Northeastern High School
2018-2019 Course Description Guide

+ Requires teacher approval **** Requires a prerequisite*** ***^ Denotes Dual Credit***

(The numbers of credits indicated are per semester)

AGRICULTURE EDUCATION

	Grade	Credit	Length
Intro. to Ag., Food, and Natural Resources	9 ,10, 11 ,12	1	Y
^Animal Science	9, 10, 11, 12	1	Y
^Horticulture Science	9, 10, 11, 12	1	Y
^Ag Power, Structure, and Tech.	9, 10, 11, 12	1	Y
^Plant & Soil Science	9, 10, 11, 12	1	Y
^Natural Resources	9, 10, 11, 12	1	Y
^Agribusiness Mgmt.	9, 10, 11, 12	1	Y

ART

	Grade	Credit	Length
Intro	9, 10, 11, 12	1	S
Intro to 3 Dimensional Art	9, 10, 11, 12	1	S
Ceramics	9, 10, 11,12	1	S
*Photography	10, 11, 12	1	S
*+Drawing	10, 11, 12	1	S
*+Painting	10, 11, 12	1	S
*+Advanced II Dimensional Art	11, 12	1	Y
* AP Studio Art	11, 12	1	Y

BUSINESS

	Grade	Credit	Length
^Business Law & Ethics	11, 12	1	S
+ICE -Interdisciplinary Coop.	12	3	Y
*Intro to Accounting	10, 11, 12	1	Y
*Business Math	11, 12	1	Y
Introduction to Business	9, 10, 11, 12	1	S
Principles of Marketing	11, 12	1	Y
+Prof. Career Internship	12	1	Y
Digital Apps & Responsibility	9, 10, 11, 12	1	S
Per Financial Responsibility	9, 10, 11, 12	1	S

HEALTH/PHYSICAL EDUCATION

	Grade	Credit	Length
Physical Education 1	9, 10, 11, 12	1	S
Physical Education 2	9, 10, 11, 12	1	S
*+Elective Physical Ed.	10, 11, 12	1	S
Health and Wellness	9, 10, 11, 12	1	S

ENGLISH / LANGUAGE ARTS

	Grade	Credit	Length
Etymology	11, 12 (2nd sem 10)	1	S
Creative Writing	11, 12 (2nd sem 10)	1	S
Novels	10, 11, 12	1	S
English 9	9	1	Y
+Honors English 9	9	1	Y
*English 10	10	1	Y
*Honors English 10	10	1	Y
*English 11	11	1	Y
*Honors English 11	11	1	S
*^Eng. Literature (Lit. 100)	11	1	S
*English 12	12	1	Y
+*^Composition I (101)	12	1	S
+*^Composition II (102)	12	1	S
Library Media	10, 11, 12	1	S

MATH

	Grade	Credit	Length
Algebra Enrichment	9, 10, 11	1	Y
Algebra 1	9, 10, 11, 12	1	Y
*Geometry	9, 10, 11, 12	1	Y
*+Honors Geometry	9	1	Y
*Algebra 2	10, 11, 12	1	Y
*+Honors Algebra 2	10	1	Y
*+Honors Pre-Calculus/Trig.	11	1	Y
*AP Calculus AB	12	1	Y
*^Adv Math- College Algebra	12	1	S
*Finite Math	12	1	Y
Math Lab	10, 11, 12	1	S

MUSIC

	Grade	Credit	Length
*+High School Band	9, 10, 11, 12	1	Y
*Beg. Chorus – Concert Choir	9, 10, 11, 12	1	Y
*+Adv. Chorus- Symphonic Choir	9, 10, 11, 12	1	Y
*Women's Chorus	9, 10, 11, 12	1	Y
*Music History & Appreciation	10, 11, 12	1	S
*Music Theory & Composition	10, 11, 12	1	S
*Damsels – Dance Performance	9, 10, 11, 12	1	Y
*+HS Percussion/Rhythm	9, 10, 11, 12	1	Y
Piano Keyboard	9, 10, 11, 12	1	S or Y

PROJECT LEAD THE WAY (PLTW)

	Grade	Credit	Length
*Intro. to Engineering	9,10,11,12	1	Y

*Prin. of Engineering	10, 11,12	1	Y
*Prin. of the Biomed Sciences	9, 10, 11, 12	1	Y
*Human Body Systems	10, 11, 12	1	Y

SCIENCE

	Grade	Credit	Length
ICP - Intg. Chem-Physics	9, 10, 11, 12	1	Y
*Environmental Science	11, 12	1	Y
Biology 1	9, 10	1	Y
*+ Honors Biology 1	9	1	Y
*Biology, AP	11, 12	1	Y
*Chemistry 1	10, 11, 12	1	Y
*Chemistry 2	11, 12	1	Y
*Physics	11, 12	1	Y
*Anatomy & Physiology	11, 12	1	Y
*Adv Science Special Topics	11, 12	1	Y

SOCIAL STUDIES

	Grade	Credit	Length
World History & Civilization	9, 10, 11, 12	1	Y
Current Events	11, 12	1	S or Y
U.S. History 11	11	1	Y
+*College U.S. History 11	11	1	Y
Sociology	11, 12	1	S
*Psychology	11, 12	1	S
Economics	12	1	S
Government	12	1	S
*College Psychology	11, 12	1	Y
Ethnic Studies	9, 10, 11, 12	1	S
Indiana Studies	9, 10, 11, 12	1	S

WORLD LANGUAGE

	Grade	Credit	Length
*Spanish 1	9, 10, 11, 12	1	Y
*Spanish 2	9, 10, 11, 12	1	Y
*Spanish 3	11, 12	1	Y
*Spanish 4	12	1	Y

RICHMOND AREA CAREER CENTER PROGRAMS

	Grade	Credit	Length
Voc. Automotive Service Tech	11, 12	3	2 Years
Voc. Architectural Drafting & Design	11, 12	3	Y
Voc. Precision Machining (Machine Tool Tech.)	11, 12	3	Y
Voc. Construction Tech I	11, 12	3	Y
Voc. Cosmetology	11, 12	3	2 Years
Voc. Nursing Assistant (CNA)	11, 12	3	S
Voc. Radio & Television	11, 12	3	Y
Voc. Fire & Rescue I	11, 12	3	Y
Voc. Elementary Cadet Teaching	12	2	Y
Voc. Emer Medical Services	11, 12	3	Y

OTHER CLASS OPTIONS

	Grade	Credit	Length
+Cadet	11, 12	0	S or Y
College Entrance Prep	10, 11, 12	1	S
Ivy Tech	11, 12	1	S
IU East	11, 12	1	S
+Study Skills	9, 10, 11, 12	1	S or Y

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Academic Policies and Procedures

SCHEDULE CHANGE REQUEST PROCEDURE

Schedule changes may be made through stated spring deadline. After this date, changes will be made only due to special circumstances. Students and parents should carefully consider all course requests prior to meeting with their school counselor to schedule courses for the upcoming school year. Students leaving for summer vacation should consider course requests made at the time of scheduling as final.

Schedule changes after the spring deadline will be administratively granted under the following circumstances:

· Administrative error in scheduling (i.e. original student requests were not entered correctly)
· Need to balance class sizes
· Student failed a second semester class in a required subject
· Documented physical or mental condition requires a modification in the schedule
· Special education consideration
· Student is academically misplaced in the course (has not completed pre-requisites, new enrollee misplaced)
· Principal

Students may not change their schedules due to instructor preference. (Approval of all schedule change requests is subject to consideration involving maximum and minimum class size.) Except under very special circumstances, any student who withdraws from a class after the second week will receive a "WF" (Withdrawal Failure) as a semester grade for the class.

FULL TIME STUDENT - - Every student enrolled is to be a full-time student. Students must be enrolled in at least six credit courses. There is no provision for part-time status without a case-conference or administrative conference.

Academic Information

1. Northeastern High School students who earn a 3.00 or above are placed on the honor roll. The honor roll is computed at the end of each grading period and end of each semester.

2. Report cards will be issued at the end of each grading period.

3. Students who receive an INCOMPLETE in a class will have one (1) week from the end of that nine (9) week grading period to turn in work to the classroom teacher. If work is not turned in, the INCOMPLETE will automatically become an "F". Special circumstances will need to be discussed with your school counselor and teacher and require final approval from the principal.

4. To be eligible scholastically for interscholastic athletics, students must have received passing grades at the end of their last grading period in school in at least five full credit subjects or the equivalent and must be currently passing in a least five full credit subjects or the equivalent. (Semester grades take precedence).

5. National Collegiate Athletic Association Guidelines for college athletes must be met. Guidelines are available on the school counselor website.

In order to graduate with your cohort class, students must earn the minimum number of credits each year:

Sophomores	10 credits
Juniors	18 credits
Seniors	29 credits

Grade Amendment

With approval of the teacher or administrator, a student may retake a class in which the student received a C- or below. The course grade will be changed on the transcript if it is higher than the original grade.

How to Earn Credits

For each class successfully completed per semester, one (1) credit will be given.

Example:

A. One (1) semester of mathematics, one (1) credit earned

B. One (1) year or two (2) semesters of mathematics, two (2) credits earned

Semester Attendance Policy/Loss of Credits

The loss of credit is serious and can ultimately affect the student's graduation. Students who have lost credit in more than half of his/her scheduled classes due to the accumulation of absences may forfeit the right to remain in school for the remainder of the semester. The principal reserves the right to review each of the 8 absences or more during a semester as an individual case. Extenuating circumstances, (such as hospitalization, homebound, etc.) may be considered in specific cases.

Weighted Grade Policy

The weighted grade policy is designed to provide students with a grading scale that rewards them for pursuing academically challenging courses that exceed the rigor of the standard curriculum. The weighted GPA is used for all internal recognition such as academics lettering, honor roll status, National Honor Society selection, graduation status, class ranking, and any other recognition given to students. Courses that qualify for weighted status include: (English Composition 101 and 102; Literature 100, College US History; AP Calculus, AP Biology, College Psychology, College Algebra, and College Finite Math. The weighted status will be figured by adding .3 (for each weighted course taken) to the regular GPA. In order to be given the .3 weight the student must receive at least a "C" or better.

Grade Point Average

Computed based on the following scale:

A	4.00	C	2.00		
A-	3.67	C-	1.67	WF	Withdrawn Failing
B+	3.33	D+	1.33	NC	No Credit
B	3.00	D	1.00	I	Incomplete
B-	2.67	D-	.67		
C+	2.33	F	.00		

Class Rank

Class ranking is based upon the student's Grade Point Average. Each final letter grade for the semester is assigned a point value as listed above. The student's Grade Point Average (GPA) is calculated by the total number of points divided by total credits attempted. The students are then ranked from the highest GPA to the lowest GPA based upon his/her Grade Point Average. This placement determines his/her Class Rank. These calculations are based upon cumulative semester grades earned for high school credit. Class rank is figured at the end of each semester.

C A R E E R P A T H W A Y S

What Are the Six Career Pathways?	Is This Career Path for You?	Career Categories	Courses in School	Sample Careers and Levels of Education Required
Arts and Communication Careers in this path are related to the humanities and performing, visual, literary, and media arts. These include architecture; graphic, interior, and fashion design; writing; film; fine arts; journalism; languages; media; advertising; and public relations.	Are you a creative thinker? Are you imagina-tive, innovative, and original? Do you like to communicate ideas? Do you like making crafts, drawing, playing a musical instrument, taking photos, or writing stories? This may be the career path for you!	Advertising and Public Relations Creative Writing Film Production Foreign Languages Journalism Radio and TV Broadcasting	Journalism Graphic Arts Language Arts Fine Arts Courses (Arts, Drama, Music) Architectural Drafting and Design Sculpture Photography	Public Relations Executive *UG* Dancer *D* Film Producer *HS* Fashion Designer *UG* Journalist *UG* Radio and TV Broadcaster *HS*
Business, Management, Marketing, and Technology Careers in this path are related to the business environment. These include entrepreneur, sales, marketing, computer/information systems, finance, accounting, personnel, economics, and management.	Do you enjoy being a leader, organizing people, planning activities, and talking? Do you like to work with numbers or ideas? Do you enjoy carrying through with an idea and seeing the end product? Do you like things neat and orderly? Would you enjoy balancing a checkbook, follow-ing the stock market, holding an office in a club, or surfing the Internet? This may be your career path!	Accounting Office Administration Business Ownership Economics Personnel Hospitality/Tourism Management Computer/Information Systems Marketing Sales Finance	Math Language Arts Computer Science Business Management Entrepreneurship Computer Support Accounting Marketing	Loan Officer *UG* Economist *UG* Legal Secretary *HS* Hotel Manager *HS* Office Manager *HS* Computer Programmer *HS* Salesperson *D* Travel Agent *HS*

Engineering/Manufacturing and Industrial Technology Careers in this path are related to technologies necessary to design, develop, install, and maintain physical systems. These include engineering, manufacturing, construction, service, and related technologies.	Are you mechanically inclined and practical? Do you like reading diagrams and blueprints, and drawing building structures? Are you curious about how things work? Would you enjoy painting a house, repairing cars, wiring electrical circuits, or woodworking? This may be the career path for you!	Architecture Precision Production Mechanics and Repair Manufacturing Technology Engineering and Related Technologies Drafting Construction	Drafting Science Robotics Machine Tools Physical Sciences/Physics Industrial/Mechanical Drafting Math Electronics	Architect *G* Plumber *HS* Electrician *HS* Air Traffic Controller *HS* Auto Mechanic *HS* Chemical Engineer *UG* Draftsman *HS* Surveyor *HS* Geographer *UG*
Health Sciences Careers in this path are related to the promotion of health and treatment of disease. These include research, prevention, treatment, and related health technologies.	Do you like to care for people or animals who are sick or help them stay well? Are you interested in diseases and in how the body works? Do you enjoy reading about science and medicine? Would it be fun to learn first aid or volunteer at a hospital or veterinary clinic? This may be your career path!	Dentistry Hygiene Medicine Nursing Nutrition and Fitness Therapy and Rehabilitation	Language Arts Biological Sciences Chemistry Health Education Animal Care Nutrition Math Physics	Dentist *G* Dental Hygienist *HS* Doctor *G* Veterinary Technician *HS* Respiratory Therapist *HS* Physical Therapist *UG*

Human Services Careers in this path are related to economic, political, and social systems. These include education, government, law and law enforcement, leisure and recreation, military, religion, child care, social services, and personal services.	Are you friendly, open, understanding, and cooperative? Do you like to work with people to solve problems? Is it important to you to do something that makes things better for other people? Do you like to help friends with family problems? Do you like reading, storytelling, traveling, or tutoring young children? This could be your career path!	Human Services Education Child and Family Services Food and Beverage Service Law and Legal Studies Law Enforcement Cosmetologist Social Services	History Political Science Social Studies Language Arts Cosmetology Psychology Culinary Arts Child Care	Chef *HS* Teacher *UG* Lawyer *G* Police Detective *HS* Cosmetologist *HS* Social Worker *UG* Librarian *G* Firefighter *HS*
Natural Resources and Agriscience Careers in this path are related to agriculture, the environment, and natural resources. These include agricultural sciences, earth sciences, environmental sciences, fisheries, forestry, horticulture, and wildlife.	Are you a nature lover? Are you practical, curious about the physical world, and interested in plants and animals? Do you enjoy hunting or fishing? Do you like to garden or mow the lawn? Are you interested in protecting the environment? This could be your career path!	Agriculture Animal Health Care Earth Sciences Environmental Science Fisheries Management Wildlife Management Horticulture Forestry Life Sciences	Agriculture Astronomy Chemistry Biological Sciences Animal Science Math Botany Geography	Farmer *HS* Oceanographer *UG* Physicist *G* Landscaper *D* Marine Biologist *G* Conservation Agent *UG* Chemist *UG* Forester *UG*

Education Level Key: *High School Diploma: D 1 to 2 Years Past High School: HS*
Undergraduate Degree: UG Graduate Degree: G

View pdf version (includes pictures)

AP and Dual Credit Course Offerings at NHS

Dual credit is the term given to courses in which high school students have the opportunity to earn both high school and college credits simultaneously. For AP courses, a final AP exam is given in May. Students who earn a score of 3, 4, or 5 may be awarded college credit at the institution they will be attending. *The institution determines credit awarded for AP courses.

HS/College Course	University	Grade Level	Credit	Prerequisite Passed ISTEP Math and English	Cost
Hist. 139/140	Vincennes	11	3 ea. Sem.	PSAT 21 R & 22 W or Accuplacer 59 R & 68 SS SAT 510 or ACT 18 R & 15 Eng	$75 tuition per sem.
AP Calculus		12	*	Complete Honors Pre-Cal with a B- or better	Paid by state
AP Biology		11,12	*	Chemistry 1 C or better and teacher recommendation	Paid by state
Literature 101	Vincennes	11	3	SAT 510 or PSAT 23 R or Accuplacer 75 R or ACT 21	$75 tuition
Comp 101/102	Vincennes	12	3 ea. Sem.	SAT 510 or PSAT 23 R and 25 W, or ACT 21 R and 18 English or Accuplacer 75 R and 80 SS	$75 tuition per sem. Book fees TBA
College Algebra 136	IVY Tech	10, 12	3	SAT 550 M or PSAT 27 or ACT 24 M or Accuplacer 74-120	
College Finite Math	IVY Tech	11	3	SAT 550 M or PSAT 27 or ACT 24 M or Accuplacer 74-120	
College Psychology	IVY Tech	11, 12	3	PSAT 25 R, 27 W or SAT 510 ERW, or GPA 3.0	

It is the student's responsibility to contact either Vincennes or IVY Tech to have their credit(s) transferred to the university they plan to attend. The course instructor will provide direction, but neither the instructor nor the guidance counselor can transfer the college credit.

NHS Agriculture Department offers a variety of dual credit courses (IVY Tech). Please check the curriculum guide or speak with Mr. Roll.

REQUIRED COURSES/FOUR YEAR PLAN

NAME _____ **Counselor**_____ **Graduation Year** _____

Career Choices_____

College Choices_____

FRESHMEN YEAR	1st Sem.	2nd Sem.	Credits		SOPHOMORE YEAR	1st Sem.	2nd Sem.	Credits
English 9					English 10			
Math					Math			
Science					Science			
Physical Education (2 sem.)					Health (1 sem.)			
World History								
Digital Apps & Responsibilities								
Semester Total Credit					Semester Total Credit			
		Total Credits YTD					Total Credits YTD	

JUNIOR YEAR	1st Sem.	2nd Sem.	Credits		SENIOR YEAR	1st Sem.	2nd Sem.	Credits
U.S. History (2 sem.)					Government (1 sem.)			
English 11					Economics (1 sem.)			
Math					Senior English			
Science					Math			
Semester Total Credits					Semester Total Credits			
		Total Credits YTD					Total Credits YTD	

Agriculture Education

Intro to Agriculture, Food, and Natural Resources - 5056

Length: **1 Year**
Grade: **8, 9, 10, 11, 12**
Semester Credit: **1**
Prerequisite: **None**

Introduction to Agriculture, Food and Natural Resources is a two semester course that is highly recommended as a prerequisite to and a foundation for all other agricultural classes. The nature of this course is to provide students with an introduction to the fundamentals of agricultural science and business. Topics to be covered include: animal science, plant and soil science, food science, horticultural science, agricultural business management, landscape management, natural resources, agriculture power, structure, and technology, careers in agriculture, leadership, and supervised agricultural experience. An activity and project based approach is used along with team building to enhance the effectiveness of the student learning activities. This course counts as an elective credit and may be taken as an 8th grader for high school credit.

Animal Science - 5008

Length: **1 Year**
Grade: **9, 10, 11, 12**
Semester Credit: **1**
Prerequisite: **Intro To Ag, Food and Natural Resources (preferred)**

Animal Science is a two semester program that provides students with an overview of the field of animal science. Students participate in a large variety of activities and laboratory work including real and simulated animal science experiences and projects. All areas that the students study can be applied to both large and small animals. Topics to be addressed include: anatomy and physiology, genetics, reproduction; nutrition, careers in animal science, common diseases and parasites, social and political issues related to the industry, and management practices for the care and maintenance of animals. Science credit for general diploma only. **This class can be taken as an Ivy Tech Dual Credit class.**

Horticulture Science - 5132

Length: **1 Year**
Grade: **9, 10, 11, 12**
Semester Credit: **1**
Prerequisite: **Intro to Ag, Foods and Natural Resources**

Horticultural Science is a two semester course designed to give students a background in the field of horticulture and its many career opportunities. It addresses the biology and technology involved in the production, processing, and marketing of horticultural plants and products. Topics covered include: reproduction and propagation of plants, plant growth, growth media, management practices for field and greenhouse production, marketing concepts, production of plants of local interest, and pest management. Students participate in a variety of activities including extensive laboratory work usually in a school greenhouse. This course is very hands on. Science credit for general diploma. **This class can be taken as an Ivy Tech Dual Credit class.**

Agriculture Power, Structure, and Technology - 5088

Length: **1 Year**
Grade: **9, 10, 11, 12**
Semester Credit: **1**
Prerequisite: **Intro. To Ag, Food and Natural Resources (preferred)**

Agriculture Power, Structure and Technology is a two semester, lab intensive course in which students develop an understanding of basic principles of selection, operation, maintenance, and management of agricultural equipment in concert with the utilization of technology. Topics covered include: safety, electricity, plumbing, concrete, carpentry, metal technology, engines, emerging technologies, leadership development, supervised agricultural experience, and career opportunities in the area of agriculture power, structure, and technology. **This class can be taken as an Ivy Tech Dual Credit class.**

Plant & Soil Science - 5170

Length: **1 Year**
Grade: **9, 10, 11, 12**
Semester Credit: **1**

Prerequisites: **Intro. To Ag, Food and Natural Resources**

Plant and Soil Science is a two semester course that provides students with opportunities to participate in a variety of activities including laboratory work. Topics covered include: the taxonomy of plants, the various plant components and their functions, plant growth, plant reproduction and propagation, photosynthesis and respiration, environmental factors affecting plant growth, diseases and pests of plants and their management, biotechnology, the basic components and types of soil, calculation of fertilizer application rates and procedures for application, soil tillage and conservation, irrigation and drainage, land measurement, cropping systems, precision agriculture, principles and benefits of global positioning systems, harvesting, and career opportunities in the field of plant and soil science. Science credit for general diploma only. **This class can be taken as an Ivy Tech Dual Credit class.**

Natural Resources - 5180

Length: **1 Year**
Grade: **9, 10, 11, 12**
Semester Credit: **1**
Prerequisites: **Intro. To Ag, Food and Natural Resources**

Natural Resources is a two semester course that provides students with a background in natural resources. Hands-on learning activities encourage students to investigate areas of environmental concern. Students are introduced to the following areas of natural resources: soils, the water cycle, air quality, outdoor recreation, forestry, rangelands, wetlands, animal wildlife, safety, careers, leadership, and supervised agricultural experience programs. **This class can be taken as an Ivy Tech dual credit class.**

Agribusiness Management - 5002

Length: **1 Year**
Grade: **9, 10, 11, 12**
Semester Credit: **1**
Prerequisite: **Intro. To Ag, Food and Natural Resources**

Agribusiness Management provides foundation concepts in agricultural business. It is a two semester course that introduces students to the principles of business organization and management from a local and global perspective, with the utilization of technology. Concepts covered in the course include; food and fiber, forms of business, finance, marketing, management, sales, careers, leadership development, and supervised agricultural experience programs. **This course can be taken as an Ivy Tech dual credit class.**

Art

Introduction to 2 Dimensional Art - 4000

Length: **1 Semester**
Grade: **9, 10, 11, 12**
Semester Credit: **1**
Prerequisite: **None**

Introduction to Two-Dimensional Art is a course based on the Indiana Academic Standards for Visual Art. Students taking this course engage in sequential learning experiences that encompass art history, art criticism, aesthetics, production, and integrated studies and lead to the creation of portfolio quality works. Students will be introduced to several drawing and painting techniques in mediums such as pencil, charcoal, pastel, color pencil, acrylic and watercolor. Students will also be introduced to a variety of past and contemporary artist relevant to the mediums.

Introduction to 3 Dimensional Art - 4002

Length: **1 Semester**
Grade: **9, 10, 11, 12**
Semester Credit: **1**
Prerequisite: **None**

Introduction to Three-Dimensional Art is a course based on the Indiana Academic Standards for Visual Art. Students taking this course engage in sequential learning experiences that encompass art history, art criticism, aesthetics, production, and integrated studies. Using materials such as plaster, clay, metal, paper, was, and plastic, students create portfolio quality works. They create realistic and abstract sculptures utilizing subtractive and additive processes of carving, modeling, construction, and assembling. Students will be introduced to several focus artists relevant to the medium.

Advanced 2 Dimensional Art – 4000A

Length: **1 Year** **(Sem. 1- Adv. Drawing) - (Sem. 2 – Adv. Painting)**
Grade: **11, 12**
Semester Credit: **1**
Prerequisite: **Must complete & pass 2-D, 3-D, Drawing, & Painting – Needs teacher approval**

Advanced Art is an opportunity for students seriously interested in art to work independently and explore their artistic ideas and vision. This class builds on the skills introduced in Drawing & Painting. It presents a more in-depth study of observational and abstract approaches to drawing, study of watercolor, and acrylic painting styles and techniques. Students will gain an understanding of how to use different art mediums and gain self-confidence and the ability to put down on paper what you really see. Emphasis will be placed on the creative thought process, individual creativity and craftsmanship.

Ceramics - 4040

Length: **1 Semester**
Grade: **10, 11, 12**
Semester Credit: **1**
Prerequisite: **Intro to 3D Art**

Ceramics is a course based on the Indiana Academic Standards for Visual Art. Students in ceramics engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. Students create works of art in clay utilizing the processes of hand building, molds, wheel throwing, slip and glaze techniques, and the firing processes. They reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Student utilize the resources of art museums, galleries, and studios, and identify art-related careers.

Photography - 4062

Length: **1 Semester**
Grade: **10, 11, 12**
Semester Credit: **1**
Prerequisite: **None**

****Students must supply their own digital camera, USB cord, batteries, and memory card.****

Photography is a course based on the Indiana Academic Standards for Visual Art. Students in photography engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. Students will be introduced to several photography techniques and digital editing processes. They will also be introduced to past and contemporary photographers and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

Drawing - 4060

Length: **1 Semester**
Grade: **10, 11, 12**
Semester Credit: **1**
Prerequisite: **B Average in Introduction to 2D**

Drawing is a course based on the Indiana Academic Standards for Visual Art. Students in drawing engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. Students will be introduced to life drawing and use a variety of media such as pencil, color pencil, pastels, charcoal, collage and ink. They will reflect upon and refine their work, explore cultural and historical connections and incorporate literacy and presentational skills. Students will also utilize the resources of art museums, galleries, and studios, and identify art-related careers.

Painting - 4064

Length: **1 Semester**
Grade: **10, 11, 12**
Semester Credit: **1**
Prerequisite: **B average in Introduction to 2D**

Painting is a course based on the Indiana Academic Standards for Visual Art. Students taking painting engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production that lead to the creation of portfolio quality works. Students will create realistic, abstract, and nonobjective paintings using a variety of materials such as acrylic, oil, watercolor, and mixed media. They will reflect upon and refine their work, explore cultural and historical connections and incorporate literacy and presentational skills. Students will also utilize the resources of art museums, galleries, and studios, and identify art-related careers.

AP Studio Art - Drawing Portfolio- 4080

Length: **One year**
Grade: **11, 12**
Prerequisite: Drawing 1 and teacher recommendation

This course is designed for students who are seriously interested in the practical experience of art. Students submit portfolios for evaluation at the end of the school year. AP studio art students create a portfolio of work to demonstrate the artistic skills and ideas they have developed, refined and applied over the course of the year to produce visual compositions.

BUSINESS

Business Law & Ethics - 4560

Length: 1 Semester
Grade: 11, 12
Semester Credit: 1
Prerequisite: Pass English 10 ECA

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.

Intro to Accounting - 4524

Length: 1 Year
Grade: 10, 11, 12
Semester Credit: 1
Prerequisite: Algebra 1

Introduction to Accounting introduces the language of business using accounting principles 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.

Interdisciplinary Cooperative Education ICE - 5902

Length: 1 Year
Grade: 12

Semester Credit: 3 (1 credit ICE Class/2 credits ICE Work)
Prerequisite: Application and acceptance into program
Interdisciplinary Cooperative Education is a career and technical education business course that provides opportunities for students to gain skills and knowledge through on-the-job training and related classroom instruction. Time allocations are a minimum of fifteen hours per week of work-based learning and approximately five hours per week of school-based instruction. The classroom instruction may be a blend of both group and individual instruction planned and organized with activities focused on career objectives and on-the-job training. Students participating in these structured experiences will follow class, school, State and Federal guidelines. Students will be paid in accordance with all State and Federal laws pertaining to employment. Credit will be granted for both the related instruction and on-the-job training.

Business Math - 4512
Length: 1 Year
Grade: 11, 12
Semester Credit: 1
Prerequisite: Algebra 1
(May be used for math credit requirement for Gen. Diploma only; otherwise this course is a direct elective.)
Business Math is a business course designed to prepare students for roles as entrepreneurs, producers,
and business leaders by developing abilities and skills that are part of any business environment. A solid understanding of math including advanced algebra, basic geometry, statistics and probability provides the necessary foundation for students interested in careers in business and skilled trade areas. The content includes advanced mathematical operations, including applied technology, related to accounting, banking and finance, marketing, and management.

Introduction to Business - 4518
Length: 1 Semester
Grade: 9, 10, 11, 12
Semester Credit: 1
Prerequisite: None
Introduction to Business introduces students to the world of business, including the concepts, functions, and skills required for meeting the challenges of operating a business in the twenty-first century on a local, national, and/or international scale. The course covers business management, entrepreneurship, marketing fundamentals, and business ethics and law. The course develops business vocabulary and provides an overview of business and the role that business plays in economic, social, and political environments.

Principles of Marketing -5914
Length: 1 Year
Grade: 11,12
Semester Credit: 1
Principles of Marketing provides 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. An emphasis will be placed on Sports Marketing.

Professional Career Internship - 5250
Length: 1 Semester or 1 Year
Grade: 12
Semester Credit: 1
Prerequisite: Application and acceptance into program; no truancies, no academic or social probation in previous semester; no behavior problems; own transportation.
Professional Career Internship is a College and Career Readiness course that is designed to provide opportunities for students to explore careers that require additional degrees or certifications following high school. Recommended for the academic student who would like to experience a career area before pursuing it at the college level. Students work regularly in the morning or after school for a minimum of one hour per day in a company and position that is pre arranged for the student. This is not a paid position, and the student receives one credit per semester as well as a grade for job performance. Students can intern for one occupational area per semester. Expectations of the student are outlined in a learning contract and must be followed for continued program participation. Because students do not meet as a class, daily written documentation is required and submitted by student.

Digital Applications and Responsibility - 4528

Length: 1 Semester
Grade: 9, 10, 11, 12
Semester Credit: 1
Prerequisite: None

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

Personal Financial Responsibility - 4540

Length: 1 Semester
Grade: 9, 10, 11, 12
Semester Credit: 1
Prerequisite: None

Personal Financial Responsibility addresses the identification and management of personal financial resources to meet the financial needs and wants of individuals and families, considering a broad range of economic, social, cultural, technological, environmental, and maintenance factors. This course helps students build skills in financial responsibility and decision making; analyze personal standards, needs, wants, and goals; identify sources of income, saving and investing; understand banking, budgeting, record-keeping and managing risk, insurance and credit card debt. A project based approach and applications through authentic settings such as work based observations and service learning experiences are appropriate. Direct, concrete applications of mathematics proficiencies in projects are encouraged.

HEALTH / PHYSICAL EDUCATION

Physical Education 1 - 3542

(This course is required to meet state graduation requirements, Academic Honors Diploma, and Core 40 requirements.)

Length: **1 Semester**
Grade: **9, 10, 11, 12**
Semester Credit: **1**
Prerequisite: **None**
Cost: **Lock Rental and Skatetime ($10.00) & Uniform ($15.00) (subject to change)**

The main emphasis of this course is to develop physical and social skills through team sports, provide skills and knowledge for carry-over in lifetime activities, and to develop and promote physical fitness. This program includes skill development and the application of rules and strategies of complex difficulty in at least three of the following different movement forms: health-related fitness activities (cardiorespiratory endurance, muscular strength and endurance, and body composition), aerobic exercise, team sports, individual and dual sports, dance and recreational games, including skating. On-going assessment includes both written and performance based skill evaluations.

* Classes are coeducational unless the activity involves bodily contact or groupings are based on an objective standard of individual performance developed and applied without regard to gender.

* Adapted physical education is offered, as needed, in the least restrictive environment and must be based on individual assessment.

Physical Education 2 - 3544

(This course is required to meet state graduation requirements, Academic Honors Diploma, and Core 40 requirements.)

Length: **1 Semester**
Grade: **9, 10, 11, 12**
Semester Credit: **1**
Prerequisite: **Secondary Physical Education I**
Cost: **Lock Rental and Skatetime ($10.00) and Uniform ($15.00) (subject to change)**

The main emphasis of this course is to develop physical and social skills through team sports, provide skills and knowledge for carry-over in lifetime activities, and to develop and promote physical fitness. This course provides students with opportunities to achieve and maintain a health-enhancing level of physical fitness and increase their knowledge of fitness concepts. It includes at least three different movement forms without repeating those offered in Secondary Physical Education I. Movement forms may include: health-related fitness activities (cardiorespiratory endurance, muscular strength and endurance, flexibility, and body composition), aerobic exercise, team sports, individual

and dual sports, outdoor pursuits, self-defense, dance, and recreational games. Ongoing assessments include both written and performance-based skill evaluations. This course will also include a discussion of related careers.

* Classes are coeducational unless the activity involves bodily contact or groupings are based on an objective standard of individual performance developed and applied without regard to gender.

* Adapted physical education is offered, as needed, in the least restrictive environment and must be based on individual assessment.

*Assessment includes both written and performance-based skill evaluation. Classes are coeducational unless the activity involves bodily contact or groupings are based on an objective.

Elective Physical Education - 3560

Length:	**1 Semester or full year**
Grade:	**10, 11, 12**
Semester Credit:	**1 (A maximum of six credits can be earned provided that there is no course or skill level duplication)**
Prerequisite:	**Secondary Physical Education I and II with a "B-" average grade or better *AND teacher approval. JV-Varsity Athlete, cheerleader, Damsel. No more than 20 students.***
Cost:	**Lock Rental and Skatetime ($10.00) and Uniform ($15.00) (subject to change)**

The emphasis of this course is to include the study of physical development concepts and exercise. The following activities will enhance this learning: health-related fitness activities, cardiorespiratory endurance, muscular strength and endurance, flexibility, archery and body composition. Students will have the opportunity to design and develop an appropriate personal fitness program that enables them to achieve a desired level of fitness. Ongoing assessment includes both written and performance-based skill evaluation. These students will also skate in the Fall semester.

Health and Wellness - 3506

(This course is required to meet state graduation, Academic Honors Diploma, and Core 40 requirements)

Length:	**1 Semester**
Grade:	**9, 10, 11, 12**
Semester Credit:	**1**
Prerequisite:	**None**

High school health education provides the basis for continued methods of developing knowledge, concepts, skills, behaviors, and attitudes related to student health and well-being. This course includes the major content areas in a planned, sequential, comprehensive health education curriculum as expressed in the Indiana Health Education Proficiency Guide: Growth and Development; Mental and Emotional Health; Community and Environment Health; Nutrition; Family Life Education; Intentional and Unintentional Injury; and Health Promotion and Disease Prevention. This course assists students in understanding that health is a lifetime commitment by analyzing individual risk factors and health decisions that promote health and prevent disease. Students are also encouraged to assume individual responsibility for becoming competent health consumers.

ENGLISH / LANGUAGE ARTS

Students who enroll in Honors, AP, or dual credit English courses can expect a vigorous, college preparatory or college level curriculum. These courses include a variety of reading selections, both required and of the student's choosing. The reading for these courses is intended to fully prepare students for college level work. As a result, some of the reading material is of a more mature nature. Please review the required reading list prior to the start of the school year. If you have any questions or concerns regarding the reading, please address these with the teacher prior to the start of school.

Novels - 1042

Length: **1 Semester**
Grade: **11, 12**
Semester Credit: **1**
Prerequisite: **Recommendation of English Department**

Students will explore a variety of genres through a reading and writing workshop approach. Students will be expected to read extensively, both in and out of class, and to respond to the reading through a variety of written formats. This course is not open for enrollment without teacher recommendation. Students must have the recommendation of the English Department to be placed in this course. Individual student recommendations may not exceed a limit of two one-semester sessions.

Language Arts Lab - 1010

Length: **1 Semester**
Grade: **11, 12**
Semester Credit: **1 elective credit**
Prerequisite: **Recommendation of English Department**

Language Arts Lab is a supplemental course that provides students with individualized or small group instruction designed to support success in completing course work aligned with the *Indiana Academic Standards for English Language Arts*.

English 9 - 1002
(AHD, CORE 40)

Length: **1 Year**
Grade: **9**
Semester Credit: **1**
Prerequisite: **None**

Students will study literature, writing and oral communications. Students will read short stories, poetry, drama, a novel, and nonfiction selections. Reading comprehension, along with the main elements and conventions of literature, will be emphasized. Students will focus on writing organized essays using Standard English. Students will also be introduced to prefix, root and suffix meaning in order to build vocabulary.

Honors English 9 – 1002H
(AHD, CORE 40)

Length: **1 Year**
Grade: **9**
Semester Credit: **1**
Prerequisite: Honors Criteria: Students must earn a B average in previous Honors English classes, an A average in general English classes and/or receive a teacher recommendation;

The focus of this class will be on developing writing, reading and speaking skills. Students will read many poems, short stories, as well as several novels and dramas. Writing development and organization of thought will be emphasized. They will be exposed to a variety of writing styles and work on developing their own. Students will also be introduced to prefix, root and suffix meaning in order to build vocabulary. This class will prepare students for academic or Advanced Placement classes.

English 10 - 1004

(AHD, CORE 40)

Length: **1 Year**

Grade: **10**

Semester Credit: **1**

Prerequisite: **Successfully complete English 9**

The student will study literature, grammar, vocabulary, spelling, composition, and speech skills. The student will also develop skills of literary interpretation and comprehension. Basic grammar will be reviewed and applied to improve writing and speaking skills. Sentence and paragraph writing, as well as critical compositions, will be developed.

Honors English 10 – 1004H

(AHD, CORE 40)

Length: **1 Year**

Grade: **10**

Semester Credit: **1**

Prerequisite: **Honors Criteria: Students must earn a B average in previous Honors English classes, an A average in general English classes and/or receive a teacher recommendation;**

Emphasis in this class is on critical thinking, reading, and writing skills as well as beginning analysis of both literary works and personal writing. Writing will be primarily nonfiction as students begin to explore analysis through writing. Students will be required to read outside of class and to complete written responses to that reading. Additional focus will be placed on building vocabulary skills. This course is strongly recommended for the student planning to take A.P. English.

English 11 - 1006

(AHD, CORE 40)

Length: **1 Year**

Grade: **11**

Semester Credit: **1**

Prerequisite: **Successfully complete English 10**

This course will enable students to better understand the development of American literature from the mythology of the early Native Americans to the present day. Throughout the year students will study the novels, short stories, essays, speeches, poetry, and memoirs, of the people who have shaped the various literary movements of American Literature, as well as the history that influenced its writers. Critical thinking will be emphasized, with special attention to the *why* and *how* of the subject, through large and small group discussion, as well as writing. In particular students will focus on constructing persuasive compositions that demonstrate their ability to create and support well reasoned arguments. Projects, presentations, and other creative activities will be incorporated into the class to reinforce the material presented in the course.

Honors English 11 – 1006H

(AHD, CORE 40)

Length: **1 Semester**

Grade: **11**

Semester Credit: **1**

Prerequisite: **Honors Criteria: Students must earn a B average in previous Honors English classes, an A average in general English classes and/or receive a teacher recommendation;**

Students enrolled in this course will complete an in-depth study of American Literature through novels, short stories, and the analysis of primary and secondary documents. Additionally, students will conduct research, write analytically, and demonstrate command of the grammar and mechanics of the English language. Students enrolled in this course should be prepared to study literature at a college level.

English Literature (Literature 100) - 1030

(AHD, CORE 40)

Length: **1 Semester**

Grade: **11**

Prerequisite: **Meet standards of Vincennes University; minimum score of 420 Critical Reading and Writing SAT score or 42 PSAT Critical Reading and Writing score or 89 Reading Accuplacer score. Cost: Approximately $50.00 plus tuition of $75.00 (fees subject to change)**

This is a dual credit course designed to introduce students to the three main genres of literature: poetry, fiction, and drama. By a careful reading of representative texts from each genre, students should gain a general appreciation of the value of literature and begin to understand the enjoyment that literature of all types provides. Students will be required to complete extensive reading outside of class, discuss during class, and write in response to literature.

English 12 - 1008

(AHD, CORE 40)

Length: **1 Year**

Grade: **12**

Semester Credit: **1**

Prerequisite: **Successfully complete English 11**

This course is designed to help students to be better thinkers and organize those thoughts clearly. Literature in the course will emphasize British literature, and students will analyze this and other philosophical literature to see how the language and ideas of our culture developed. Students will use and develop English skills to examine their past and present and prepare for their future.

Composition (English 101) – ADV ENG CC - 1124

(AHD, CORE 40)

Length: **1 Semester**

Grade: **12**

Semester Credit: **1**

Prerequisite: **Meet standards of Vincennes University or sponsoring school; minimum score of 420 Critical Reading and 440 Writing SAT or Reading 21, English 18 ACT or Reading 89, SS 80 Accuplacer. Have a senior standing or be recommended by the high school principal or counselor as exceptional.**

Cost: **Approximately $100.00 for books plus tuition of $75.00 (fees subject to change)**

Composition (English 101) is a dual credit class, emphasizing academic writing that students will encounter during their college years. The students will use appropriate outside sources to analyze an issue or argue a point of view. Basic skills of grammar, syntax, punctuation and organization will be evaluated continually through testing and writing. The students will develop their abilities to think, to organize, and to express their ideas clearly and effectively. There are six required essays. The instructor may require paragraph writing, journals, or "mini-essays."

Advanced Composition (English 102) –ADV ENG CC – 1124AC

(AHD, CORE 40)

Length: **1 Semester**

Grade: **12**

Semester Credit: **1**

Prerequisite: **Students are permitted to enroll in English Composition II after passing English Composition I with a "C" or better,**

Cost: **Approximately $75.00 for books, plus tuition of $75.00 (fees subject to change)**

Advanced Composition (English 102) is a continuation of the work started in English Composition I (English 101) to help the student develop his or her ability to think, to organize, and to express his or her thoughts and ideas effectively. This course applies the skills developed in Composition I to a wider range of expository and argumentative writing, culminating in the preparation of an investigative paper.

Creative Writing 1092

(AHD, Core 40)

Length: **1 Semester**

Grade: **11, 12, (2nd sem of 10)**

Semester Credit: **1**

Using the writing process, students demonstrate a command of vocabulary, the nuances of language and vocabulary, English language conventions, an awareness of the audience, the purposes for writing and the style of their own writing.

Etymology 1060

(AHD, Core 40)

Length: **1 Semester**

Grade: **11, 12, (2nd sem of 10)**

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). This course will also strengthen student's critical reading foundation for college readiness tests (SAT, ACT).

Student Publications: Yearbook – 1086Y **CURRENTLY NOT OFFERED**

Length: **1 Year**

Grade: **10, 11, 12**

Semester Credit: **1**

This course builds basic yearbook production skills. Yearbook staff members will participate in the production of the Lance by writing stories and captions, taking photographs at school events, designing and laying out pages for the yearbook, and choosing and placing photographs. Students will fulfill class requirements by attending school functions, interviewing participants, writing stories, and taking photographs of the activity. Teamwork and production are emphasized in this class and students will be expected to adhere to all deadlines set by the class. This is a lab classroom setting in which self-directed learning is emphasized.

Student Publications: Newspaper – 1086N **CURRENTLY NOT OFFERED**

Length: **1 Year**

Grade: **10, 11, 12**

Semester Credit: **1**

Prerequisite: **Teacher approval**

This course builds journalistic skills needed to produce a school newspaper. Design, computer programs, interviewing, writing and photography are all skills emphasized in this course. Speaking and listening skills will be attained through interviews and reading/sharing critique sessions before each publication deadline. Students are responsible for forming story ideas, developing, and enhancing all written pieces through effective headlines, pictures, captions and design. A monthly publication will be produced as a class, *The Days of the Knights*. As students gain experience they will participate in leadership roles within the production staff. This is a lab classroom setting in which self-directed learning is emphasized.

Library Media - 1082

Length: **1 (or 2) Semester(s)**

Grade: **10,11, 12**

Semester Credit: **1**

Prerequisite: **Teacher approval**

The first semester in the library is primarily concerned with becoming familiar with the general operation of the library/media center. Students will learn how books are placed on the shelves and how to "read" the assigned selves. Next, student librarians will learn how to operate the circulation system, computer network, and setup and operation techniques for all audiovisual equipment. During the second semester, the students will perform all tasks assigned in the library/media center in a self-starting manner and responsibly help all patrons locate materials.

MATH

Algebra 1 - 2520
(AHD, Core 40)
Length: **1 Year**
Grade: **9, 10, 11, 12**
Semester Credit: **1**
Prerequisite: **None**
Algebra I provides a formal development of the algebraic skills and concepts necessary for students to succeed in advanced courses. In particular, the instructional program in this course provides for the use of algebraic skills in a wide range of problem-solving situations. The concept of function is emphasized throughout the course. Topics include: (1) operations with real numbers, (2) linear equations and inequalities, (3) relations and functions, (4) polynomials, (5) algebraic fractions, and (6) nonlinear equations

Geometry - 2532
(AHD, Core 40)
Length: **1 Year**
Grade: **9, 10, 11, 12**
Semester Credit: **1**
Prerequisite: **Has earned at least one credit in Alg. 1**
Geometry students examine the properties of two- and three-dimensional objects. Proof and logic, as well as investigative strategies in drawing conclusions, are stressed. Properties and relationships of geometric objects include the study of: (1) points, lines, angles and planes; (2) polygons, with a special focus on quadrilaterals, triangles, right triangles; (3) circles; and (4) polyhedra and other solids. Use of graphing calculators and computer drawing programs is encouraged.

Honors Geometry – 2532H
(AHD, Core 40)
Length: **1 Year**
Grade: **9**
Semester Credit: **1**
Prerequisite: B- or better in 8th grade Alg. 1 or an A– or better in regular Alg. 1 with 80% or higher on winter NWEA and teacher recommendation.
Honors Geometry students examine the properties of two- and three-dimensional objects. Proof and logic, as well as investigative strategies in drawing conclusions, are stressed. Properties and relationships of geometric objects include the study of: (1) points, lines, angles and planes; (2) polygons, with a special focus on quadrilaterals, triangles, right triangles; (3) circles; and (4) polyhedra and other solids. Use of graphing calculators and computer drawing programs is encouraged.

Algebra 2 - 2522
(AHD, Core 40)
Length: **1 Year**
Grade: **10, 11, 12**
Semester Credit: **1**
Prerequisite: **Has earned two credits in Alg. 1**
(A good math student can take Geometry and Algebra II concurrently)
Algebra II is a course that extends the content of Algebra I and provides further development of the concept of a function. Topics include: (1) relations, functions, equations and inequalities; (2) conic sections; (3) polynomials; (4) algebraic fractions; (5) logarithmic and exponential functions; (6) sequences and series; and (7) counting principles and probability

Honors Algebra 2 – 2522H

(AHD, Core 40)

Length: **1 Year**
Grade: **10**
Semester Credit: **1**
Prerequisite: **B- or better in Honors Geometry or an A– or better in regular Algebra 1 with 80% or higher on winter NWEA and teacher recommendation.**

Honors Algebra II is a course that extends the content of Algebra I and provides further development of the concept of a function. Topics include: (1) relations, functions, equations and inequalities; (2) conic sections; (3) polynomials; (4) algebraic fractions; (5) logarithmic and exponential functions; (6) sequences and series; and (7) counting principles and probability.

Honors Precalculus/Trigonometry - 2564

(AHD, Core 40)

Length: **1 Year**
Grade: **11**
Semester Credit: **1**
Prerequisite: **B- or better in Honors Algebra 2.**

Honors Pre-Calculus blends the concepts and skills that must be mastered before enrollment in a college-level calculus course. The course includes the study of (1) relations and functions, (2) exponential and logarithmic functions, (3) trigonometry in triangles, (4) trigonometric functions, (5) trigonometric identities and equations, (6) polar coordinates and complex numbers, (7) sequences and series and (8) data analysis.

AP Calculus AB - 2562

(Core 40, AHD)

Length: **1 Year**
Grade: **12**
Semester Credit: **1**
Prerequisite: **B– in Honors Pre-Calculus**

Advanced Placement Calculus AB is a course that provides students with the content established by the College Board. AP Calculus is a college level course. Expect to spend several hours outside of class time on assignments each week. Topics include: (1) functions, graphs, and limits, (2) derivatives, and (3) integrals. The use of graphing technology is required.

Finite Math (Dual Credit) - 2530

(Core 40, AHD)

Length: **1 Year**
Grade: **12**
Semester Credit: **1**
Prerequisite: **C- or better in Algebra 2, Accuplacer 74 or higher on Elem Algebra or PSAT 52 or SAT 550 or ACT of 24 on Math.**

Finite Mathematics is an umbrella of mathematical topics. It is a course designed for students who will take higher level mathematics in college that may not include calculus. Topic include: Sets, Matrices, Networks, Optimization, and Probability.

Mathematics Lab - 2560

Length: **1 Semester**
Grade: **10, 11, 12**
Semester Credit: **1**
Prerequisite: **None**

Mathematics Lab provides students with individualized instruction designed to support success in completing mathematics coursework aligned with Indiana's Academic Standards for Mathematics. Students who have not passed the Algebra 1 ECA will be enrolled in Math Lab.

Advanced Math, College Credit – Algebra - 2544

Length: **1 Year**
Grade: **12**
Semester Credit: **1, Dual Credit Ivy Tech**
Prerequisite: **PSAT 52 or SAT scores 550 or above or approved Accuplacer Testing (Ivy Tech). Completed High School Alg. 2 with C or better.**

MUSIC

High School Band - 4160

Length: **1 Year**
Grade: **9, 10, 11, 12**
Semester Credit: **1**
Prerequisite: **Junior High Band or teacher recommendation**
Lab Fee: **$30.00 (fees subject to change)**
Summer Band Camp - **TBA**

High School band is an extension of music history, theory, technique, and style learned in junior high. Music of all styles and ages will be performed. These groups will offspring from the high school band: concert band, marching band, brass choir, jazz ensemble, and the pep band. A high level of proficiency will be developed concerning elements of music such as intonation, balance, and musical expression. The ability to study independently will be encouraged. Students will participate in concerts and contests involving solo and ensemble playing, as well as, organizational and marching contest. Class participation, daily attendance with instrument, and individual performance on the instrument in relation to the group are required. Students will participate in field trips such as parades, festivals, concerts, and graduation. Written work as it applies to concert requirements will be utilized. **Notice:** High School Percussion students are required to register for High School Percussion Ensemble instead of High School Band.

Beginning Chorus - Concert Choir - 4182

Length: **1 Year**
Grade: **9, 10, 11, 12**
Semester Credit: **1**
Prerequisite: **Ability to sing on pitch**
Lab Fee: **$20.00 (fees subject to change)**

A full year course designed to provide an atmosphere for the enjoyment, appreciation and performance of all types of choral music. The instruction and improvement of voice quality, intonation, ability to read music, ability to sight-sing, and the overall development of musicianship is stressed in conjunction with the learning of each piece of music. The Concert Chorus performs at evening concerts as well as community functions as they occur. Performances are a course requirements.

Advanced Chorus - Symphonic Choir - 4188

Length: **1 Year**
Grade: **9, 10, 11, 12**
Semester Credit: **1**
Prerequisite: **Eligible through audition only.**
Lab Fee: **$20.00 (fees subject to change)**

A full year course designed to provide an atmosphere for the enjoyment, appreciation and performance of all types of choral music. The instruction and improvement of voice quality, intonation, ability to read music, ability to sight-sing, and the overall development of musicianship is stressed in conjunction with the learning of each piece of music. The Symphonic Chorus performs at evening concerts, competitions and other special events. Performances are a course requirement.

Women's Chorus - 4182W

Length: **1 Year**
Grade: **9, 10, 11, 12**
Semester Credit: **1**
Prerequisite: **Ability to sing in tune**
Lab Fee: **$20 (fees subject to change)**

This course provides all female students the opportunity of participating in the school's Choral program. Students will focus on the development of vocal skills and learn basic musicianship through ear training and notational skills. Students will be required to apply these skills through the preparation and performance of repertoire for both the school and the community. Performances are a course requirement.

Music History and Appreciation - 4206

Length: **1 Semester**
Grade: **10, 11, 12**
Semester Credit: **1**
Prerequisite: **Previous instrumental music training and an interview with the Music Resource teacher**

Class Size: **Maximum class size 12 students**

Students study Western Music history. This includes the music of major Western stylistic periods and 20th century popular styles such as jazz, blues and popular music. Music of Eastern Cultures will receive a limited amount of attention. Students will use a variety of media and complete projects utilizing a wide range of activities and assignments.

Music Theory and Composition - 4208

Length: **1 Semester**
Grade: **10, 11, 12**
Semester Credit: **1**
Prerequisite: **Previous instrumental music training and an interview with the Music Resource teacher. Completion of Basics and Intermediate Piano is highly recommended.**
Class Size: **Maximum class size 12 students**

Students will do an in-depth study of how music is constructed and the techniques for analysis, composing and arranging music. Focus will be on the elements of traditional Western music with a limited exposure to 20th century compositional techniques. The course will require students to complete a final project to be chosen by the student in collaboration with the instructor.

Damsels – Dance Performance - 4146

Length: **1 Year**
Grade: **9, 10, 11, 12**
Semester Credit: **1**
Prerequisite: **Audition and a minimum GPA of 2.0**

Damsels, color guard, are the visual component of the High School Band. A high level of performance in dance, marching, flag, prop and showmanship will be required. Students will participate in all contests, athletic games, parades and festivals with the band. Damsels are expected to display a high level of school spirit and work together as a team

High School Percussion/Rhythm – 4160P

Length: **1 Year**
Grade: **9, 10, 11, 12**
Semester Credit: **1**
Prerequisite: **Junior High Band teacher recommendation.**
Lab Fee: **$30 (fees subject to change)**

This class is an extension of the High School Band. Students will receive specific instruction in the areas of music reading, scales, rhythm and meter through the media of percussion/rhythm performance. All participants will receive instruction on all primary percussion performance techniques. Students will become proficient in mallet instruments, rhythm instruments and other tuned percussion. Students are considered to be part of the High School Band and will perform with the Marching Band, Concert Band and Spirit Band at all performances. However, high school percussion students are required to register for this class instead of High School Band. Additionally, students will perform in small ensembles.

Piano Keyboard - 4204

Length: **Semester or Year Class**
Grade: **9, 10, 11, 12**
Semester Credit: **1**
Prerequisite: **None**
Lab Fee:

These are an **introductory** and **intermediate** course in the fundamentals of piano keyboard performance. Classroom topics include the study of musical notation and symbols, the performance of simple melodies, standard scales and chord progressions, folk songs, and popular music. These courses are recommended as a prerequisite to Music Theory and Music History.

Project Lead The Way (PLTW)

Introduction to Engineering Design - 4812
(Core 40)

Length: **1 year**
Grade: **9,10, 11, 12**
Semester Credit: **1**
Prerequisite: **Passed Alg. 1 with C or better or currently taking Algebra 1 with math teacher approval.**

Introduction to Engineering Design is a foundation course in Engineering that teaches students problem-solving skills using the design and production process. Hands-on labs and inventor design software are used as learning tools for students to design and produce projects related to industry.

POE– Principles of Engineering - 4814

Length: **1 Year**
Grade: **10, 11, 12**
Semester Credit: **1**
Prerequisites: **IED– Introduction to Engineering or currently taking IED and College Math Prep Classes.**

This course provides an overview of engineering and engineering technology. Students develop problem-solving skills by tackling real-world engineering problems. Through theory and practical hands-on experiences, students address the emerging social and political consequences of technological change. Students will build on the IED class concepts of design process, collecting and analyzing data, communication and documentation of data, and learn several new concepts of engineering.

Principles of the Biomedical Sciences - 5218

(Core 40)
Length: **1 Year**
Grade: **9, 10, 11, 12**
Semester Credit: **1**
Prerequisite: **Current enrollment in Biology 1, B or above in 8th grade English and Science with teacher recommendation.**

Principles of the Biomedical Sciences provide 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. An objective through the course is to determine the factors that led to the death of a fictional person. After determining the factors responsible for the death, the students investigate lifestyle choices and medical treatments that might have prolonged the person's life. Key biological concepts included in the curriculum are: homeostasis, metabolism, inheritance of traits, feedback systems, and defense against disease. Engineering principles such as the design process, feedback loops, fluid dynamics, and the relationship of structure to function will be included where appropriate. The course is designed to provide and overview of all courses in the Biomedical Sciences program and to lay the scientific foundation necessary for student success in the subsequent courses. Core 40 Science elective.

Human Body Systems - 5216

Length: **1 Year**
Grade: **10, 11, 12**
Semester Credit: **1**
Prerequisite: **B or above in Principles of the Biomedical Sciences and Teacher Recommendation**

Human Body Systems is the second course in the PLTW BioMedical program. Students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real world cases and often play the role of biomedical professionals to solve medical mysteries.

Medical Interventions - 5217 (currently not offered)
Length: **1 Year**
Grade: **11, 12**
Semester Credit: **1**
Prerequisite: **Bio Med Principles and Human Body Systems**
Textbook: **TBD**
Student projects investigate various medical interventions that extend and improve quality of life, including gene therapy, pharmacology, surgery, prosthetics, rehabilitation, and supportive care**.**

Biomedical Innovations - 5219 (currently not offered)
Length: **1 Year**
Grade: **12**
Semester Credit: **1**
Prerequisite: **Principles of Biomed, Human Body Systems, Med. Interventions**

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

SCIENCE

ICP - Integrated Chemistry-Physics - 3108
(Core 40, AHD)
Length: **1 Year**
Grade: **9, 10, 11, 12**
Semester Credit: **1**
Prerequisite: **None**
The objective of this course is to expose students to the basic concepts of chemistry and physics. Students are also given the opportunity to apply the concepts in a laboratory setting. For non-college bound students, this would be a good exposure course to some basic ideas in the sciences of chemistry and physics.

Environmental Science - 3010
(AHD, Core 40)
Length: **1 Year**
Grade: **11, 12**
Semester Credit: **1**
Prerequisite: **Biology 1, C Average**
Students will investigate, through laboratory and fieldwork, the concepts of environmental systems, populations, natural resources, and environmental hazards along with the historical perspectives of Environmental Science. Some topics would be: know and describe how ecosystems can be reasonably stable over hundreds of years or thousands of years; understand and explain that ecosystems have cyclic fluctuations; recognize the importance of the Clean Air Act and the Clean Water Act; describe how the chemical elements that make up the molecules of living things pass through food webs and are combined and recombined in different ways.

Biology 1 - 3024
(AHD, Core 40)
Length: **1 Year**
Grade: **9, 10**
Semester Credit: **1**
Prerequisite: **None**
Students are responsible for broken lab equipment.
Biology 1 is a course based on laboratory investigations that include a study of the structures and functions of living organisms and their interactions with the environment. At a minimum, students enrolled in Biology 1 explore the structure and function of cells, cellular processes, and the interdependencies of organisms within populations, communities, ecosystems, and the biosphere. Students work with concepts, principles, and theories of the living environment. In addition, students enrolled in this course are expected to: (1) gain an understanding of the

history and development of biological knowledge, (2) explore the uses of biology in various careers, and (3) investigate biological questions and problems related to personal needs and societal issues.

Honors Biology 1 – 3024H
(AHD, Core 40)
Length: **1 Year**
Grade: **9**
Semester Credit: **1**
Prerequisite: **Honors criteria: B average in previous science classes and/or teacher recommendation**
The focus of this course is to cover the material in Biology 1 in more detail with a faster pace. There will also be heavier emphasis on laboratory investigations. This course is designed for those students who are preparing for higher level science courses and Advanced Placement Biology.

Biology, Advanced Placement - 3020
(AHD, Core 40)
Length: **1 Year**
Grade: **11, 12**
Semester Credit: **1**
Prerequisite: **Biology 1, complete Chemistry with B avg., teacher approval**
Biology, Advanced Placement is a course based on the content established by the College Board. Topics include (1) molecules and cells: chemistry of life, cells, cellular energetic; (2) heredity and evolution: heredity, molecular genetics, evolutionary biology; and (3) organisms and populations: diversity of organisms, structure and function of plants and animals, ecology. The major themes of the course include: science as a process, evolution, energy transfer, continuity and change, relationship of structure to function, regulation, interdependence in nature and science, technology, and society. 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/description/iinde/html

Chemistry 1 - 3064
(AHD, Core 40)
Length: **1 Year**
Grade: **10, 11, 12**
Semester Credit: **1**
Prerequisite: **Completed Biology 1 and Algebra 1 with a C- average.**
Scientific Calculator is required. Students are responsible for broken lab equipment.
Students will learn to identify and use the different types of laboratory equipment. They will learn the science process skills and how to apply these for critical thinking. They will know how to apply math skills in order to solve various problems. They will understand molecules and atoms and how they relate to the composition of solids, liquids, and gases. The students will learn about atomic structure, chemical bonding, and periodic laws. Discussing solutions, acids and bases, salts, PH, and compounds and mixtures will give the students a general understanding about these things affecting them and their surroundings.

Chemistry 2 – 3066
(AHD, Core 40)
Length: **1 Year**
Grade: **11, 12**
Semester Credit: **1**
Prerequisite: **Completed Chemistry 1, Algebra 1, and Algebra 2 with "B" average**
Scientific Calculator is required. Students are responsible for broken lab equipment.
Chemistry II is an extended laboratory, field, and literature investigations-based course. Students will examine the chemical reactions of matter in living and non-living materials.

Anatomy & Physiology - 5276

(AHD, Core 40)

Length: **1 Year**
Grade: **11, 12**
Semester Credit: **1**
Prerequisite: **B avg. in Biology 1 and Chemistry 1 with Teacher Recommendation**

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

Physics – 3084

(AHD, Core 40)

Length: **1 Year**
Grade: **11, 12**
Semester Credit: **1**
Prerequisite: **Completed Chemistry 1, Algebra 1, and Algebra 2 with "C" average or better**
Textbook: **$13.50**

Scientific Calculator is required. Students are responsible for broken lab equipment.

Students will learn the basic skills and techniques of the study of motion, energy, and wave phenomena in sound, light, and electromagnetic energy. Students will also practice problem solving skills relating to the concepts of physics. This is a very math-intensive class.

Advanced Science, Special Topics - 3092

(AHD, Core 40)

Length: **1 Year**
Grade: **11, 12**
Semester Credit: **1**
Prerequisite: **Completed Chemistry 1 with C average or better**

This course will provide students with extended labs, field and advanced research in areas of astronomy and exercise physiology.

SOCIAL STUDIES

World History & Civilization - 1548

(AHD, Core 40)

Length: **1 Year**
Grade: **9, 10, 11, 12**
Semester Credit: **1**
Prerequisite: **None**

A one year class that investigates man's development from his earliest stages to the Industrial Revolution of the early 1800's. The class is lecture based with the incorporation of inquiry techniques. Simulation and independent approaches are also used. If time allows, there will be investigation into 20th century world events.

Honors World History & Civilization - 1548
(AHD, Core 40)
Length: **1 Year**
Grade: **9, 10, 11, 12**
Semester Credit: **1**
Prerequisite: **8th grade US History grade of A/B and Teacher recommendation**

A one year class that investigates man's development from his earliest stages to the Industrial Revolution of the early 1800's. The class is lecture based with the incorporation of inquiry techniques. Simulation and independent approaches are also used. If time allows, there will be investigation into 20th century world events.

U.S. History 11 - 1542
(AHD, Core 40)
Length: **1 Year**
Grade: **11**
Semester Credit: **1**
Prerequisite: **None**

Students will develop knowledge and understanding of U.S. History from CIvil War/Reconstruction to the Present. The student will attain skills in vocabulary, research, and map reading as they pertain to U.S. History and compare history events with present events as well as analyze the events of the past.

Adv. Social Studies, College Credit -U.S. History - 1574
(AHD, Core 40)
Length: **1 Year**
Grade: **11**
Semester Credit: **1, Dual Credit Course (6 college credits through Vincennes U. @ $75/credit hour**
Prerequisite: **PSAT or SAT scores 460 or above or approved Accuplacer Testing (Ivy Tech). Compass scores- Writing- 70, Reading- 80. Students should rank in the upper one-third of the class.**

College US History covers major themes and events in history including exploration of the New World; the colonial period; causes and results of the American Revolution; the development of the federal system of government; the growth of democracy; early popular American culture; territorial expansion; slavery and its effect; reform movements, sectionalism; causes and effects of the Civil War. Also covers major themes including the post Civil War period, western expansion, industrial growth of the nation and its effects, immigration and urban discontent and attempts at reform, World War I, the Roaring Twenties, social and governmental changes of the thirties, World War II and its consequences, the growth of the federal government, social upheaval in the sixties and seventies, and recent trends in conservatism, globalization, and cultural diversity.

Sociology - 1534
Length: **1 Semester**
Grade: **11, 12**
Semester Credit: **1**
Prerequisite: **None**

The focus of this course is on concept, theory, and application of such topics as: society and culture, social organization, social institutions, social change, and social problems. Students will be required to work in groups, role play, and examine information presented as case studies. Goals of the course include a better understanding of group dynamics and personal interaction.

Psychology - 1532
Length: **1 Semester**
Grade: **11, 12**
Semester Credit: **1**
Prerequisite: **Minimum GPA of 2.5**

This course is taught from two distinct approaches; one being the scientific approach, which emphasizes theory, statistics, experimentation, sensation; perception, and physiology. A personal adjustment approach is also used which stresses personality, motivation, emotion, mental illness, and social behavior. The course goal is to enable students to gain a better understanding of themselves, learning to adjust to life, and to gain more knowledge of how to solve life's problems.

Economics - 1514
(AHD, Core 40)
Length: **1 Semester**

Grade: **12**
Semester Credit: **1**
Prerequisite: **None**
This course is divided into two sections: The first section will be a concentrated study of Macroeconomics, which examines the rates of flow within the economy. The second section will emphasize Microeconomics, which looks closely at the market process and how it works.

Government - 1540
(AHD, Core 40)
Length: **1 Semester**
Grade: **12**
Semester Credit: **1**
Prerequisite: **None**
Students will compare and contrast different political theories and institutions of government and how the world is affected by them in contemporary times. The student will study American, federal, state, and local government establishments. The student has responsibilities to his constituency and his value of participation in a democratic society and keep abreast of current events and analyze his/her impact on government policy and action

Current Events
Length: **1 Semester**
Grade: **11 and 12**
Semester Credit: **1**
Prerequisite: **None**
Current Events is a course designed to examine the current issues in different regions of the world. The course is divided into two sections: first learning about different regions of the world and secondly looking at specific problems around the world. Throughout the course there will be many opportunities for debating and discussing the current events/issues facing policy makers and how those decisions will ultimately affect our society and the global society as a whole. Students will exercise their responsibilities as citizens by becoming informed on issues and then applying critical thinking skills and deep analysis to the top news stories around the world. By the end of the course students should have developed well-articulated positions about a variety of issues facing countries and regions around the globe.

Ethnic Studies- 1516
Length: **1 Semester**
Grade: **9, 10, 11, 12**
Semester Credit: **1**
Prerequisite: **None**
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. ·

Indiana Studies- 1518
Length: **1 Semester**
Grade: **9,10, 11, 12**
Semester Credit: **1**
Prerequisite: **None**
Indiana Studies is an integrated course that compares and contrasts state and national developments in the areas of politics, economics, history, and culture. The course uses Indiana history as a basis for understanding current policies, practices, and state legislative procedures. It also includes the study of state and national constitutions from a historical perspective and as a current foundation of government. Examination of individual leaders and their roles in a democratic society will be included and student will examine the participation of citizens in the political process. Selections from Indiana arts and literature may also be analyzed for insights into historical events and cultural expressions. ·

College Psychology 1574P

Length: **1 Year**
Grade: **11 and 12**
Semester Credit: **1**
Prerequisite: **Meet the standards of IVY Tech PSAT 21 R 22 W**

This course is taught from two distinct approaches; one being the scientific approach, which emphasizes theory, statistics, experimentation, sensation; perception, and physiology. A personal adjustment approach is also used which stresses personality, motivation, emotion, mental illness, and social behavior. The course goal is to enable students to gain a better understanding of themselves, learning to adjust to life, and to gain more knowledge of how to solve life's problems.

WORLD LANGUAGE

Spanish 1 - 2120
(AHD)
Length: **1 Year**
Grade: **9, 10, 11, 12**
Semester Credit: **1**
Prerequisite: **Written recommendation from current English teacher.**

Spanish 1 is an introductory course in which oral communication, everyday vocabulary, and relatively simple grammar structures are emphasized. Spanish is spoken in the class by the teacher. Students are expected to speak Spanish as well. It is a start for students interested in foreign language and culture who have a strong English background (C or better).

Spanish 2 - 2122
(AHD)
Length: **1 Year**
Grade: **9,10, 11, 12**
Semester Credit: **1**
Prerequisite: **Spanish 1 with a "C" average**

Spanish 2 is an intermediate course in which written communication, vocabulary, and more advanced grammar structures are emphasized. Students participate in conversation exercises designed to improve their speaking and listening skills. Those exercises include conversation circles, presentations and small group work. Students are expected to speak Spanish. Instruction occurs in Spanish. Writing skills are improved through grammar exercises and compositions. Some instruction will begin to occur in Spanish. It is appropriate for interested students with a strong English background (C or better) who earned a C- or better in Spanish 1.). A dictionary that must be kept throughout a student's Spanish studies must be purchased through the school.

Spanish 3 - 2124
(AHD)
Length: **1 Year**
Grade: **11, 12**
Semester Credit: **1**
Prerequisite: **Spanish 1 and 2 with a "C" average or above in Spanish 2**

Spanish 3 is an intermediate/advanced class in which written and oral communication are jointly emphasized. Vocabulary and advanced grammar structures will continue to be taught while cultural history will be covered through the use of readings and discussions in Spanish. Instruction will be in Spanish. The student is expected to communicate in Spanish. This is an advanced course appropriate for students who wish either to take, or to test out of, Spanish at the college level. It is appropriate for interested students with strong English background (C or better) who earned a C- or better in Spanish 2.

Spanish 4 - 2126
(AHD)
Length: **1 Year**
Grade: **12**
Semester Credit: **1**
Prerequisite: **Spanish 1, 2, and 3 with a C average or above in Spanish 3**

Spanish 4 is an advanced class in which written and oral communication are emphasized while grammar is fine-tuned. Students are exposed to a greater amount of culture and literature (poems, short stories, and excerpts from novels). Instruction will be in Spanish. It is appropriate for interested students with a strong English background (B- or above) who earned a C- in Spanish 3. Students are expected to communicate in Spanish with the goal of developing speed and fluency. English is not used in the class. This is an advanced course appropriate for students who wish either to take, or to test out of, Spanish at the college level.

French 1 - 2020
(AHD)
Length: 1 Year
Grade: 9, 10
ONLINE only

RICHMOND AREA CAREER CENTER VOCATIONAL PROGRAMS

Voc. Automotive Services Tech II - 5546
Length: **1 Year Course**
Grade: **11, 12**
Semester Credit: **3**
Prerequisite: **80% attendance**

Students learn the function, construction and procedures of the different components of the power team. The student will develop elementary skills in clutch, transmission (manual and automatic), propeller shaft and differential servicing and reconditioning. Importance of proper diagnosis and inspection in isolating a particular service problem to its respective unit is emphasized. The course will extend the opportunity to check and review students' knowledge and skill prior to entrance in the trade. Information on tests and testing procedures is supplied for those students who aspire to become certified mechanics in the automotive trade.

Voc. Architectural Drafting & Design - 5640
Length: **1 Year Course**
Grade: **11, 12**
Semester Credit: **3**
Prerequisite: **80% attendance**

The basic introductory course to drafting as it exists in today's industrial world. Students will be expected to demonstrate a proficiency in the fundamentals of lettering, linework, orthographic projection, pictorial illustrations, fasteners, and blue printing skills.

Voc. Precision Machining – Machine Tool Tech- 5782
Length: **1 Year Course**
Grade: **11, 12**
Semester Credit: **3**
Prerequisite: **80% attendance**

This class will cover the basic of applied math, materials and processes, blueprint reading, mechanics and safety in machine tool operations. Emphasis will be placed on mastering these basic skills.

Voc. Construction Technology - 5580

Length: **1 Year Course**
Grade: **11, 12**
Semester Credit: **3**
Prerequisite: **80% attendance**

Students will apply basic operations in their area of interest. Emphasis is placed on construction planning and design and with leadership skills being developed for basic project management. Advanced application of a student skills to be used in advanced job operations. Emphasis is placed on entire project management using the latest in construction computer technology for material lists, CAD generated drawings, purchasing inventory control, cost and analysis and construction material processing.

Voc. Cosmetology - 5802

Length: **2 Year**
Grades: **11, 12**
Semester Credit: **3**
Prerequisite: **80% attendance**
Fees: **$550 - cost of kit and materials**

This is a two-year program at PJs. Students are required to obtain I500 hours of training before completion. The afternoon classes meet from 1:00-5:00 P.M. daily. Students are tested at the completion of the program to obtain certification. Students who do not pass the test are given 100-300 additional instruction hours free. Students must be 16 years old. This two-year course requires summer attendance after the student's junior year. Students must pay kit and book fees of $550 prior to beginning the course.

Voc. Health Science Education – CNA (Cert. Nursing Asst.) 5282

Length: **1 Semester**
Grade: **11, 12**
Semester Credit: **3**
Prerequisite: **Academic Math and Science, 80% attendance**

This one-semester program for juniors and seniors (both boys and girls) is designed to provide for career exploration in selected health care field. Completion of this course and the State Board of Health requirements and exam will enable participants to become certified as a nursing assistant. This program would be valuable to those seeking initial employment: nursing assistants, to those who aspire to become nurses (either LPN or RN) and pre-med students, emergency medical assistants, physical and occupational therapist,
social workers, doctor's office personnel, and others who work in the home health, hospital or nursing home industries. Student is required to have a white uniform and shoes. Hands on clinical experience is provided at a local long-term facility. **(At Ivy Tech)**

Voc. Medical Terminology - 5274 not offered 2017-18

Length: **1 Semester**
Grade: **11, 12**
Semester Credit: **3**
Prerequisite: **Academic Math and Science, 80% attendance**

Students will learn the basic terminology required of the allied health professional and acquire a basic knowledge of anatomy and physiology, pathology special procedures, laboratory procedures and pharmacology. Emphasis is on forming a foundation for a medical vocabulary including meaning, spelling and pronunciation. Medical abbreviations, signs and symbols are included. Students will explore a variety of health occupations and study those that interest them. **(At Ivy Tech)**

Radio & Television II – 5992

Length: **1 Year Course**
Grade: **12**
Semester Credit: **3**
Prerequisite:

This course prepares students for admission to television production programs at institutions of higher learning. Students train on professional equipment creating a variety of video projects.

Fire & Rescue I – 5820

Length: **1 Year Course**

Grade: **11, 12**
Semester Credit: **3**
Prerequisite:
This course may include five Indiana state fire certifications: Mandatory, Firefighter I, Firefighter II, and Hazardous Materials Awareness & Hazardous Materials Operations.

Education Professions I - 5408
Voc. Elementary Cadet Teaching Experience
Length: **1 Year Course**
Grade: **12**
Semester Credit: **2**
Prerequisite: **Counselor/Elementary Principal Approval and 2.8 GPA minimum**
The course is available for Seniors who have an interest in teaching as a career. They will assist the classroom teacher in all phases of teaching activities. This class is a 2 period block that will be held at Northeastern Elementary School. Grade and attendance must meet school standards. Students must provide their own transportation.

Emergency Medical Services (EMT) - 5210
Length: **1 Year Course**
Grade: **12**
Semester Credit: **3**
Prerequisite: **Fire Safety**
Emergency Medical Services 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. Student 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. Class will be held at the Richmond Fire Department or Richmond Fire Department training facility.
Length: **1 Year**
Grade: **9, 10, 11, 12**
Semester Credit: **1**
Prerequisites: **Passed Algebra 1 with a C or better or currently taking Algebra 1 and or Geometry or Instructor Approval.**

IED-Introduction to Engineering Design - 4812
Fee: **$20 (fees subject to change)**
Introduction to Engineering Design is a foundation course in Engineering that teaches students problem-solving skills using the design and production process. Hands-on labs and Inventor design software are used as learning tools for students to design and produce projects related to industry. Students should take this as the first course in the sequence of courses offered in the Project Lead the Way Engineering Curriculum.

POE– Principles of Engineering - 4814
Length: **1 Year**
Grade: **10, 11, 12**
Semester Credit: **1**
Prerequisites: **IED– Introduction to Engineering or currently taking IED and College Math Prep Classes.**
Fee: **$20.00 (fees subject to change)**
This course provides an overview of engineering and engineering technology. Students develop problem-solving skills by tackling real-world engineering problems. Through theory and practical hands-on experiences, students address the emerging social and political consequences of technological change. Students will build on the IED class concepts of design process, collecting and analyzing data, communication and documentation of data, and learn several new concepts of engineering.

CEA- Civil Engineering & Architecture - 4820

Length: 1 Year
Grade: 10, 11, 12
Semester Credit: 1
Prerequisites: IED– Introduction to Engineering, POE-Principles of Engineering
Fee: $20.00 (fees subject to change)

This course 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 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 should include the preparation of cost estimates as well as a review of regulatory procedure that would affect the project design.

BTE – Biotechnical Engineering – 4818

Length: 1 Year
Grade: 10, 11, 12
Semester Credit: 1
Prerequisites: IED– Introduction to Engineering POE – Principles of Engineering
Fee: $20.00 (fees subject to change)

This course introduces students to the fundamental aspects of biotechnology and engineering. Instruction will emphasize how engineering and technology processes can be used to create new innovations that will improve the society. Engineering principles will be used in conjunction with scientific knowledge to explore and investigate the field of biotechnology. Students will learn how new technologies are developed and produced and will have opportunities to discuss the impact of these advances on society. Ethical, social, and regulatory issues of biotechnology application will be addressed throughout the course.

EDD – Engineering Design & Development – 4828

Length: 1 Year
Grade: 12
Semester Credit: 1
Prerequisites: IED– Introduction to Engineering POE- Principles of Engineering & 1 specialty course
Fee: $20.00 (fees subject to change)

This course is an engineering research course in which students work in teams to research, design, test, and construct a solution to an open-ended engineering problem. The product development life cycle and design process are used to guide them team to reach a solution to the problem. The team presents and defends their solution to a panel of outside reviewers at the conclusion of the course. The EDD course allows students to apply all the skills and knowledge learned in previous pre-engineering courses. The use of 3D design software helps students design solutions to the problem their team has chosen. This course also engages students in critical thinking and problem-solving skills, time management, and teamwork skills.

OTHER CLASS OPTIONS

College Entrance Preparation - 0532

Length: 1 Semester
Grade: Fall (11, 12), Spring (10, 11)
Semester Credit: 1
Prerequisite: Algebra II (or concurrent enrollment in Algebra II)

College-Entrance Preparation utilizes individual student score reports from the PSAT, PLAN, and/or ACCUPLACER to prepare students for the SAT, ACT, ACCUPLACER and/or Compass college readiness assessments. Based on student score reports, students will receive targeted instruction to strengthen their foundations in critical reading, writing, mathematics, and science 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 better prepare students for overall college-readiness. Being “college ready” means being prepared for any postsecondary education or training experience, including readiness for study at two-year and four-year institutions leading to a postsecondary credential (i.e., a certificate, license, Associate’s or Bachelor’s degree). Being ready for college means that a high school graduate has the English and mathematics knowledge and skills necessary to qualify for and succeed in entry-level, credit-bearing college courses without the need for remedial coursework.

High School Cadet Teaching Experience- 0502

Length: **1 Semester**
Grade: **11, 12**
Semester Credit: **0**
Prerequisite: **2.0 GPA**

Any junior or senior wishing to cadet for a teacher or in the office must have the teacher's or office approval. A permission slip from the teacher or office personnel is required. The cadet will assist the teacher as the teacher requests. Errands could include making copies, handing out or collecting papers, sharpening pencils or other classroom tasks. Office cadets will be required to deliver notes to students, fill the copier, make copies, refill the ice, address envelopes, alphabetize papers and other duties. Attendance to the teacher's class or office is mandatory.

Students wishing to enroll in an IU East course must do so the semester before the class starts. See Mrs. Nocton for details.

Study Skills -

Length: **1 Semester**
Grade: **9, 10, 11, 12**
Semester Credit: **1**

Placement by School Counselor, Mrs. Sittloh or Mrs. Tice only.