicians use massage, heat treatment, exercise and other non-invasive means to treat disease, injury and deformity. They use their knowledge of anatomy and physiology—especially the musculoskeletal and nervous systems—to carry out treatment plans prescribed by physicians. Therapeutic methods employed range from hydrotherapy to mat exercises to training in the use of mobility aids such as wheelchairs, canes and crutches. These professionals assist patients with therapeutic exercises, and help to lift, support and safeguard the more severely impaired. Physical therapy assistants play an important role educating patients and their families and motivating them to follow treatment regimens at home. They are sometimes responsible for cleaning tasks, such as disinfecting equipment after treatment and maintaining the chemical balance of therapy pools. In some offices, they also assist with medical records and billing documentation.

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Required Prerequisites:
 - C or better in Health Science I, a GPA of 2.5 or higher, or instructor approval

- A criminal background check is required upon application acceptance for licensure by the Indiana Professional Licensing Agency

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.

- This course is aligned with the following Post-Secondary courses for Dual Credit:
 - Ivy Tech
 1. HLHS 101 Medical Terminology*
*Passing Accuplacer scores REQUIRED
- Dual Credit Requirements: D or better earned
- Nationally Recognized Certifications Offered: CPR/First Aid, Heartsaver Bloodborne Pathogens Certificate, & Physical Therapy Assistants Certificate

5210 - Emergency Medical Services

Two Semesters/3 Periods, Maximum of 6 high school & 6 college credits

Prepares students for a State certification which could lead to a career in Emergency Medical Services such as an Emergency Medical Technician or a Paramedic. This course is designed for persons desiring to perform emergency medical care. 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 transport them to the hospital. This course also addresses the handling of victims of hazardous materials accidents. It covers theories, techniques, and operational aspects of pre-hospital emergency care with the scope and responsibility of the basic emergency medical technician. It requires laboratory practice and clinical observation in a hospital emergency room and ambulance.

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas.
- Required Prerequisites: D or better earned in Health Career Education I or instructor approval

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.

- Dual Credits Offered:
 - IVY Tech:
 - PSAF120: First Responder

Updated 3/7/2014

- PARM 102: Emergency Medical Technician Basic Training*
*Current CPR Certification REQUIRED
- Dual Credit Requirements: D or better earned
- Nationally Recognized Certifications Offered: CPR & First Aid, EMT Certificate



Automotive Technology Pathway

Careers in transportation could include the planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

5514 - AUTOMOTIVE COLLISION REPAIR I

Two Semesters/3 Periods, Maximum of 6 high school & 6 college credits

Includes classroom and laboratory experiences concerned with all phases of the repair of damaged vehicle bodies and frames, including metal straightening; smoothing areas by filing, grinding, or sanding; concealment of imperfections; painting; and replacement of body components including trim. Students examine the characteristics of body metals including the installation of moldings, ornaments, and fasteners with emphasis on sheet metal analysis and safety. Course coverage also includes instruction in personal and environmental safety practices as related to OSHA and other agencies that affect individuals working in the ground transportation technology areas. Additional instruction is given in the course on measurement principles and automotive fasteners. Instruction should also emphasize computerized frame diagnosis, computerized color-mixing, and computerized estimating of repair costs. Additional academic skills taught in this course include precision measurement and mathematical calibrations as well as scientific principles related to adhesive compounds, color-mixing, abrasive materials, metallurgy, and composite materials.

- 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 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.

- Dual Credits Offered:
 - Ivy Tech
 - AUBR 101 Body Repair
- Dual Credit Requirements: D or better earned

- Nationally Recognized Certifications Offered: ASE Certification & I-CAR Certification

5542 - AUTOMOTIVE COLLISION REPAIR II

Two Semesters/3 Periods, Maximum of 6 high school & 6 college credits

Introduces concepts in auto paint considerations with emphasis on the handling of materials and equipment in modern automotive technologies. Instruction should also emphasize computerized frame diagnosis, computerized color-mixing, and computerized estimating of repair costs. Additional academic skills taught in this course include precision measurement and mathematical calibrations as well as scientific principles related to adhesive compounds, color-mixing, abrasive materials, metallurgy, and composite materials.

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas.
- Required Prerequisites: D or better earned in Automotive Collision Repair I or instructor approval.

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.

- Dual Credits Offered:
 - Ivy Tech
 1. AUBR 103 Paint Fundamentals
- Dual Credit Requirements: D or better earned
- Nationally Recognized Certifications Offered: ASE Certification & I-CAR Certification

5510 - AUTOMOTIVE SERVICE TECHNOLOGY I

Two Semesters/3 Periods, Maximum of 6 high school & 6 college credits

This program encompasses the sub topics of the NATEF/ASE identified areas of Steering and Suspension and Braking Systems. Additional areas of manual transmissions and differentials, automatic transmissions, air conditioning, engine repair 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.

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.

- Dual Credits Offered:
 - Ivy Tech
 - AUTC 101 Suspension & Steering
 - AUTC 121 Brakes
- Dual Credit Requirements: D or better earned
- Nationally Recognized Certifications Offered: ASE Certification

5546 - AUTOMOTIVE SERVICE TECHNOLOGY II

Two Semesters/3 Periods, Maximum of 6 high school & 6 college credits

This program encompasses the sub topics of the NATEF/ASE identified areas of Electrical Systems and Engine Performance. Additional areas of manual transmissions and differentials, automatic transmissions, air conditioning, engine repair as time permits. 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.
- Required Prerequisites: D or better earned in Automotive Service Technology I or instructor approval

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.

- Dual Credits Offered:
 - Ivy Tech
 - AUTC 113 Electrical Systems
 - AUTC 109 Engine Performance

Updated 3/7/2014

- Dual Credit Requirements: D or better earned
- Nationally Recognized Certifications Offered: ASE Certification



Construction Technology Pathway

Careers in architecture and construction can include designing, planning, managing, building and maintaining of the built environment.

5580 - CONSTRUCTION TECHNOLOGY I

Two Semesters/3 Periods, Maximum of 6 high school & 6 college credits

Includes classroom and laboratory experiences concerned with the formation, installation, maintenance, and repair of buildings, homes, and other structures. Student will learn the history of building construction to present-day applications emphasizing future trends and construction as a career. This course also provides instruction and practice in the use of working drawings and applications from the print to the work. Includes relationship of views and details, interpretation of dimension, transposing scale, tolerance, electrical symbols, sections, materials list, architectural plans, geometric construction, three dimensional drawing techniques, and sketching will be presented as well as elementary aspects of residential design and site work. Areas of emphasis will include print reading and drawing, room schedules and plot plans. Examines the design and construction of floor and wall systems and student develops the skill needed for layout and construction of floor and wall systems from blueprints and professional planning documents. Instruction will be given in the following areas, administrative requirements, definitions, building planning, foundations, wall coverings, roof and ceiling construction, and roof assemblies. Students will develop an understanding and interpretation of the Indiana Residential Code for one and two-family dwellings and safety practices including Occupational Safety and Health Administration's Safety & Health Standards for the construction industry. In this course, students will build a house and will be outside in all weather.

- 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 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.

- Dual Credits Offered:
 - Ivy Tech
 - CONT 101 Intro to Construction
 - CONT 102 Construction Materials
 - CONT 106 Construction Blueprints
 - CONT 127 Electrical Basics
- Dual Credit Requirements: D or better earned
- Nationally Recognized Certifications Offered: CPR & First Aid, HBI 1, OSHA

5578 - CONSTRUCTION TECHNOLOGY II

Two Semesters/3 Periods, Maximum of 6 high school & 6 college credits

Includes classroom and laboratory experiences concerned with the formation, installation, maintenance, and repair of buildings, homes, and other structures. Student will learn the history of building construction to present-day applications emphasizing future trends and construction as a career. This course also provides instruction and practice in the use of working drawings and applications from the print to the work. Includes relationship of views and details, interpretation of dimension, transposing scale, tolerance, electrical symbols, sections, materials list, architectural plans, geometric construction, three dimensional drawing techniques, and sketching will be presented as well as elementary aspects of residential design and site work. Areas of emphasis will include print reading and drawing, room schedules and plot plans. Examines the design and construction of floor and wall systems and student develops the skill needed for layout and construction of floor and wall systems from blueprints and professional planning documents. Instruction will be given in the following areas, administrative requirements, definitions, building planning, foundations, wall coverings, roof and ceiling construction, and roof assemblies. Students will develop an understanding and interpretation of the Indiana Residential Code for one and two-family dwellings and safety practices including Occupational Safety and Health Administration's Safety & Health Standards for the construction industry. In this course, students will build a house and will be outside in all weather.

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas.
- Required Prerequisites: D or better earned in Construction Technology I or instructor approval

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.

Updated 3/7/2014

- Dual Credits Offered:
 - Ivy Tech
 - BCOT 104 Floor and Wall Layout
 - BCOT 105 Roof Construction
 - BCOT 113 Interior Finish
 - BCOT 114 Exterior Finish
- Dual Credit Requirements: D or better earned
- Nationally Recognized Certifications Offered: CPR & First Aid, HBI 1, OSHA



Welding Technology Pathway

Careers in the welding pathway may involve planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing.

5776 - WELDING TECHNOLOGY I

Two Semesters/3 Periods, Maximum of 6 high school & 6 college credits

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 seeking careers in Welding, Technician, Sales, Design, Research or Engineering. 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.

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.

- Dual Credits Offered:
 - Ivy Tech
 - INDT 114 Intro to Welding
 - WELD 100 Welding Processes
 - WELD 103 ARC Welding
 - WELD 108 Shielded Metal Arc Welding
- Dual Credit Requirements: D or better earned
- Nationally Recognized Certifications Offered: AWS Sense

5778 - WELDING TECHNOLOGY II

Two Semesters/3 Periods, Maximum of 6 high school & 6 college credits

Includes classroom and laboratory experiences that develop a variety of skills in Gas Metal Arc welding, Flux Cored Arc Welding, Gas Tungsten Arc welding, Plasma Cutting and Carbon Arc. This course is designed for individuals who intend to pursue careers as a Welders, Technicians, Sales, Design, Research or Engineering. 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.
- Required Prerequisites: D or better earned in Welding Technology I or instructor approval

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.

- Dual Credits Offered:
 - Ivy Tech
 - WELD 101 Gas Welding I
 - WELD 109 Oxy-Fuel Gas
 - WELD 207 Gas Metal Arc
- Dual Credit Requirements: D or better earned
- Nationally Recognized Certifications Offered: AWS Sense



Public Safety Pathway

Careers in the Public Safety cluster may involve planning, managing, and providing legal, public safety and protective services and homeland security.

5822 - CRIMINAL JUSTICE I

Two Semesters/3 Periods, Maximum of 6 high school & 6 college credits

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.

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.

- Dual Credits Offered:
 - Ivy Tech
 - LAWE 100 Survey of Criminal Justice
 - LAWE 106 Intro to Traffic Control
- Dual Credit Requirements: D or better earned
- Nationally Recognized Certifications Offered: CPR & First Aid, Public Safety Communicator

5824 - CRIMINAL JUSTICE II

Two Semesters/3 Periods, Maximum of 6 high school & 6 college credits

Introduces students to concepts and practices in controlling traffic 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 and search for witnesses, 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.
- Required Prerequisites: D or better earned in Criminal Justice I or instructor approval

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.

- Dual Credits Offered:
 - Ivy Tech
 - LAWE 150 Intro to Criminology
 - LAWE 160 Criminal Investigations
- Dual Credit Requirements: D or better earned
- Nationally Recognized Certifications Offered: CPR & First Aid, Public Safety Communicator

5210 - Emergency Medical Services

Two Semesters/3 Periods, Maximum of 6 high school & 6 college credits

Prepares students for a State certification which could lead to a career in Emergency Medical Services such as an Emergency Medical Technician or a Paramedic. This course is designed for persons desiring to perform emergency medical care. 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 transport them to the hospital. This course also addresses the handling of victims of hazardous materials accidents. It covers theories,

techniques, and operational aspects of pre-hospital emergency care with the scope and responsibility of the basic emergency medical technician. It requires laboratory practice and clinical observation in a hospital emergency room and ambulance.

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas.
- Required Prerequisites: D or better earned in Health Career Education I or instructor approval

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.

- Dual Credits Offered:
 - IVY Tech:
 - PSAF120: First Responder
 - PARM 102: Emergency Medical Technician Basic Training
- Dual Credit Requirements: D or better earned
- Nationally Recognized Certifications Offered: CPR & First Aid, EMT Certificate