

Curriculum Guide

2021-2022

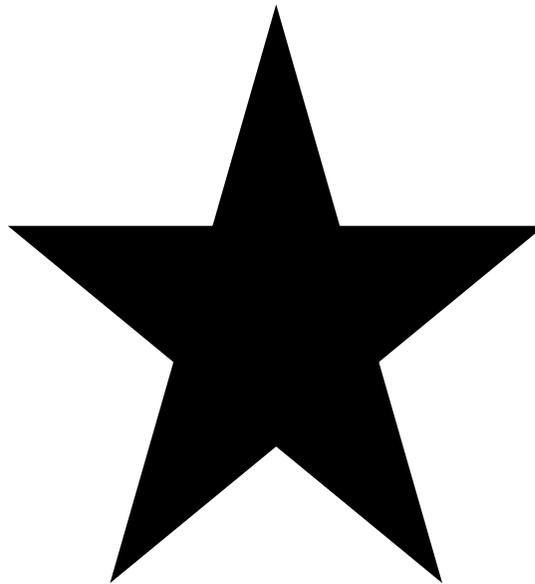


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Class Load

1. Students enrolled in grades 9-12 are required to take at least six credits per semester.
2. Transfer students will be placed on an individual basis as determined by their prior classes and completed credits.
3. Student enrollment and availability of teaching staff will determine whether a course will be taught.

Incomplete Grades

Students with multiple absences at the end of any grading period must complete the work within two weeks after the end of the grading period. Missing work including final exams are recorded as a zero until the work is complete.

1. Students receiving an “F” for a nine weeks grading period subject themselves to failing that subject for the semester.
2. Students failing to take a final exam subject themselves to failing that subject for the semester.
3. A student who fails to complete all course requirements will not receive a passing grade in that subject.

Withdrawals

If a student is withdrawn from a class by the administration for disciplinary or other reasons, a grade of W will be entered and is not included in GPA. If a student drops the class (with administration approval), a grade of WF is entered on the transcript if the student is failing the class at the time of withdrawal. In either circumstance, no credit is given and the “F” is included in the GPA. Students may also receive a WF for disciplinary actions, regardless of current grade in the class.

Special Education

The Special Education department is comprised of staff responsible for the self-contained lifeskills classes for students with a moderate or severe cognitive disability and staff who work with junior high and high school students who have mild cognitive disabilities and specific learning disabilities by providing support in inclusion classes. Co-teaching classes in English and math are also offered. Placement is determined through the individualized educational plan at annual conferences. The special education department is part of the Boone-Clinton-Northwest Hendricks Joint Services Cooperative. Support services from a speech pathologist and physical and occupational therapists are made available as indicated in the individual educational plan.

Student Assistants (High school students only)

Student Assistants must pass all subjects to remain a student assistant. If an assistant receives an “F” in any subject for any nine weeks grading period, he/she will be reassigned to study hall until the “F” has been raised. This would normally be at the end of the next grading period.

Schedule Changes

Students have adequate time to plan their yearly schedules and have two weeks to request changes in the spring. PLAN CAREFULLY! After the spring schedule change window, change requests will only be considered for the following reasons:

1. To meet immediate graduation requirements
2. Schedule conflicts

3. Extenuating circumstances approved by the student's counselor, administration, and parent/guardian.

Online courses

Students wishing to enroll in an online course not offered by Western Boone or to make room in their schedule for other classes must get permission from the counseling office prior to enrolling in the class to ensure Western Boone credit will be granted. All courses taken outside Western Boone must be from an approved provider. Students will be held responsible for completing coursework independently and meeting deadlines of the course provider. Failure to complete the course in the allotted time frame will result in an F for the credit.

Final Exams

Final exams will account for 20% of the final semester grade. Teachers in subjects which do not have final exams will average the two nine weeks' grades to arrive at a final semester grade.

CTE Programs

Attending any CTE program is considered a privilege granted by the school board when the student is unable to receive the instruction within Western Boone. Policies and specific information on the CTE programs may be found under CTE in the course description section. Students and parents are required to sign a contract outlining CTE commitment. CTE grades are calculated using the grading scale of the program's host school. When available, students are required to utilize school transportation.

TESTING PROGRAM

Scholastic Aptitude Test Grade 11

Beginning with class of 2023: All students will take the SAT in grade 11 starting in the 2021-22 school year.

Knowledge Assessment

Knowledge Assessment is administered to determine dual credit eligibility in some courses.

Preliminary Scholastic Aptitude Test (PSAT)

The PSAT is given to all sophomores and juniors at Western Boone in October. The score from the junior year is the qualifying score for the National Merit Scholarship Competition.

Armed Services Vocational Aptitude Battery (ASVAB)

The ASVAB is given annually to all juniors and interested seniors. While ASVAB scores can be used to determine military entrance/placement, Western Boone utilizes this assessment for career exploration purposes and does not release student scores or information to the military unless requested by the student and parent. A minimum ASVAB score will also fulfill a graduation requirement for student in the class of 2023 and beyond.

Scholastic Aptitude Test (SAT)/ACT

Students who are considering attending college are advised to take the SAT or ACT during the spring of their junior year and the fall of the senior year. The SAT or ACT is required for admission to most colleges. Students who are enrolled in the free/reduced lunch program can receive a fee waiver to take each exam twice. Students who receive accommodations on tests in school should see their counselor

before registering to determine whether they are eligible to take the SAT/ACT with accommodations. A minimum SAT or ACT score will also fulfill a graduation requirement for the class of 2023 and beyond.

Athletics

The Indiana High School Athletic Association (IHSAA) requires all students participating in extra-curricular athletics be passing five or more credits.

Retaking a Class

Students who receive a grade of C+ or lower may retake a class as desired. The grade earned in the retake class will become the grade of record. Although the original class/grade will still appear on the transcript, it will not be calculated in the GPA.

Transfer Grades

When a student transfers to Western Boone from another school, percentages from schools using a different grading scale will not be converted. Letter grades from the original school will be recorded on the transcript as reported.

Graduation

Seniors must complete all requirements prior to the graduation ceremony in order to participate in graduation ceremonies.

High School Credit in Junior High

Selected high school courses are available to junior high students. High school credits earned during eighth grade will become part of the student's high school transcript and GPA and will be counted toward his/her graduation requirements. Note: students taking Algebra in the 8th grade will receive high school credit toward the Algebra requirement. However, completing Algebra credits in 8th grade will not exempt a student from taking a math/quantitative reasoning course all four years in high school.

College Admission

Admission requirements vary from college to college. Students are encouraged to explore the admission requirements of universities they are considering, as many have course requirements beyond the Core 40 requirements. Some examples include: minimum 2 years of foreign language (Butler, IU, Purdue and several others), and 4 years of math (IU (must be PreCalc/Trig), Purdue and others). While upperclassmen have more flexibility in their schedules than freshman and sophomores, juniors and seniors should plan to take a full schedule including at least 4-5 academic classes. Colleges are looking for students who challenge themselves and for students who maintain strong or ascending grade trends in the junior and senior years.

Early Graduation Policy

Pursuant to Indiana Code 21-12-10 Mitch Daniels Early Graduation Scholarship, Western Boone Community Schools adopts the following early graduation policy for students wishing to graduate in six semesters or less:

Requirements:

- Student must apply for early graduation by Feb. 1 of the sophomore year to be ranked with the senior class in the following year for purposes of scholarships and class rank.
- Students who graduate early cannot be considered for valedictorian or salutatorian honors.

- Conference must be held with student, parent/guardian, counselor, and administrator by March 1 of sophomore year.
- Students wishing to graduate after six semesters who have not met the requirements listed above are eligible to graduate upon completion of all graduation requirements, but will not be ranked with the new class.

Other considerations:

- Online coursework may be necessary to complete all required coursework.
- Credits can be earned through any accredited online source with permission of the school counselor (cost for online courses to be paid by the student).
- Any student who has completed the application/conference process by the specified deadlines will be ranked with the new graduating class upon completion of the semester in which application is made.
- Students graduating early are eligible to participate in all senior class activities while still enrolled at Western Boone with the class of their newly intended graduation year.

Weighted Grades Policy

Students have the opportunity to receive weighted grades (5.0 scale) for Academic Honors Diploma-eligible dual credit classes listed on the Core Transfer Library (www.transferin.net/CTL) in the academic core subject areas of Language Arts, Math, Science, Social Studies, and World Language and all AP courses. All other classes remain on a 4.0 scale.

Courses that currently meet the weighted grade criteria:

AP 2-D Art & Design	AP Microeconomics
AP 3-D Art & Design	AP Physics 1
AP Art History	AP US History
AP Biology	AP World History: Modern
AP Chemistry	Calculus
AP Drawing	PreCalc/Trig and PreCalc/Trig Honors
AP English Language & Composition	Spanish 3 Honors
AP English Literature & Composition	Spanish 4

AP/ Dual Credit Course Policy

While participation is not a guarantee of college credit, it is expected that any student enrolling in any AP or dual credit courses will take full advantage of course participation by completing all required elements to grant the student college credit. This includes taking the AP exam (fee of approximately \$99 per exam) and enrolling for all applicable dual credits (fee of up to \$25/college credit). Fees are waived or reduced for students enrolled in free/reduced lunch program. See your counselor for specific cost information. Note: College course codes are indicated following each course description. Those with * require students to meet minimum entrance test requirements to be eligible for the college credit (testing requirements subject to change).

Rank/GPA/Grading Scale

The freshman, sophomore, junior, and senior classes are scholastically ranked at the end of each semester based on grade point average (GPA). Only semester grades are used in determining the GPA.

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Grading Scale		GPA Points Earned (Unweighted)	GPA Points Earned (Weighted)
A+	100	A = 4.0	A = 5.0
A	92-99	A- = 3.67	A- = 4.67
A-	90-91	B+ = 3.33	B+ = 4.33
B+	88-89	B = 3.0	B = 4.0
B	82-87	B- = 2.67	B- = 3.67
B-	80-81	C+ = 2.33	C+ = 3.33
C+	78-79	C = 2.0	C = 3.0
C	72-77	C- = 1.67	C- = 2.67
C-	70-71	D+ = 1.33	D+ = 2.33
D+	68-69	D = 1.0	D = 2.0
D	62-67	D- = 0.67	D- = 1.67
D-	60-61	F = 0	F = 0
F	Below 60		

Final grades are calculated by multiplying each nine weeks percentage by 2, adding those totals to the final exam percentage, and dividing the total by 5. Then use the chart above to assign the final semester grade. Note: A+ can only be earned as a 9 weeks grade.

Career Pathways

Students working toward a Core 40 diploma with Technical Honors are required to complete a College and Career Pathway incorporating a specific series of courses as determined by the State of Indiana. Western Boone offers College and Career Pathway coursework onsite or through our CTE programs.

Beyond coursework, completion of 6 dual credits in the pathway or industry-based certifications are required for the Technical Honors diploma. Please refer to the Graduation requirements chart or the Career Pathways website <http://www.doe.in.gov/cte/indiana-college-career-pathways> for more information.

Junior High Course Selections

Grade 7

Students entering Grade 7 are required to take the following full year courses:

- *English (regular or Honors)
- *Math (regular or Honors)
- Social Studies
- Science
- Physical Education

*Western Boone offers Honors English and Math, designed for motivated students with above average skills. Placement in honors courses requires an application which will be evaluated for current grades, test scores, and recommendations from sixth grade teachers.

- In addition to the core subject requirements, students entering seventh grade may choose from the following options:
 - Band (full year)
 - Choir (full year)
 - Art 1 (one semester)
 - Art 2 (one semester)
 - Exploring College and Careers (one semester)
 - Family and Consumer Science 7 (one semester)
 - Current Events (one semester)
 - Engineering and Technology (one semester)
 - Exploring Agriculture (one semester)
 - Business and Information Technology

Grade 8

Students entering Grade 8 are required to take the following full year courses:

- *English (regular or Honors)
- Math 8 OR *Honors Algebra 1
(ALGEBRA 1 EARNS ONE HIGH SCHOOL CREDIT FOR EACH SEMESTER PASSED)
- Social Studies
- Science
- Physical Education

*Placement in Western Boone Honors English requires an application to the English department. Placement in Honors Algebra 1 also requires an application and is based on math grades, test scores, and teacher recommendation. These courses are designed for motivated students with above average skills.

- In addition to the core subject requirements, students entering eighth grade may choose from the following options:
 - Band (full year)
 - Choir (full year)
 - Art 1 (one semester)
 - Art 2 (one semester)
 - Art 3 (one semester)
 - Current Events (one semester)
 - Engineering and Technology (one semester)
 - Exploring College and Careers (one semester if not taken in Grade 7)
 - Family and Consumer Science 8 (one semester)
 - Business and Information Technology
- The following courses offer one high school credit for each semester passed:
 - Introduction to Agriculture (full year)
 - Digital Applications & Responsibility (semester)
 - Applied Music (summer only)
 - Applied Music: Guitar (one semester or year)
 - Spanish

2021-2022 COURSES BY DEPARTMENT

Courses are listed by department and include whether the course is a semester or full year, grades offered, whether there are pre-requisites for the course, and whether dual credit may be available. Q indicates courses designated as Quantitative Reasoning. Please see detailed course descriptions for detailed information.

Title **Grades** **Sem/Yr** **Pre-Req** **Dual Cred.** **QR**

AG See Page 12

Title	Grades	Sem/Yr	Pre-Req	Dual Cred.	QR
Agribusiness Mgmt.	11-12	Year	Yes	Yes	Q
Ag Power, Structure	9-12	Year	No	Yes	
Horticulture Science	9-12	Year	Yes	Yes	
Intro to Ag	8-12	Year	No	No	
Principles of Ag	9-12	Year	No	No	

ART See Page 14

Title	Grades	Sem/Yr	Pre-Req	Dual Cred.	QR
AP Art History	11-12	Year	Yes	No	
AP 2-D Art & Design	11-12	Year	Yes	No	
AP 3-D Art & Design	11-12	Year	Yes	No	
AP Drawing	11-12	Year	Yes	No	
Ceramics I-VIII	9-12	Year	No	No	
Drawing I-VIII	9-12	Year	No	No	
Fine Arts Connection	11-12	Sem/Yr	Yes	No	
Photography I-VIII	9-12	Fall/Yr	No	No	

BUSINESS & TECHNOLOGY See Page 16

Title	Grades	Sem/Yr	Pre-Req	Dual Cred.	QR
Intro to Accounting	10-12	Year	No	No	
Adv Accounting	11-12	Year	Yes	No	Q
Business Law/Ethics	11-12	Sem	No	No	
Digital Apps & Resp	8-12	Sem	No	No	
Intro to Business	9-12	Sem/Yr	No	No	
Intro to Comp Sci	9-12	Fall/Yr	No	No	
Personal Fin. Resp.	10-12	Sem	No	No	Q

FAMILY & CONSUMER SCIENCES See Page 17

Title	Grades	Sem/Yr	Pre-Req	Dual Cred.	QR
Adult Roles & Respons.	9-12	Sem	No	No	
Adv Child Dev	9-12	Sem	Yes	No	
Adv Nutrition	9-12	Sem	Yes	No	
Biochemistry of Foods	10-12	Year	No	No	Q
*Child Development	9-12	Sem	No	No	
*Interpers Relation	9-12	Sem	No	No	
*Nutrition & Wellness	9-12	Sem	No	No	
*Prep for Coll/Career	9-12	Sem	No	No	

*Completion of 3 fulfills health requirement

HEALTH & PHYSICAL EDUCATION See Page 20

Title	Grades	Sem/Yr	Pre-Req	Dual Cred.	QR
Adv Weight Training	11-12	Sem/Yr	Yes	No	
Beg Weight Training	10-12	Sem/Yr	Yes	No	
Health & Wellness	9-12	Sem	No	No	
Lifeguarding	9-12	Sem/Yr	Yes	No	
Lifetime Fitness	10-12	Sem/Yr	No	No	
Physical Education	9-12	Year	No	No	
Physical Education, Adv	9-12	Year	Yes	No	

Title **Grades** **Sem/Yr** **Pre-Req** **Dual Cred** **QR**

LANGUAGE ARTS See Page 21

Title	Grades	Sem/Yr	Pre-Req	Dual Cred	QR
AP Eng Lang	11-12	Year	Yes	No	
AP Eng Lit	12	Year	Yes	No	
English 9	9	Year	No	No	
English 9 Honors	9	Year	Yes	No	
English 10	10	Year	No	No	
English 10 Honors	10	Year	Yes	No	
American Lit	11	Year	No	No	
Dramatic Lit	12	Sem	No	No	
English Lit	12	Sem	No	No	
Film Lit	12	Sem	No	No	
Student Media	9-12	Year	Yes	No	
Speech	12	Sem	No	No	

MATH See Page 24

Title	Grades	Sem/Yr	Pre-Req	Dual Cred	QR
Algebra I	9-12	Year	No	No	
Algebra I Honors	8-12	Year	Yes	No	
Alg II (Reg/Honors)	10-12	Year	Yes	No	
Calculus	12	Year	Yes	Yes	
Geom (Reg/Honors)	9-12	Year	Yes	No	
PreCalc (Reg/Honors)	11-12	Fall	Yes	Yes	
Math 10	9-10	Year	Yes	No	
Quant. Reasoning	11-12	Year	Yes	Yes	
Trigonometry (Reg/Honors)	11-12	Spring	Yes	Yes	

MULTIDISCIPLINARY ELECTIVES See Page 27

Title	Grades	Sem/Yr	Pre-Req	Dual Cred	QR
Cadet Teaching	11-12	Sem/Yr	Yes	No	
Career Info & Explor.	11-12	Sem/Yr	Yes	Yes	
Comp Tech Support	11-12	Year	Yes	No	
Community Service	11-12	Sem/Yr	Yes	No	
Educ. Professions	11-12	Year	Yes	No	
Information Technology Support	10-12	Year	Yes	No	
Interdisc. Co-op Ed.	11-12	Year	Yes	No	
Networking I	11-12	Year	Yes	No	
Networking II – Infrastructure	12	Year	Yes	No	
Peer Tutoring	10-12	Sem/Yr	Yes	No	

MUSIC See Page 29

Applied Music: Guitar	8-12	Sem/Year	No	No	
Applied Music: Marching Band	8-12	Summer	No	No	
Concert Band	9-12	Year	No	No	
Music Hist & Apprec	9-12	Year	No	No	
Music Theory	10-12	Year	Yes	No	
Choir (placement by audition)	9-12	Year	No	No	

PROJECT LEAD THE WAY See Page 31

Digital Electronics	10-12	Year	Yes	Yes	Q
Intro to Eng Design	9-12	Year	No	Yes	
Princ of Engineering	10-12	Year	Yes	Yes	Q

RADIO/TV See Page 32

Principles of Radio TV	9-12	Year	No	Yes	
Audio & Video Production Mass Media Performance	11-12	Year	No	Yes	
Radio TV II	12	Year	No	Yes	

SCIENCE See Page 32

AP Biology	11-12	Year	Yes	No	Q
AP Chemistry	11-12	Year	Yes	No	Q
AP Physics 1 (online)	11-12	Year	Yes	No	Q
Anatomy & Phys	11-12	Year	Yes	Yes	
Biology	9-12	Year	No	No	
Chemistry I	10-12	Year	Yes	No	Q
Earth & Space Science	9-12	Year	No	No	
Integ Chem-Physics	9-12	Year	No	No	Q
Physics	11-12	Year	Yes	No	Q

SOCIAL STUDIES See Page 34

AP Microeconomics	12	Year	Yes	No	Q
AP US History	11-12	Year	Yes	No	
AP World History: Modern	10-12	Year	Yes	No	
Economics	11-12	Sem	No	No	Q
Ethnic Studies	9-12	Sem	No	No	
Geog/Hist of World	9-12	Year	No	No	
Indiana Studies	9-12	Sem	No	No	
Psychology	12	Sem/Yr	No	No	
US Government	11-12	Sem	No	No	
US History	10-12	Year	No	No	
World History	9-12	Year	No	No	

SPANISH See Page 37

Spanish I	9-12	Year	No	No	
Spanish II	10-12	Year	Yes	No	
Spanish III	11-12	Year	Yes	No	
Spanish III Honors	11-12	Year	Yes	Yes	
Spanish IV	12	Year	Yes	Yes	

TECHNOLOGY EDUCATION See Page 39

Introduction to Manufacturing	11-12	Year	Yes	Yes	
Intro to Construction	10-12	Sem/Yr	No	No	

CTE PROGRAMS See page 40

CTE courses are full-year courses offered to students in grades 11-12.

Students should plan one additional class period for travel.

COURSES OFFERED AT J. EVERETT LIGHT

Title # of credits Dual Credit

Adv. Manufacturing I & II	3	Yes
Auto Collision	3	Yes
Auto Maint/Detail	2-3	No
Auto Service Tech	3	Yes
Criminal Justice I & II	3	Yes
Culinary Arts & Hosp. I & II	3	Yes
Dental Careers I & II	3	Yes
Early Childhood Ed I & II	3	Yes
Emergency Med Services	3	Yes
Graphic Design & Layout	2-3	Yes
Health Science Education I	3	Yes
Health Science Ed II: Med. Asst.	2-3	Yes
Health Science Ed II: Nursing	3	Yes
IT Cybersecurity, Networking, & Coding	3	Yes
R/TV: Animation/Film	2	Yes
R/TV: Music/Sound	2	Yes
Veterinary Careers I & II	3	Yes
Welding Technology I & II	2-3	Yes

COURSES OFFERED THROUGH WEST CENTRAL CAREER

Title # of credits Dual Credit QR

Principles of Automotive Services Automotive Brakes & Electrical Engine Performance	3	Yes	
Automotive Technology Services II	3	Yes	
Business Admin Tech Cert	3	Yes	
Construction Tech: HVAC	3	Yes	Q in yr 2
Cosmetology I & II	3	Yes	
Principles of Criminal Justice Law Enforcement & Cultural Awareness Courts & Corrections	3	Yes	
Criminal Justice II	3	Yes	
Early Childhood Educ.	3	Yes	
EMS	3	Yes	

Fire & Rescue	3	Yes	
Principles of Health Care Medical Terminology Healthcare Specialist: CNA	3	Yes	
Health Sci Ed II: Nursing	3	Yes	
Health Sci Ed II: Pharmacy Tech	1	No	
Precision Machining I & II	3	Yes	Q in both
Principles of Welding Technology Shielded Metal Arc Welding Gas Welding Processes	3	Yes	
Welding Technology II	3	Yes	
Principles of Computers and Informatics Cybersecurity Fundamentals Advanced Cybersecurity	3	Yes	

AGRICULTURE

Courses in the Ag department are offered on a rotating basis to provide students with as many options as possible. Note in the course title line those courses which will not be available in 2021-2022.

5056 INTRODUCTION TO AGRICULTURE, FOOD AND NATURAL RESOURCES (year)

Grades 8-12

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 related to human development and wellness.

5002 AGRIBUSINESS MANAGEMENT (year)

Grades 11-12, Grade 10 by permission

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 agriculture experience programs.

Prerequisite: Introduction to Ag

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (AGRI102 = 3 credits)

5088 AGRICULTURE POWER, STRUCTURE AND TECHNOLOGY (year)

Grades 9-12

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.

Prerequisite: Principles of Agriculture

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (AGRI106 = 3 credits)

5132 HORTICULTURE SCIENCE (year)

Grades 9-12

Horticulture Science is a two semester course that provides students with a background in the field of horticulture. Coursework includes hands-on activities that encourage students to investigate areas of horticulture as it relates to the biology and technology involved in the production, processing, and marketing of horticulture science: reproduction and propagation of plants, plant growth, growth-media, management practices for field and greenhouse management, floral design, and pest management. Students participate in a variety of activities including extensive laboratory work usually in a school greenhouse.

Prerequisite: Introduction to Ag

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (AGRI116 = 3 credits)

7117 PRINCIPLES OF AGRICULTURE (year)

Grades 9-11

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

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (AGRI 100 = 3 credits)

7112 AGRICULTURE STRUCTURES FABRICATION AND DESIGN (year) 2022-23 school year

Grades 10-12

Agricultural Structures Fabrication and Design is a two-semester course that focuses on metal work and agricultural structures. This course will allow students to develop skills in welding and metalworking such as metal identification and properties, metal preparation, use of oxyacetylene torch, plasma cutting and cutting operations, arc welding, MIG welding, TIG welding. This course will also allow students to develop skills in construction in regard to the ag industry such as carpentry, masonry, etc.

Prerequisite: Principles of Agriculture

DUAL CREDIT AVAILABLE PENDING APPROVAL

5102 FOOD SCIENCE (year) 2022-23 school year

Grades 10-12

Food Science is a two-semester course that provides students with an overview of food science and the role it plays in the securing of a safe, nutritious, and adequate food supply. A project-based approach is utilized in this course, along with laboratory, team building, and problem-solving activities to enhance student learning. Students are introduced to the following areas of horticulture science: food processing, food chemistry and physics, nutrition, food microbiology, preservation, packaging and labeling, food commodities, food regulations, issues and careers in the food science industry.

Prerequisite: Principles of Agriculture

DUAL CREDIT AVAILABLE PENDING APPROVAL

7116 PRECISION AGRICULTURE (year) 2022-23 school year

Grades 10-12

Precision Agriculture describes the purpose and concepts of precision agriculture and precision farming through classroom and lab-based instruction. It involves understanding and operation of the various precision agriculture tools including GPS, GIS, and VRT. Students will learn how to collect data, analyze data and use the information to make decisions. Provides an understanding and justifications that demonstrate the economic and environmental benefits of precision agriculture. The Precision Agriculture course also incorporates the use of UAVs. Students will demonstrate UAV competency and handling in order to achieve the Part 107 UAS certification.

Prerequisite: Principles of Agriculture

DUAL CREDIT AVAILABLE PENDING APPROVAL

5008 ANIMAL SCIENCE (year) 2023-24 school year

Grades 10-12

Animal Science is a two-semester program that provides students with an overview of the animal agriculture industry. 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 may be applied to both large and small animals. Topics to be covered in the course include: history and trends in

animal agriculture, laws and practices relating to animal agriculture, comparative anatomy and physiology of animals, biosecurity threats and interventions relating to animal and human safety, nutrition, reproduction, careers, leadership, and supervised agricultural experiences relating to animal agriculture.

Prerequisite: Principles of Agriculture

DUAL CREDIT AVAILABLE PENDING APPROVAL

7113 CROP MANAGEMENT (year) *2023-24 school year*

Grades: 10-12

Crop Management will provide an understanding of plant nutrient requirements and how to provide for those needs to achieve efficient crop production through classroom and lab-based instruction. Students will understand proper fertilizer materials, application methods and techniques. Instruction on soil analysis by demonstrating proper soil testing techniques which will be used to create fertility plans for proposed crops. Integrated pest management and the evaluation of various pest controls with minimal impact on the environment will also be an emphasis of the course.

Prerequisite: Principles of Agriculture

DUAL CREDIT AVAILABLE PENDING APPROVAL

ART

4025 ART HISTORY, ADVANCED PLACEMENT (year)

Grades 11-12

Art History, Advanced Placement is a course based on the content established by the College Board. Art History is designed to provide the same benefits to secondary school students as those provided by an introductory college course in art history: an understanding and knowledge of architecture, sculpture, painting, and other art forms within diverse historical and cultural contexts. Students examine major forms of artistic expression from the past and the present from a variety of cultures. They learn to look at works of art critically, with intelligence and sensitivity, and to analyze what they see. This course incorporates research, extensive reading, and analytical writing.

Prerequisite: Permission of Instructor

4040 CERAMICS I/II (Fall semester or year), **III/IV** (year), **V/VI** (year), & **VII/VIII** (year)

Grades 9-12

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

Prerequisite: Students must earn C- or higher to proceed to next level (or by admin. approval)

4060 DRAWING I/II (Fall semester or year), **III/IV** (year), **V/VI** (year), & **VII/VIII** (year)

Grades 9-12

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

sketching, rendering, contour, gesture, and perspective drawing and use a variety of media such as pencil, chalk, pastels, charcoal, and pen and ink. They reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

Prerequisite: Students must earn C- or higher to proceed to next level (or by admin. approval)

4026 FINE ARTS CONNECTIONS (semester or year)

Grades 11-12

Fine Arts Connections is a course based on the Indiana Academic Standards for Visual Art, Music, Theatre, and Dance. In this course, students make connections among experiences in the four arts disciplines and integrate them in studies of all academic disciplines. They create works encompassing multiple disciplines, literacies, and sign systems, reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize, and make informed judgments about works and the nature of the arts. They incorporate presentational skills and utilize the resources of the arts community, identifying related careers.

Prerequisite: Permission of Instructor

4062 PHOTOGRAPHY I/II (Fall semester or year), **III/IV** (year), **V/VI** (year), & **VII/VIII** (year)

Grades 9-12

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

Prerequisite: Students must earn C- or higher to proceed to next level (or by admin. approval)

Student must provide his/her own digital camera

4048 DRAWING, ADVANCED PLACEMENT (year)

Grades 11-12

Drawing, Advanced Placement is designed to address a very broad interpretation of drawing issues and media. Light and shade, line quality, rendering of form, composition, surface manipulation, and illusion of depth are drawing issues that can be addressed through a variety of means, which could include painting, printmaking, mixed media, etc. Abstract, observational, and inventive works may demonstrate drawing competence. Any work that makes use of (appropriate) other artists' works (including photographs) and/or published images must show substantial and significant development beyond duplication. This is demonstrated through manipulation of the formal qualities, design, and/or concept of the source.

Prerequisite: Permission of Instructor

4050 2-D ART & DESIGN, ADVANCED PLACEMENT (year)

Grades 11-12

This portfolio is intended to address two-dimensional (2-D) design issues. Design involves purposeful decision making about how to use the elements and principles of art in an integrative way. The

principles of design articulated through the visual *elements* help guide artists in making decisions about how to organize the elements on a picture plane in order to communicate content. For this portfolio, students are asked to demonstrate proficiency in 2-D design through any two-dimensional medium or process, including, but not limited to, graphic design, digital imaging, photography, collage, fabric design, weaving, illustration, painting, and printmaking. Any work that makes use of (appropriates) other artists' works (including photographs) and/or published images must show substantial and significant development beyond duplication.

Prerequisite: Permission of Instructor

4052 3-D ART & DESIGN, ADVANCED PLACEMENT (year)

Grades 11-12

This portfolio is intended to address sculptural issues as related to depth and space. Design involves purposeful decision making about how to use the elements and principles of art in an integrative way. For this portfolio, students are asked to demonstrate proficiency of 3-D design through any three-dimensional approach, including, but not limited to, figurative or nonfigurative sculpture, architectural models, metal work, ceramics, and three-dimensional fiber arts. Any work that makes use of (appropriates) other artists' works (including photographs) and/or published images must show substantial and significant development beyond duplication.

Prerequisite: Permission of Instructor

BUSINESS & TECHNOLOGY

4524 INTRO TO ACCOUNTING (year)

Grades 10-12

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

4522 ADVANCED ACCOUNTING (year)

Grades 11-12

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

Prerequisite: Intro to Accounting

4560 BUSINESS LAW AND ETHICS (semester)

Grades 11-12

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.

4528 DIGITAL APPLICATIONS AND RESPONSIBILITY (semester)

Grades 8-12

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.

Note: This course is a prerequisite to several upper level computer courses.

4518 INTRODUCTION TO BUSINESS (Fall or year)

Grades 9-12

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.

4803 INTRODUCTION TO COMPUTER SCIENCE (Fall or year)

Grades 9-12

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

4540 PERSONAL FINANCIAL RESPONSIBILITY (semester)

Grades 10-12

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.

FAMILY & CONSUMER SCIENCES

5330 ADULT ROLES AND RESPONSIBILITIES (semester)

Grades 9-12

Adult Roles and Responsibilities is recommended for all students as life foundations and academic enrichment, and as a career sequence course for students with interest in family and community services, personal and family finance, and similar areas. This course builds knowledge, skills, attitudes, and behaviors that students will need as they complete high school and prepare to take the next steps toward adulthood in today's society. The course includes the study of interpersonal standards, lifespan roles and responsibilities, individual and family resource management, and financial responsibility and

resources. A project-based approach that utilizes higher order thinking, communication, leadership, management processes, and fundamentals to college and career success is recommended in order to integrate these topics into the study of adult roles and responsibilities. Direct, concrete mathematics and language arts proficiencies will be applied. Service learning and other authentic applications are strongly recommended. This course provides the foundation for continuing and postsecondary education in all career areas related to individual and family life.

5360 ADVANCED CHILD DEVELOPMENT (semester)

Grades 9-12

Advanced Child Development is for those students interested in life foundations, academic enrichment, and/or careers related to knowledge of children, child development, and nurturing of children. This course addresses issues of child development from age 4 through age 12. It builds on the *Child Development* course, which is a prerequisite. *Advanced Child Development* includes the study of professional and ethical issues in child development; child growth and development; child development theories, research, and best practices; child health and wellness; teaching and guiding children; special conditions affecting children; and career exploration in child development and nurturing. A project-based approach that utilizes higher order thinking, communication, leadership, management, and fundamentals to college and career success is recommended in order to integrate these topics into the study of child development. Direct, concrete mathematics and language arts proficiencies will be applied. Service learning, introductory laboratory/field experiences with children in preschool and early elementary school settings, and other authentic applications are strongly recommended. This course provides a foundation for continuing and post-secondary education in all career areas related to children, child development, and nurturing of children.

Prerequisite: "C" or higher in Child Development

5340 ADVANCED NUTRITION AND WELLNESS (semester)

Grades 9-12

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

Prerequisite: "C" or higher in Nutrition & Wellness

5344 BIOCHEMISTRY OF FOODS (year)

Grades 10-12

Biochemistry of Foods is a two-semester course that provides students with opportunities to participate in a variety of activities including laboratory work. This is an in-depth study of the application of scientific principles integrating biology, chemistry, and microbiology in the context of foods and the global food industry. Students enrolled in this course formulate, design, and carry out food-based laboratory and field investigations as an essential course component. Students understand how biology,

chemistry, and physics principles apply to the composition of foods, the nutrition of foods, food product development, food processing, food safety and sanitation, food packaging, and food storage. Students completing this course will be able to apply the principles of scientific inquiry to solve problems related to biology, physics, and chemistry in the context of highly advanced industry applications of foods.

THIS COURSE FULFILLS A CORE 40 SCIENCE REQUIREMENT

NOTE: This course will NOT fulfill a Science requirement for NCAA Eligibility purposes.

5362 CHILD DEVELOPMENT (semester)

Grades 9-12

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

5364 INTERPERSONAL RELATIONSHIPS (semester)

Grades 9-12

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

5342 NUTRITION AND WELLNESS (semester)

Grades 9-12

Nutrition and Wellness is an introductory course valuable for all students as a life foundation and academic enrichment; it is especially relevant for students interested in careers related to nutrition, food, and wellness. This is a nutrition class that introduces students to only the basics of food preparation so they can become self-sufficient in accessing healthy and nutritious foods. Major course topics include nutrition principles and applications; influences on nutrition and wellness; food preparation, safety, and sanitation; and science, technology, and careers in nutrition and wellness. A project-based approach that utilizes higher order thinking, communication, leadership, management

processes, and fundamentals to college and career success is recommended in order to integrate these topics into the study of nutrition, food, and wellness. Food preparation experiences are a required component. Direct, concrete mathematics and language arts proficiencies will be applied. This course is the first in a sequence of courses that provide a foundation for continuing and post-secondary education in all career areas related to nutrition, food, and wellness.

5394 PREPARING FOR COLLEGE AND CAREERS (semester)

Grades 9-12

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

HEALTH & PHYSICAL EDUCATION

3506 HEALTH & WELLNESS EDUCATION (semester)

Grades 9-12

Health & Wellness, a course based on *Indiana's Academic Standards for Health & Wellness*, provides the basis to help students adopt and maintain healthy behaviors. Through a variety of instructional strategies, students practice the development of functional health information (essential concepts); determine personal values that support health behaviors; develop group norms that value a healthy lifestyle; develop the essential skills necessary to adopt, practice, and maintain health-enhancing behaviors. Priority areas include: promoting personal health and wellness, physical activity, healthy eating, promoting safety and preventing unintentional injury and violence, promoting mental and emotional health, a tobacco-free lifestyle and an alcohol- and other drug-free lifestyle and promoting human development and family health.

3542/3544 PHYSICAL EDUCATION I/PHYSICAL EDUCATION II (year)

Grades 9-12

Physical Education 1 and 2 focuses on instructional strategies through a planned, sequential, and comprehensive physical education curriculum which provide students with opportunities to actively participate in at least eight of the following: team sports; dual sport activities; individual physical activities; outdoor pursuits; self-defense and martial arts; aquatics; gymnastics; and dance, all which are within the framework of lifetime physical activities and fitness. Ongoing assessment includes both written and performance-based skill evaluation.

3542/3544 PHYSICAL EDUCATION I/PHYSICAL EDUCATION II, ADVANCED PHYSICAL DEVELOPMENT

(year)

Grades 9

This course incorporates the components of 3542/3544 Physical Education with an additional emphasis on weight training, speed, and agility.

Prerequisite: WBHS Athletic team participation and coach recommendation

3560 BEGINNING WEIGHT TRAINING (semester or year)

Grades 10-12

This class is for competitive athletes to continue their knowledge of the basic strength movements with an enhanced focus on technique and total body strength. All athletes will be coached in a program that is designed to increase muscular strength, endurance, and power. Each student will also be coached to improve multi-directional speed, acceleration, and change of direction. This course will provide athletes the opportunity to start creating healthy lifestyle habits and understand the importance of exercise. Students will be evaluated on participation and effort to improve strength and overall fitness.

Prerequisite: C or better in Physical Education and must be an active member of a high school sports team.

3560 ADVANCED WEIGHT TRAINING (semester or year)

Grades 11-12

This class is for competitive athletes to build on their knowledge of basic strength movements to incorporate the Olympic lifts. All athletes will be coached on proper form and technique with an emphasis on power production. Each student will also be coached to improve multi-directional speed, acceleration, and change of direction. This course will provide athletes the opportunity to develop teamwork and leadership skills to utilize in their respective sport. Students will be evaluated on participation and effort in training to improve overall athletic ability.

Prerequisite: Basic Weight Training and must be an active member of a high school sports team.

3560 LIFETIME FITNESS (semester or year)

Grades 10-12

This class is open to all students. Students will be instructed in a variety of fitness activities chosen to increase heart rate and improve fitness. Students will be evaluated on improvement in strength, fitness, and knowledge of methods used in class.

LIFEGUARDING (semester or year)

Grades 10-12

Western Boone utilizes lifeguards to assist the Physical Education staff in the pool throughout the year. Students do not earn academic credit for lifeguarding, but do receive a stipend for their participation. Students are assigned to study hall on days they are not needed in the pool.

Prerequisite: Lifeguard Certification (must be valid for entire semester and documentation must be provided to the PE Dept Chair or School Counselor).

LANGUAGE ARTS

***HONORS CRITERIA: Application with teacher recommendation, Passing ISTEP Scores, B- or higher in English. Students who earn below a B- in Honors English will be placed on probation for the following semester. Failure to earn a B- or higher in that semester will result in the student being removed from Honors English.**

1002 ENGLISH 9 or 9H (year)

English 9 is study of grammar, vocabulary, composition, and a balance of classic and contemporary literature and non-fiction.

English 9H is a faster and more comprehensive version of English 9.

1004 ENGLISH 10 or 10H (year)

English 10 is a study of grammar, vocabulary, composition, and a balance of classic and contemporary literature and non-fiction.

English 10H is an intensive study of literature and the composition process and is recommended for preparation for AP English.

1056 ENGLISH LANGUAGE AND COMPOSITION, ADVANCED PLACEMENT (year)

Grades 11-12

English Language and Composition, Advanced Placement, is an advanced placement course based on content established by the College Board. An AP course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing. This course will require a summer reading project.

Prerequisite: Approved application.

1058 ENGLISH LITERATURE AND COMPOSITION, ADVANCED PLACEMENT (year)

Grade 12

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

Prerequisite: Approved application.

1086 STUDENT MEDIA (Year)

Student Media, a course based on the High School Journalism Standards and the Student Media Standards, is the continuation of the study of journalism. Students demonstrate their ability to do journalistic writing and design for high school media and yearbooks. Students follow the ethical principles and legal boundaries that guide scholastic journalism. Students express themselves publicly with meaning and clarity for the purpose of informing, entertaining, or persuading. Students work on high school media staffs so that they may prepare themselves for career paths in journalism, communications, writing, or related fields. Students use course content to become knowledgeable of theme development, cover and end sheet design, interviewing, feature writing, layout, sales design, and advertising. Students will use computer programs such as Adobe PhotoShop and Jostens Year-Tech program along with excel to complete daily tasks. In addition, student will use digital cameras with zoom lenses and scanners. Evaluation is based upon the student's work ethic, completed layouts and feature stories, and completion of requirements. Excellent attendance and punctuality are essential.

Prerequisite: Approved application

Students who are not taking AP English during their junior and/or senior year will complete American Literature during their junior year. The remaining credits are at the student's preference and as available in the master schedule.

1020 AMERICAN LITERATURE (Year)

Grade 11

American Literature, a course based on the Indiana Academic Standards for English/Language Arts, is a study of representative works and authors of the United States. Students read, analyze, evaluate, critique, and actively respond to a wide variety of literary genres that reflect American culture, including quality works of various ethnic and cultural minorities. Students compare readings and media from literature, history, and other subjects by demonstrating how the ideas and concepts presented in the works are interconnected, distinctly American, and important to an understanding of the development of the current culture. This class will also include a 20% Time Project.

1028 DRAMATIC LITERATURE (semester)

Grade 12

Dramatic Literature, a course based on the Indiana Academic Standards for English/Language Arts, is a study of plays and literary art as different from other literary genres. Students view live, televised, or filmed productions and stage scenes from plays or scripts. Students examine tragedies, comedies, melodramas, musicals or operas created by important playwrights and screenwriters representing the literary movements in dramatic literature. Students analyze how live performance alters interpretation from text and how developments in acting and production have altered the way we interpret plays or scripts. Students analyze the relationship between the development of dramatic literature as entertainment and as a reflection of or influence on the culture.

1030 ENGLISH LITERATURE (semester)

Grade 12

English Literature, a course based on the Indiana Academic Standards for English/Language Arts, is a study of representative works of the English-speaking authors associated with the Commonwealth of Nations, including England, Scotland, Ireland, Wales, Canada, Newfoundland, Australia, New Zealand, India, South Africa, Kenya, Botswana, and others. Students examine a wide variety of literary genres that reflect the English-speaking peoples from the Anglo-Saxon Period to the present. Students analyze how the ideas and concepts presented in the works are both interconnected and distinctly reflective of the cultures and the countries in which they were written.

1034 FILM LITERATURE (semester)

Grade 12

Film Literature, a course based on the Indiana Academic Standards for English/Language Arts, is a study of how literature is adapted for film or media and includes role playing as film directors for selected screen scenes. Students read about the history of film, the reflection or influence of film on the culture, and issues of interpretation, production and adaptation. Students examine the visual interpretation of literary techniques and auditory language in film and the limitations or special capacities of film versus text to present a literary work. Students analyze how films portray the human condition and the roles of men and women and the various ethnic or cultural minorities in the past and present. **FILM LITERATURE PROJECT:** Students complete a project, such as doing an historical timeline and bibliography on the development of film or the creation of a short- subject film, which demonstrates knowledge, application, and progress in the Film Literature course content.

NOTE: This course will NOT fulfill an English requirement for NCAA Eligibility purposes.

1076 SPEECH (semester)

Grade 12

Speech, a course based on *Indiana's Academic Standards for English/Language Arts* and the *Common Core State Standards for English/Language Arts Standards*, is the study and application of the basic principles and techniques of effective oral communication. Students deliver focused and coherent speeches that convey clear messages, using gestures, tone, and vocabulary appropriate to the audience and purpose. Students deliver different types of oral and multi-media presentations, including viewpoint, instructional, demonstration, informative, persuasive, and impromptu speeches.

MATH

Honors criteria: Prerequisites vary by course and are outlined in detail on the honors application, which must be completed annually. Students must complete the application and meet prerequisites for initial honors track placement. Students must maintain B- or higher each semester in the honors prerequisite for honors placement in the next course.

2520 ALGEBRA I (year)

Grades 9-12

Algebra I is the study of the real number system and of the basic algebraic concepts and techniques, solving equations, inequalities, and operation with polynomials.

2520 ALGEBRA I HONORS (year)

Grades 8-12

Honors Algebra I is a more intensive class that goes further in depth into the Algebra I State Standards and is recommended for those 8th graders who are *strong math students* and have plans to take Calculus as a senior (a 5th year of HS Math). Eighth grade students taking Honors Algebra should be aware that while the course earns high school credit, students will still be required to take a math or quantitative reasoning course all four years in high school. Additionally, if an 8th grader takes Honors Algebra and does not get at least a B- or higher each semester, he/she may be asked to retake the class as freshman to get a better foundation in order to be successful in higher level math courses.

Prerequisite: Approved application

2522 ALGEBRA II (year)

Grades 10-12

Algebra II builds on work with linear, quadratic, and exponential functions and allows for students to extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. Algebra II is made up of seven strands: Complex Numbers and Expressions; Functions; Systems of Equations; Quadratic Equations and Functions; Exponential & Logarithmic Equations and Functions; Polynomial, Rational, and Other Equations and Functions; and Data Analysis, Statistics, and Probability. The eight Process Standards for Mathematics apply throughout the course. Together with the content standards, the Process Standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

Prerequisite: Algebra I

2522 ALGEBRA II HONORS (year)

Grades 10-12

Algebra II builds on work with linear, quadratic, and exponential functions and allows for students to extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. Algebra II is made up of seven strands: Complex Numbers and Expressions; Functions; Systems of Equations; Quadratic Equations and Functions; Exponential & Logarithmic Equations and Functions; Polynomial, Rational, and Other Equations and Functions; and Data Analysis, Statistics, and Probability. The eight Process Standards for Mathematics apply throughout the course. Together with the content standards, the Process Standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

Prerequisite: Approved application

2527 CALCULUS (year)

Calculus expands a student's knowledge of topics like functions, graphs, limits, derivatives, and integrals. Additionally, students will review algebra and functions, modeling, trigonometry, etc. Calculus is made up of five strands: Limits and Continuity; Differentiation; Applications of Derivatives; Integrals; and Applications of Integrals. The eight Process Standards for Mathematics apply throughout the course. Together with the content standards, the Process Standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (*MATH211 = 4 credits) MUST HAVE EARNED DUAL CREDIT IN MATH136 AND MATH137 (PreCalc/Trig Reg or Honors) TO QUALIFY.

2532 GEOMETRY (year)

Grades 9-12

Geometry formalizes and extends students' geometric experiences from the middle grades. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving toward formal mathematical arguments. During the first semester, students will study constructions, angle relationships, parallel and perpendicular lines, polygons, special triangles, circles, planes, and congruent triangles. Second semester includes coordinate geometry, polyhedral, transformations, and logical reasoning.

Prerequisite: Algebra I

2532 GEOMETRY HONORS (year)

Grades 9-12

This course is a more intensive version of Geometry. There will be more in-depth analysis of topics such as angle relationships, parallel and perpendicular lines, planes, congruent and similar triangles, polygons, and polyhedra, which will be discussed throughout the year. This course is designed for those who anticipate taking Calculus during their senior year.

Prerequisite: Approved Application

2564 PRE-CALCULUS (REG/HONORS) (Fall)

Grades 11-12

Pre-Calculus extends the foundations of algebra and functions developed in previous courses to new functions, including exponential and logarithmic functions, and to higher-level sequences and series. The

course provides students with the skills and understandings that are necessary for advanced manipulation of angles and measurement. Pre-Calculus is made up of five strands: Polar Coordinates and Complex Numbers; Functions; Quadratic, Polynomial, and Rational Equations and Functions; Exponential and Logarithmic Equations and Functions; and Parametric Equations. Students will also advance their understanding of imaginary numbers through an investigation of complex numbers and polar coordinates. The course is designed for students who expect math to be a major component of their future college and career experiences, and as such it is designed to provide students with strong foundations for calculus and other higher-level math courses. The Process Standards for Mathematics apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Honors Pre-Calculus is a more intensive version of Pre-Calculus, designed for students who plan on taking Calculus during their senior year.

Prerequisite: Algebra I, Algebra II, and Geometry

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (*MATH136 = 3 credits)

2550 QUANTITATIVE REASONING (year)

Grades 11-12

Quantitative Reasoning is a mathematics course focused on the study of numeracy, ratio and proportional reasoning, modeling, probabilistic reasoning to assess risk, and statistics. The Process Standards for Mathematics are applied throughout and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject. Students build knowledge of and confidence with basic mathematical/analytical concepts and operations required for problem solving, decision making, and economic productivity in real world applications and prepare for an increasingly information-based society in which the ability to use and critically evaluate information, especially numerical information, is essential. Technology, such as computers and graphing calculators, should be used frequently. This higher-level mathematics course is designed to align with college-level quantitative reasoning courses.

Prerequisite: Algebra I, Algebra II, and Geometry

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (*MATH 123 = 3 credits)

2566 TRIGONOMETRY (REG/HONORS) (Spring)

Grades 11-12

Trigonometry provides students with the skills and understandings that are necessary for advanced manipulation of angles and measurement. Trigonometry provides the foundation for common periodic functions that are encountered many disciplines, including music, engineering, medicine, and finance (and nearly all other STEM disciplines). Trigonometry consists of seven strands: Conics, Unit Circle, Geometry, Periodic Functions, Identities, Polar Coordinates, and Vectors. Students will also advance their understanding of imaginary numbers through an investigation of complex numbers and polar coordinates. A strong understanding of complex and imaginary numbers is a necessity for fields such as engineering and computer programming. The Process Standards for Mathematics apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Honors Trigonometry is a more intensive version of Trigonometry, designed for students who plan on taking Calculus during their senior year.

Prerequisite: Approved application

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (*MATH137 = 3 credits)

MULTIDISCIPLINARY ELECTIVES

0502 CADET TEACHING (semester or year)

Grades 11-12

This elective course provides students in grades eleven (11) or twelve (12) organized exploratory teaching experiences in the lifeskills/special needs classroom. All teaching experiences should be preplanned by the high school Cadet Teaching Experience teacher-trainer and the cooperating teacher(s) who are supervising prospective teachers and providing them with pre-training experiences. This course provides a balance of class work relating to: (1) classroom organization, (2) classroom management, (3) the curriculum and instructional process, (4) observations of teaching, and (5) instructional experiences. Study topics and background reading provide the cadets with information concerning the teaching profession and the nature of the cadet teachers' assignments. Evaluation is based upon the cadet teachers' cooperation, day-to-day practical performance, and class work including the cadets' potential ability to teach. The total workload of the Cadet Teaching course is comparable to those for other subjects in the high school curriculum, and is a continuation of the peer tutoring experience, seeking to give a more in-depth look into special education.

Prerequisite: Peer Tutoring

0522 CAREER INFORMATION & EXPLORATION (semester/year)

Grades 11-12

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

Prerequisite: Counselor Recommendation

0524 COMMUNITY SERVICE (semester/year)

Grades 11-12

Community Service is a course created by public law IC 20-30-14, allowing juniors and seniors the opportunity to earn up to two high school credits for completion of approved community service projects or volunteer service that "relates to a course in which the student is enrolled or intends to enroll." Interested students must submit an application.

5230 INFORMATION TECHNOLOGY SUPPORT (year)

Grades 10-12

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

Prerequisite: Digital Apps & Responsibility

5408/5404 EDUCATION PROFESSIONS I & II (year, 2 periods)

Grades 11-12

Education Professions prepares students for employment in education and related careers and provides the foundation for study in higher education in these career areas. An active learning approach that utilizes higher order thinking, communication, leadership, and management processes is recommended

in order to integrate suggested topics into the study of education and related careers. The course of study includes, but is not limited to: the teaching profession, the learner and the learning process, planning instruction, learning environment, and instructional and assessment strategies. Field experiences in one or more classroom settings, resumes, and career portfolios are required components. A standards-based plan guides the students' field experiences. Students are monitored in their field experiences by the *Education Professions* teacher.

6162— COOPERATIVE EDUCATION (Formerly ICE) (year, 3 periods)

Grade 12

Cooperative Education spans all career and technical education program areas through an interdisciplinary approach to training for employment. This approach is especially valuable in enriching the small school's career and technical education program where a traditional cooperative program of clustered occupations cannot be identified because of varied student interest and diverse training stations. 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 following two components must be included as part of the Interdisciplinary Cooperative Education course.

Related Instruction, that is classroom based, shall be organized and planned around the activities associated with the student's individual job and career objectives in a career cluster area; and shall be taught during the same semesters as the student is receiving on-the-job training. The concepts, skills, and attitudes basic to occupational competence are to be taught in school and are to be applied and tested on the job. The sequence of related instructional topics in school shall be continuously correlated with the student's job activities. Because each student's on-the-job activities will vary according to the types of occupations in which they have been placed, part of the related instructional time needs to be individualized in such ways as: (a) using group instruction, but individualizing the assignment so that the learning is applied to each student's own work experience, and (b) using individual study assignments such as projects, job study guides, and individual reading assignments.

On-the-Job Training is the actual work experience in an occupation in any one of the Indiana career clusters that relates directly to the student's career objectives. On-the-job, the student shall have the opportunity to apply the concepts, skills, and attitudes learned during Related Instruction, as well as the skills and knowledge that have been learned in other courses. The student shall be placed on-the-job under the direct supervision of experienced employees who serve as on-the-job trainers/supervisors in accordance with pre-determined training plans and agreements and who assist in evaluating the student's job performance.

Prerequisite: Students must be employed by August 20, 2020.

5234 NETWORKING I (year)

Grades 11-12

Networking I introduces students to local and wide area networks, home networking, networking standards using the IEEE/OSI Model, network protocols, transmission media and network architecture/topologies. Security and data integrity are introduced and emphasized throughout this course, which offers students the critical information needed to successfully move into a role as an IT professional supporting networked computers. Concepts covered will include TCP/IP client administration, planning a network topology, configuring the TCP/IP protocol, managing network clients, configuring routers and hubs, as well as creating a wireless LAN.

Prerequisite: Information Technology Support

4588 NETWORKING II – INFRASTRUCTURE (year)

Grade 12

The OSI and TCP/IP functions and services are examined in detail. Students will learn how a router addresses remote networks and determines the best path to those networks, employing static and dynamic routing techniques.

Prerequisite: Networking I

0520 PEER TUTORING (semester or year)

Grade 11-12; Grade 10 by permission

This course is designed to promote a better and more positive understanding of students with disabilities through group and one-on-one interaction in the lifeskills classroom setting. Peer tutors will work directly with staff and lifeskills students to develop relationships and knowledge of how the special education system works. This class is both participatory and academic—students need to invest in both aspects in order to gain the most from the experience.

Prerequisite: 2.0 GPA or permission of instructor

MUSIC

4188 ADVANCED CHORUS (year)

Grades 10-12

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

Prerequisite: Spring Audition

4200 APPLIED MUSIC: GUITAR

Grades 8-12

Applied Music is based on the Indiana Academic Standards for High School Instrumental Music. Applied Music offers high school students the opportunity to receive small group or private instruction designed to develop and refine performance skills. A variety of music methods and repertoire is utilized to refine students' abilities in performing, creating, and responding to music.

4200 APPLIED MUSIC: MARCHING BAND (Summer 2020)

Entering Grades 8-12

Applied Music is based on the Indiana Academic Standards for High School Instrumental Music. Applied Music offers high school students the opportunity to receive small group or private instruction designed to develop and refine performance skills. A variety of music methods and repertoire is utilized to refine students' abilities in performing, creating, and responding to music.

4180 CHORAL CHAMBER ENSEMBLE (Star Voices) (year)

Grades 10-12

Choral Chamber Ensemble is based on the Indiana Academic Standards for High School Choral Music. Student musicianship and specific performance skills in this course are enhanced through specialized small group instruction. The activities expand the repertoire of a specific genre. Chamber ensemble

classes provide instruction in creating, performing, listening to, and analyzing music in addition to focusing on specific subject matter. Students develop the ability to understand and convey the composer's intent in performance of music. Time outside of the school day may be scheduled for rehearsals and performances. A limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students are required to participate in performance opportunities outside of the school day that support and extend learning in the classroom.

Prerequisite: Spring Audition

4186 INTERMEDIATE CHORUS (year)

Grades 9-12

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

4168 INTERMEDIATE CONCERT BAND (year)

Grades 9-12

Intermediate Concert Band is based on the Indiana Academic Standards for High School Instrumental Music. This course includes a balanced comprehensive study of music that develops skills in the psychomotor, cognitive, and affective domains. Ensemble and solo activities are designed to develop elements of musicianship including tone production, technical skills, intonation, music reading skills, listening skills, analyzing music, studying historically significant styles of literature, and integration of other applicable disciplines. Students study a varied repertoire of developmentally appropriate concert band literature and develop the ability to understand and convey the composer's intent in performance of music. Time outside of the school day may be scheduled for rehearsals and performances. A limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students are required to participate in performance opportunities outside of the school day that support and extend learning in the classroom; including, but not limited to all pep band games and concerts.

Prerequisite: Concert Instrument Proficiency of at least 8th grade level

4206 MUSIC HISTORY AND APPRECIATION (year)

Grades 9-12

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

4208 MUSIC THEORY AND COMPOSITION (year)

Grades 10-12

Music Theory and Composition is based on the Indiana Academic Standards for Music and standards for this specific course. Students develop skills in the analysis of music and theoretical concepts. They

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

Prerequisite: Permission of Instructor

PROJECT LEAD THE WAY

4826 DIGITAL ELECTRONICS (year)

Grades 10-12

Digital Electronics is a course of study in applied digital logic that encompasses the design and application of electronic circuits and devices found in video games, watches, calculators, digital cameras, and thousands of other devices. Instruction includes the application of engineering and scientific principles as well as the use of Boolean algebra to solve design problems. Using computer software that reflects current industry standards, activities should provide opportunities for students to design, construct, test, and analyze simple and complex digital circuitry software will be used to develop and evaluate the product design. This course engages students in critical thinking and problem-solving skills, time management and teamwork skills.

Prerequisite: Intro to Engineering Design

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (*EECT112 = 3 credits)

4812 INTRODUCTION TO ENGINEERING DESIGN (year)

Grades 9-12

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

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (DESN101 = 3 credits)

4814 PRINCIPLES OF ENGINEERING (year)

Grades 10-12

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

Prerequisite: Intro to Engineering Design

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (DESN104 = 3 credits)

RADIO/TV

7139 Principles of Radio & TV (year)

Grades 9-12

Principles of Radio & TV provides an introduction to the fundamentals of digital production. Students will develop basic skills in digital production techniques for audio, video, studio, and field production. DUAL CREDIT IS AVAILABLE THROUGH VINCENNES UNIVERSITY (BCST 102, BCST 110)

7135/7137 Audio & Video Production/Mass Media Performance (Formerly Known as Radio TV I)(2 periods—full year vocational program at Western Boone)

Grades 11-12

Audio and Video Production provides an in-depth study on audio and video production techniques for radio, television, and digital technologies. Students will learn skills necessary for audio production and on-air work used in radio and other digital formats. Additionally, experience will be gained in the development of the video production process; including skills in message development, directing, camera, video switcher, and character generator operations. Students will study the theory and practice in the voice and visual aspects of radio and television performance. In addition, this course introduces the skills used to acquire and deliver news stories in a digital media format. Students will learn how to research issues and events, interview news sources, interact with law enforcement and government officials, along with learning to write in a comprehensive news style.

DUAL CREDIT IS AVAILABLE THROUGH VINCENNES UNIVERSITY (BCST 120, BCST 140)

5992 RADIO TV II (year)

Grade 12

Students will work to produce a daily newscast and podcasts in this mostly hands-on class. Students also work with clients in the community to produce commercials and special projects. Some other projects may include sports play-by-play, computer editing, music video production, and directing and production of a horror movie. Students may have the opportunity to be a part of the WBTV Sports Broadcast Team.

Prerequisite: Radio TV I

DUAL CREDIT IS AVAILABLE THROUGH VINCENNES UNIVERSITY (BCST 206)

SCIENCE

5276 ANATOMY & PHYSIOLOGY (year)

Grades 11-12

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

Prerequisite: Biology & Chemistry

DUAL CREDIT AVAILABLE THROUGH IVY TECH (*APHY101 = 3 credits + APHY102 = 3 credits)

3024 BIOLOGY I (year)

Grades 9-12

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

3020 BIOLOGY, ADVANCED PLACEMENT (year)

Grades 11-12

Biology, Advanced Placement is a course based on the content established by the College Board. The major themes of the course include: The process of evolution drives the diversity and unity of life; Biological systems utilize free energy and molecular building blocks to grow, to reproduce and to maintain dynamic homeostasis; Living systems store, retrieve, transmit and respond to information essential to life processes; Biological systems interact; and these systems and their interactions possess complex properties.

Prerequisite: Biology and Chemistry with B- or higher each semester or by permission.

3064 CHEMISTRY I (year)

Grades 10-12

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

Prerequisite: Biology I and Algebra I

3060 CHEMISTRY, ADVANCED PLACEMENT (year)

Grades 11-12

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

Prerequisites: Chemistry I and Algebra II with B- or higher each semester or by permission.

3044 EARTH AND SPACE SCIENCE I (year)

Grades 9-12

Earth and Space Science I is a course focused on the following core topics: study of the Earth's layers; atmosphere and hydrosphere; structure and scale of the universe; the solar system and earth processes. Students analyze and describe Earth's interconnected systems and examine how earth's materials, landforms, and continents are modified across geological time. Instruction should focus on developing student understanding that scientific knowledge is gained from observation of natural phenomena and experimentation by designing and conducting investigations guided by theory and by evaluating and communicating the results of those investigations according to accepted procedures.

3108 INTEGRATED CHEMISTRY-PHYSICS (year)

Grades 9-12

Integrated Chemistry-Physics is a course focused on the following core topics: motion and energy of macroscopic objects; chemical, electrical, mechanical and nuclear energy; properties of matter; transport of energy; magnetism; energy production and its relationship to the environment and economy. Instruction should focus on developing student understanding that scientific knowledge is gained from observation of natural phenomena and experimentation by designing and conducting investigations guided by theory and by evaluating and communicating the results of those investigations according to accepted procedures.

3084 PHYSICS I (year)

Grades 11-12

Physics I is a course focused on the following core topics: motion and forces; energy and momentum; temperature and thermal energy transfer; electricity and magnetism; vibrations and waves; light and optics. Instruction should focus on developing student understanding that scientific knowledge is gained from observation of natural phenomena and experimentation by designing and conducting investigations guided by theory and by evaluating and communicating the results of those investigations according to accepted procedures.

Prerequisite: Chemistry I and Trigonometry (previously or concurrently).

3080 PHYSICS 1, ADVANCED PLACEMENT (year) ONLINE ONLY

Grades 11-12

Physics 1: Algebra-based, Advanced Placement is equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound. It will also introduce electric circuits.

THIS COURSE IS AVAILABLE ONLINE THROUGH THE INDIANA ACADEMY OF MATH AND SCIENCES. STUDENTS WILL WORK INDEPENDENTLY VIA ONLINE LECTURES AND ASSIGNMENTS. SEE YOUR COUNSELOR FOR DETAILS.

SOCIAL STUDIES

1514 ECONOMICS (semester)

Grades 11-12

Economics examines the allocation of resources and their uses for satisfying human needs and wants. The course analyzes economic reasoning used by consumers, producers, savers, investors, workers, voters, and government in making decisions. Key elements of the course include study of scarcity and economic reasoning, supply and demand, market structures, role of government, national income determination, the role of financial institutions, economic stabilization, and trade. Students will explain that because resources are limited, people must make choices and understand the role that supply, demand, prices, and profits play in a market economy. The functions of government in a market economy and market structures will be examined. Students will understand economic performance, money, stabilization policies, and trade of the United States. The behavior of people, societies and institutions and economic thinking is integral to this course.

1516 ETHNIC STUDIES (semester)

Grades 9-12

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.

1570 GEOGRAPHY AND HISTORY OF THE WORLD (year)

Grades 9-12

Geography and History of the World is designed to enable students to use geographical skills and historical concepts to deepen their understanding of major global themes including the origin and spread of world religions; exploration; conquest, and imperialism; urbanization; and innovations and revolutions.

Geographical and historical skills include forming research questions, acquiring information by investigating a variety of primary and secondary sources, organizing information by creating graphic representations, analyzing information to determine and explain patterns and trends, and presenting and documenting findings orally and/or in writing. The historical geography concepts used to explore the global themes include change over time, origin, diffusion, physical systems, cultural landscapes, and spatial distribution and interaction.

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

1518 INDIANA STUDIES (semester)

Grades 9-12

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.

1566 MICROECONOMICS, ADVANCED PLACEMENT (year)

Grade 12 (Grade 11 by permission)

Microeconomics, Advanced Placement is a course based on content established by the College Board. The course gives students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economics system. Topics include: (1) basic economic concepts, (2) the nature and functions of product markets, (3) factor markets, and (4) market failure and the role of government.

THIS COURSE FULFILLS THE ECONOMICS REQUIREMENT FOR ALL DIPLOMA TYPES.

1532 PSYCHOLOGY (semester or year)

Grade 12

Psychology is the scientific study of mental processes and behavior. The course is divided into six content areas and uses the scientific methods to explore research methods and ethical consideration.

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

1540 UNITED STATES GOVERNMENT (semester)

Grades 11-12

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

1542 UNITED STATES HISTORY (year)

Grades 10-12

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

1562 UNITED STATES HISTORY, ADVANCED PLACEMENT (year)

Grade 11-12

AP United States History is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. AP United States History focuses on developing students' abilities to think conceptually about U.S. history from approximately 1491 to the present and apply historical thinking skills as they learn about the past. Seven themes of equal importance — identity; peopling; politics and power; work, exchange, and technology; America in the world; environment and geography; and ideas, beliefs, and culture — provide areas of historical inquiry for investigation throughout the course. These require students to reason historically about continuity and change over time and make comparisons among various historical developments in different times and places.

Prerequisites: AP World History Modern or A each semester in US History or by permission

1548 WORLD HISTORY AND CIVILIZATION (year)

Grades 9-12

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

1576 WORLD HISTORY: MODERN, ADVANCED PLACEMENT (year)

Grades 10-12

World History: Modern, Advanced Placement is a course that provides students with the content established by the College Board. The course will have a chronological frame from the periods 8000 B.C.E. to the present. AP World History Modern focuses on five overarching themes: Interaction between Humans and the Environment, Development and Interaction of Cultures, State-Building, Expansion, and Conflict, Creation, Expansion, and Interaction of Economic Systems, Development and Transformation of Social Structures.

Prerequisites: A in World History or by permission

SPANISH

Students who receive an F for the first semester may not proceed to semester 2.

2120 SPANISH I (year)

Grades 9-12

Spanish I introduces students to strategies for beginning Spanish language learning, and to various aspects of Spanish-speaking culture. This course encourages interpersonal communication through speaking and writing, making and responding to basic requests and questions, understanding and using appropriate greetings and forms of address, participating in brief guided conversations and skits on familiar topics, and writing short passages. This course also emphasizes the development of reading and listening comprehension skills, such as reading isolated words and phrases in a situational context and comprehending brief written or oral directions. Additionally, students will examine the practices, products and perspectives of Spanish-speaking culture; recognize basic routine practices of the culture; and recognize and use situation-appropriate non-verbal communication. This course further emphasizes making connections across content areas and the application of understanding Spanish language and culture outside of the classroom. Topics and projects include: alphabet, counting, clothing, telling time and date, foods, colors, weather, general activities and hobbies, family, writing an autobiography and other compositions, dialogues, games, music, and more.

No prerequisite; a strong command of English grammar and a grade-equivalent NWEA reading score are recommended. This course is open to 8th graders who earn an A in English 7 or B+ in English 7 Honors.

2122 SPANISH II (year)

Grades 10-12

Spanish II builds upon effective strategies for Spanish language learning by encouraging the use of the language and cultural understanding for self-directed purposes. There is a stronger focus in the areas of grammar and vocabulary; thus, students are expected to actively participate using the target language.

This course encourages interpersonal communication through speaking and writing, making and responding to requests and questions in expanded contexts, participating independently in brief conversations on familiar topics, and writing cohesive passages with greater independence and using appropriate formats. This course also emphasizes the development of reading and listening comprehension skills. Students will address the presentational mode by presenting prepared material on a variety of topics, as well as reading aloud to practice appropriate pronunciation and intonation. Additionally, students will describe the practices, products and perspectives of Spanish-speaking culture; report on basic family and social practices of the target culture; and describe contributions from the target culture. This course further emphasizes making connections across content areas and the application of understanding Spanish language and culture outside of the classroom. Various projects and topics include: Present, preterite (simple past), and conditional tenses, commands and requests, emotions, clothing, Fashion Show Project, food vocabulary, body parts vocabulary, and reading a short novel in Spanish.

Prerequisite: Spanish I with a C- or higher in each semester; a local assessment score of 80% or higher in Spanish I is highly recommended.

2124 SPANISH III (year)

Grades 11-12

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

Prerequisite: Spanish II with a C- or higher in each semester; a local assessment score of 80% or higher in Spanish II is highly recommended.

2124 SPANISH III Honors (year)

Grades 11-12

In addition to the Spanish III course description, Spanish III Honors is a fast-paced continuation of Spanish II focusing on language structure and communication. While Spanish III Honors is still a course based on *Indiana's Academic Standards for World Languages*, much of the vocabulary and grammar will be introduced and taught through literature, art, culture and skits. Students will participate in World Tours and will also complete rigorous projects including two writing prompts and three oral presentations per nine weeks. Spanish III Honors is conducted in Spanish and daily participation is required. To maintain eligibility for the Honors class, students must maintain a 9 weeks grade of 80% or higher and must complete 2 written assignments and three oral presentations per nine weeks. Students wishing to take Spanish IV must complete Spanish III Honors.

Prerequisite: Spanish II with a B- or higher in each semester and minimum 80% on Spanish II end of course assessment

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (*SP101 = 4 credits, *SP102 = 4 credits)

2126 SPANISH IV (year)

Grade 12

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

Prerequisite: Spanish III Honors with a B- or higher in each semester or teacher nomination

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (*SP201 = 3 credits, *SP202 = 3 credits)

TECHNOLOGY EDUCATION

4784 INTRODUCTION TO MANUFACTURING (semester or year)

Introduction to Manufacturing is a course that specializes in how people use modern manufacturing systems through an introduction to manufacturing technology and its relationship to society, individuals, and the environment. This understanding is developed through the study of the two major technologies, material processing and management technology, used by all manufacturing enterprises. Students will apply the skills and knowledge of using modern manufacturing processes to obtain resources and change them into industrial materials, industrial products and consumer products. Students will investigate the properties of engineered materials such as: metallics, polymers, ceramics, and composites. After gaining a working knowledge of these materials, students will study six major types of material processes: casting and molding; forming; separating; conditioning; finishing; and assembling.

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (ADMF 101 = 3 credits)

4792 INTRODUCTION TO CONSTRUCTION (year)

Grades 10-12

Introduction to Construction is a course that will offer hands-on activities and real world experiences related to the skills essential in residential, commercial and civil building construction. During the course students will be introduced to the history and traditions of construction trades. The student will also learn and apply knowledge of the care and safe use of hand and power tools as related to each trade. In addition, students are introduced to blueprint reading, applied math, basic tools and equipment, and safety. Students will demonstrate building construction techniques, including concrete and masonry, framing, electrical, plumbing, dry walling, HVAC, and painting as developed locally in accordance with available space and technologies. Students learn how architectural ideas are converted into projects and how projects are managed during a construction project in this course. Students study construction

technology topics such as preparing a site, doing earthwork, setting footings and foundations, building the superstructure, enclosing the structure, installing systems, finishing the structure, and completing the site. Students also investigate topics related to the purchasing and maintenance of structures, special purpose facilities, green construction and construction careers.

CTE PROGRAMS

J. Everett Light

Programs are held at J. Everett Light on the campus of North Central High School on the north side of Indianapolis and students are responsible for their own transportation. Students should allow 1 additional class period from the time listed for travel time (i.e. 3 credits=4 class periods per day away from Western Boone).

5608 ADVANCED MANUFACTURING TECHNOLOGY (ONE OR TWO YEARS, 3 CREDITS PER SEMESTER)

Students learn the skills and technology needed to launch a career in engineering, manufacturing, or logistics. Students will create computer generated designs with industry leading software using engineering principles. State of the art equipment including 3D printing, laser engravers, and computer controlled machinery is used to produce professional products that meet customer expectations.

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (MPRO 102, MPRO 122, MPRO 201 = 9 credits) in year 1

Certification Opportunity: APICS Logistics, APICS Operations, MSSC Safety, MSSC Quality, Ivy Tech White Belt, MSSC CPT

5514/5544 AUTOMOTIVE COLLISION REPAIR TECHNOLOGY (One or two years, 2-3 credits per semester)

Students study a wide range of processes, methods, and materials in keeping with the high-tech nature of today's automotive collision repair industry. State of the art equipment is used in this program. Students will also get experience in custom painting techniques. We are an I-Car Alliance Training facility.

DUAL CREDIT IS AVAILABLE THROUGH VINCENNES UNIVERSITY (BODY100, BODY100L, BODY150, BODY150L = 14 credits) in year 1

Certification Opportunity: SP2 Certificates in Collision Safety, Collision Pollution Prevention; ASE Certifications: B2 Paint & Refinishing, B3 Non-Structural Analysis/Repair for Technology 1 & 2 in year 1

5510/5546 AUTO MAINTENANCE/DETAILING (One year, 2-3 credits per semester)

Students will learn how to professionally clean an automobile and prepare for auto detailing jobs available in the area. This course covers basic detailing, including the fundamentals of engine detailing, interior and exterior cleaning, and waxing and buffing techniques. Students will also learn the proper use of chemicals and tools, how to recognize auto problems, and how to estimate cost and time requirements. Students will explore minor auto repair, including engine performance, tires, brakes, automotive electricity and minor exterior modifications and repairs.

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (AUTI 100 = 3 credits)

Certification Opportunity: SP2 Certificates in Shipping Hazardous Materials, Mechanical Pollution Prevention & Mechanical Safety, Valvoline Motor Oil Basics, and Training & Skills Competency Guarantee

5510/5546 AUTOMOTIVE SERVICE TECHNOLOGY (One or two years, 2-3 credits per semester)

Classroom and lab activities include instruction in the basics of automotive operation, service, and maintenance. The course is based on unit information starting at the lowest skill level and building to employment level.

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (AUTI 100 = 3 credits; AUTI 141 = 3 credits) in year 1

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (AUTI 121 = 3 credits; AUTI 122 = 3 credits) in year 2

Certification Opportunity: SP2 Certificates in Shipping Hazardous Materials, Mechanical Pollution Prevention & Mechanical Safety, Valvoline Motor Oil Basics, and Training Skills Competency Guarantee in Year 1

Certification Opportunity: Automotive Service Excellence Student Certification in Year 2

5822/5824 CRIMINAL JUSTICE I & II (One or two years, 3 credits per semester)

This class is designed to provide the knowledge and skills necessary to enter the Criminal Justice field. Students will study the basic fundamentals of the criminal justice system and how they apply in today's society. The program consists of hands-on activities and requires the ability to participate in physical fitness activities. DUAL CREDIT IS AVAILABLE THROUGH VINCENNES UNIVERSITY (LAW100 = 3 credits; LAW150 = 3 credits; LAW101 = 3 credits; LAW145 = 3 credits;) in Year 1
Certification Opportunities: CPR, AED, Basic First Aid, National Incident Management in Year 1

5440/5346 CULINARY ARTS & HOSPITALITY I & II (One or two years, 3 credits per semester)

Students will spend the first year learning all the basics of cooking and the second year concentrating on such areas as international foods, baking and pastry, entrepreneurship and hospitality. Students will have the opportunity to work in our restaurant. All students will have the opportunity to be Serv-Safe certified. Students can compete in various culinary competitions through our student CTOs.

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (*HOSP101 = 2 credits) in year 1

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (HOSP104 = 3 credits) in year 2

Certification Opportunity: Prostart National Certificate and ServSafe in Year 1

5203/5204 DENTAL CAREERS I & II (Chairside/Lab) (One or two years, 3 credits per semester)

Do you notice people's smiles? Do you want to be a part of a career that puts smiles on people? A career as a dental assistant will provide you with a stable, respected job that can be obtained after your high school graduation and make you smile. Students will study dental anatomy, dental terminology, nutrition, and oral diseases. Skills will be developed in sterilization, operative procedures, radiographs, and patient management. Students will gain leadership skills developed through HOSA participation. Upon successful completion of the two year program, students will be qualified to take the state certification exam in radiology.

Certification Opportunities: DANB Infection Control, American Heart BLS in year 1

Certification Opportunity: DANB Radiation Health & Safety in year 2

5550 DIGITAL DESIGN AND LAYOUT (One year, 3 credits per semester)

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

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (*VISC102 = 3 credits; *VISC115 = 3 credits) in year 1

5412/5406 EARLY CHILDHOOD EDUCATION 1 & 2 (One or two years, 3 credits per semester)

Develop a working knowledge of licensing regulations, nutrition, health, safety, and sanitation. Learn to plan, develop, teach and supervise activities enhancing the pre-school age child's physical, emotional, social and intellectual development. Obtain hands-on experience by volunteering in our on-site licensed child care center and participating in an internship at a local child care center or elementary school. In addition, second year students work towards CDA (Child Development Associate).

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (*ECED101= 3 credits; *ECED100 = 3 credits, *ECED103 = 3 credits) in year 1

Certification Opportunities: 1-2 Additional Ivy Tech courses needed for CDA after completion of 2-year JEL Program

5210 EMERGENCY MEDICAL TECHNICIAN (One year, 3 credits per semester)

Senior or 17 years old by Nov. 1

Students will learn the skills to act in a time of emergency that could save someone's life. This semester course will teach skills such as airway management, splinting of fractured bones, actions to take in respiratory emergencies, Adult, Child & Infant CPR, and how to take blood pressures and vital signs. During the spring semester, students will continue to add to their skillset in emergency first aid, analyzing different types of emergency situations,

transporting patients, etc. Student will gain leadership skills developed through HOSA participation. Upon successful completion of this class, students may be qualified to take the state certification exam. To obtain the necessary clinical hours and patient contact, students must provide their own transportation to the clinical sites. Clinic hours can be obtained evenings or weekends if parent transportation is needed.
DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (HSPS102 = 3 credits; HSPS125 = 3 credits PARM102 = 7.5 credits)
Certification Opportunities: AHA Healthcare Provider CPR/EMR and Nat Registered EMT (Must be 17 years old by May 1 to earn certification)

5282 HEALTH SCIENCE EDUCATION I (One year, 2 credits per semester)

Learn skills related to a range of health career topics: patient nursing care, dental care, animal care, medical laboratory, public health, and introduction to the health care systems, anatomy, physiology, and medical terminology. Gain leadership skills developed through HOSA participation. Participate in lab experiences related to your career objectives. Job preparation and completion of the application process for admission into a post-secondary program of your choice are also included in this course.

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (HLHS100 = 3 credits; HLHS102 = 3 credits)

Certification Opportunity: AHA BLS CPR Certification for Healthcare Providers

5284 HEALTH SCIENCE EDUCATION II: NURSING (One year, 3 credits per semester)

This program prepares students for a nursing assistant position in health care facilities and also provides an exploration of the various careers in the health care industry. Students will gain leadership skills developed through HOSA participation. Students can earn a CNA Certificate if qualifying test is passed.

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (HLHS107; HLHS 113 = 6 credits)

Certification Opportunities: Certified Nursing Assistant (CNA), AHA BLS CPR Certification for Healthcare Providers

5286 HEALTH SCIENCE EDUCATION II: NURSING/MED. ASSISTING (One year, 2 or 3 credits/semester)

Explore health related disciplines and learn associated entry level skills for the medical office. Learn to assist in the performance of diagnostic procedures and physical examinations. Gain leadership skills developed through HOSA participation. Successful completion will result in CPR certification. Students will experience classroom instruction and practical hands-on experience in an actual medical facility if they choose the 3 hour option. Personal transportation to clinical site is **REQUIRED** for the 3 hour option.

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (HLHS100 = 3 credits)

Certification Opportunity: AHA BLS CPR Certification for Healthcare Providers, NCHSE (Nat Consortium for Health Science Education) Certification

INFORMATION TECHNOLOGY: CYBERSECURITY, NETWORKING, & CODING (One or two years, 3 credits/semester)

Students will immerse themselves into projects related to current IT careers. CISCO software will be utilized.

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (INFM 109, NETI 109, SDEV 120, SDEV 140) in year 1 (NETI 119, ITSP175, DBMS 110) in year 2. *Dual Credits are offered dependent on specific IT path chosen.

Certification Opportunity: CCENT, CLA, CCNA CyberOps, CompTIA Security

5986/5992 RADIO & TV 1 & 2: ANIMATION/FILM (One or two years, 2 credits per semester)

Have you ever wondered how movies and animations are made? Then this 2-hour class is for you. You'll learn the basics of creating simple animations, the cinematography skills necessary to shoot films and the editing skills to put everything together into a complete project. This course will give you the skills necessary to produce your own films and animations, obtain an entry-level job or expand on your education in college.

DUAL CREDIT IS AVAILABLE THROUGH VINCENNES (BCST102 = 3 credits; BCST140 = 3 credits BCST 120 = 3 credits) in year 1 (BCST 206 = 3 credits) in year 2

Certification Opportunity: Adobe Certified Associate-Adobe Premiere

5986/5992 RADIO & TV 1 & 2: MUSIC/SOUND (One or two years, 2 credits per semester)

Any successful career in the Music Industry starts with a passion for music and a solid foundation of digital audio recording and mixing skills. You will produce creative music and mixes with instruments and cutting-edge software used in the recording industry. Through class projects, you will develop skills in music composition, editing, engineering, sound editing, mixing and movie soundtrack creation. You will have the opportunities to participate in the organization, production, and marketing of a live concert and showcase your talent in live performances on our in-house radio station (WJEL 89.3).

DUAL CREDIT IS AVAILABLE THROUGH VINCENNES (BCST102 = 3 credits; BCST120 = 3 credits) in year 1

Certification Opportunities: Avid Pro Tools in year 1

5211/5212 VETERINARY CAREERS I & II (One or two years, 3 credits per semester)

Students will be introduced to the science and art of providing professional support to veterinarians. Students will be instructed in basic anatomy and physiology, medical terminology, and veterinary technician assisting skills.

Students will gain leadership skills developed through HOSA participation. Students must have own transportation.

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (AGRI 107 = 3 credits) in year 1

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (AGRI 103 = 3 credits) in year 2

5776/5778 WELDING TECHNOLOGY I & II (One or two years, 2 or 3 credits per semester)

This class is designed to develop skills in stick, mig, and tig welding. Students will also use plasma arc cutters and band/cutoff saws.

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (WELD 100 = 3 credits, WELD108 = 3 credits) in year 1

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (WELD207 = 3 credits; WELD208 = 3 credits) in year 2

Certification Opportunity: American Welding Society in year 1

Certification Opportunity: AWS SENSE in year 2

West Central Career and Technical Education

Programs through West Central Career and Technical Education meet at various locations as listed. Transportation will be provided to most programs. Students should plan to be offsite for class periods as indicated.

7213/7205/7212 PRINCIPLES OF AUTOMOTIVE SERVICES/AUTOMOTIVE BRAKES & ELECTRICAL/ENGINE PERFORMANCE (FORMERLY KNOWN AS AUTOMOTIVE TECHNOLOGY SERVICES I) (year, 3 credits per semester)

Location: Paul L. Pfledderer Career & Tech Center, Crawfordsville

This course gives students an overview of the operating and general maintenance systems of the modern automobile. Students will be introduced to the safety and operation of equipment and tools used in the automotive industry. Students will study the maintenance and light repair of automotive systems. Also, this course gives students an overview of the electrical operating systems of the modern automobile. Students will be introduced to the safety and operation of equipment and tools used in the electrical diagnosis and repair in the automotive electrical industry. Students will study the fundamentals of electricity and automotive electronics. Students will study the fundamentals of electricity and automotive electronics in various automotive systems. Additionally it teaches theory, service and repair of automotive braking systems. This course provides an overview of various mechanical brake systems used on today's automobiles. This course will emphasize professional diagnosis and repair methods for brake systems. This course presents engine theory and operation and studies the various engine designs utilized today. This course also takes an in-depth look at engine performance, including advanced concepts in the diagnosis and repair of ignition, fuel, emission and related computer networks. This course presents engine theory and operation and studies the various engine designs utilized today.

Hybrid/Alternative fuel technology will also be introduced.

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (AUTI 100, AUTI 111, AUTI 145, AUTI 121, AUTI 122, AUTI 131)

5546 AUTO TECHNOLOGY SERVICES II (year, 3 credits per semester)

Location: Paul L. Pfledderer Career & Tech Center, Crawfordsville

Students will take part in classroom and shop activities to learn basic automotive operation, service, and maintenance. The program is built upon The National Institute of Automotive Service Excellence (ASE) standards and requirements. While a part of the Automotive Technology program, students may have the opportunity to earn certification from National Automotive Technicians Education Foundation, Inc. (NATEF). Students will spend approximately 75% of their time in the shop area obtaining hands-on experience while working on school cars, student cars, faculty cars, and outside customer cars.

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (AUTI111 = 3 credits, AUTI121 = 3 credits, AUTI141 = 3 credits)

Certification Opportunity: Students completing 2 years earn partial credit toward ASE certification.

BUSINESS ADMINISTRATION TECHNICAL CERTIFICATE (2 years, 3 credits per semester)

Location: Ivy Tech, Crawfordsville

The Business Administration program at Ivy Tech puts students directly in real-life scenarios and actual business situations to ensure students gain valuable job skills through a quality education. The principles taught through Business Administration are threaded in all industries including non-profit business and education. Students will create marketing plans, budgets, build personal websites, case-studies and will develop community connections. The Business Administration program also partners with many local businesses to give students the experience and exposure in the business world that they will need to be successful.

DUAL CREDIT WILL BE EARNED THROUGH IVY TECH (19 credits in year 1 and 18 credits in year 2)

5496/5498 CONSTRUCTION TECHNOLOGY: HVAC I & II (1 or 2 years, 3 credits per semester)

Location: Crawfordsville High School

The Heating/Air Conditioning Program teaches the fundamentals of installing and maintaining residential and light commercial heating and air conditioning systems. The program provides job entry training to diagnose and repair such equipment and to lay out plans for efficient distributions systems. Nationally recognized EPA Refrigerant Certification is offered as part of the course. The major portion of the class is conducted in a laboratory environment using actual state-of-the-art equipment. West Central Indiana Career and Technical Education supplies the tools for each student to use while in the program. Students have the option to provide and use their own tools.

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (HVAC101 = 3 credits; HVAC103 = 3 credits) in year 1

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (HVAC107 = 3 credits) in year 2

Certification Opportunities: Refrigerant Certification in year 1 OSHA and new refrigerant in year 2

5802/5806 COSMETOLOGY I & II (Two years, 3 credits per semester)

Students can qualify for the Indiana State examination with the completion of this 1500-hour (two-year) course.

Theory and practice of facial massage, makeup, hair dressing, styling, and hair color are some of the areas covered in this class. Kit & Uniform purchase required (approx. \$550)

DUAL CREDIT IS AVAILABLE THROUGH VINCENNES UNIVERSITY (*COSM100 = 7 credits; COSM150 = 7 credits) in year 1

DUAL CREDIT IS AVAILABLE THROUGH VINCENNES UNIVERSITY (COSM200 = 7 credits; COSM250 = 9 credits) in year 2

Certification Opportunity: State of Indiana License after year 2

7193/7191/7188 PRINCIPLES OF CRIMINAL JUSTICE/LAW ENFORCEMENT & CULTURAL AWARENESS/COURTS & CORRECTIONS (FORMERLY KNOWN AS CRIMINAL JUSTICE I) (year, 3 credits per semester)

Location: Southmont High School

Principles of Criminal Justice covers the purposes, functions, and history of the three primary parts of the criminal justice system: law enforcement, courts, and corrections. This course further explores the interrelationships and responsibilities of these three primary elements of the criminal justice system. It will critically examine the history and nature of the major theoretical perspectives in criminology, and the theories found within those perspectives. Analyzes the research support for such theories and perspectives, and the connections between theory and

criminal justice system practice within all the major components of the criminal justice system. Demonstrates the application of specific theories to explain violent and non-violent criminal behavior on both the micro and macro levels of analysis. Includes the evolution of law enforcement at federal, state, and local levels. Emphasizes the study of American criminal justice problems and systems in historical and cultural perspectives, as well as discussing social and public policy factors affecting crime. This course also examines the American correctional system; the study of administration of local, state, and federal correctional agencies. The examination includes the history and development of correctional policies and practices, criminal sentencing, jails, prisons, alternative sentencing, prisoner rights, rehabilitation, and community corrections including probation and parole. Current philosophies of corrections and the debates surrounding the roles and effectiveness of criminal sentences, institutional procedures, technological developments, and special populations are discussed.

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (CRIM 101, CRIM 105, CRIM 110, CRIM 103, CRIM 120, CRIM 130)

5824 CRIMINAL JUSTICE II (by invitation only--1 year, 3 credits per semester)

Location: Southmont High School

This course will provide students with an understanding of Police Procedures, Corrections, and the Judicial System. The main portion of the class is built around the law enforcement aspect. This will include accident, criminal, crime scene, and traffic investigations. Students will learn through hands-on activities (80%) and lecture (20%).

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (CRIM111 =3 credits; CRIM113 = 3 credits)

5210 EMERGENCY MEDICAL SERVICES (1 year, 3 credits per semester)

Location: Southmont High School

Grade 12 Only

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

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (PARM102 = 7.5 credits)

5820/5826 FIRE & RESCUE I (1 year, 3 credits per semester) & II (by invitation only--1 year, 3 credits per semester)

Location: Southmont High School

The Fire and Rescue program is designed for students who want to learn emergency medical care and receive instruction/training in many aspects of fire science. The program requires diligence, teamwork, and acceptance the constructive criticism along with the ability to work in very hot, stressful, and loud conditions. Also, students will need to be able to work in constrictive conditions, wear an air mask for long periods of time, be able to lift 50 pounds, and be in generally good health. Students will receive classroom instruction/training to allow them to complete the curriculum for the American Heart Association (AHA) Healthcare CPR card. They will also have the opportunity to complete their First Responder and NFPA Firefighter I/II certifications. Depending on student ability levels and progress, students may pursue other certification programs and career preparation opportunities once the basic certifications have been completed.

Completion for the Fire and of certifications Rescue program requires a full school year commitment from each student. Also, students may be required to complete activities and/or clinical experiences during their own time outside of the classroom.

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (HSPS106 = 3 credits; HSPS121 = 3 credits; HSPS165 = 3 credits; HSPS167 = 3 credits) in year 1

Certifications: TBA

7168/5274/7166 PRINCIPLES OF HEALTHCARE/MEDICAL TERMINOLOGY/HEALTHCARE SPECIALIST: CNA (FORMERLY KNOWN AS HEALTH SCIENCE EDUCATION I) (1 year, 3 credits per semester)

Location: Franciscan Physician Network Orthopedics Office (Crawfordsville)

Principles of Healthcare content includes skills common to specific health career topics such as patient nursing care, dental care, animal care, medical laboratory, public health, and an introduction to healthcare systems. Lab experiences are organized and planned around the activities associated with the student's career objectives. Medical Terminology prepares students with language skills necessary for effective, independent use of health and medical reference materials. It includes the study of health and medical abbreviations, symbols, and Greek and Latin word part meanings, all taught within the context of body systems. This course builds skills in pronouncing, spelling, and defining new words encountered in verbal and written information in the healthcare industry. Students have the opportunity to acquire essential skills for accurate and logical communication, and interpretation of medical records. Emphasis is on forming a foundation of a medical vocabulary including; appropriate and accurate meaning, spelling, and pronunciation of medical terms, and abbreviations, signs, and symbols. The Healthcare Specialist: CNA prepares individuals desiring to work as nursing assistants with the knowledge, skills and attitudes essential for providing basic care in extended care facilities, hospitals and home health agencies under the direction of licensed nurses. The course will introduce students to the disease process and aspects of caring for a long-term care resident with dementia. Individuals who successfully complete this course are eligible to apply to sit for the Indiana State Department of Health (ISDH) certification exam for nursing assistants. This course meets the minimum standards set forth by the ISDH for Certified Nursing Assistant training and for health care workers in long-term care facilities.

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (HLHS 100, HLHS 101, HLHS 102, HLHS 107, HLHS 113)

5284 HEALTH SCIENCE EDUCATION II: NURSING (1 year, 3 credits per semester)

Location: Crawfordsville Clinical Site TBD

Grade 12 Only

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

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (HLHS107 = 5 credits, HLHS 113 = 3 credits)

5214 HEALTH SCIENCE EDUCATION II: PHARMACY (1 year, 1 credit per semester)

Location: Online

Health Science II: Pharmacy is a course designed to provide students with the opportunity to assume the role of a pharmacy technician. Students will learn how to record patient information, count medications, mix medications and ointments, package prescriptions, and process insurance claims. Students will take the national certification exam at the end of the course. This program is online with support from a teacher through North Montgomery High School. Students will be assigned a period of the day in their schedule to complete this course.

Certification available: CPhT

5782/5784 PRECISION MACHINING I & II (1 or 2 years, 3 credits per semester)

Location: Gene Haas Training & Education Center, Lebanon

Precision Machining prepares students for a highly skilled manufacturing occupation in which raw material is machined and transformed into specialized industrial tooling. Precision Machining is considered a high wage, high demand occupation and this program is the first step to prepare for gainful employment as an entry level machinist. Starting salaries for machinists average \$40,000 to \$50,000 and there are many job opportunities.

The curriculum for this program includes manufacturing processes: measurement, layout and inspection, machine tool processes and operations, metallurgy, shop math, blueprint reading, CNC programming and operations as well as laboratory activities in the operation of band saw, drill press, lathe, milling machine and surface grinder. The type and quality of equipment used in laboratory work is identical to that found in local industry.

Students can earn 21 college credits during this two year program. Three college courses in academic subjects (English, math, communication) are required for degree completion (9 college credits). With these 30 college credits, students will have completed the first year of an Associate Degree. Students may continue their education by pursuing an Associate of Science degree in Precision Machining and then a Bachelor of Science degree in Technology. Students may enter directly into the workforce and continue their education while they work.

Prerequisite: Program selection includes Accuplacer and aptitude testing as well as a personal interview.

DUAL CREDITS THROUGH VINCENNES AS INDICATED ABOVE

5986/5992 RADIO & TELEVISION I & II (1 or 2 years, 2 credits per semester)

Location: Western Boone Jr/Sr High School

See full description in Radio/TV on page 32

7110/7111/7101 PRINCIPLES OF WELDING TECHNOLOGY/SHIELDED METAL ARC WELDING/GAS WELDING PROCESSES (FORMERLY KNOWN AS WELDING TECHNOLOGY I) (year, 3 credits per semester)

Location: North Montgomery High School

Principles of Welding Technology includes classroom and laboratory experiences that develop a variety of skills in oxy-fuel cutting and basic welding. This course is designed for individuals who intend to make a career as a Welder, Technician, Designer, Researcher, or Engineer. Emphasis is placed on safety at all times. OSHA standards and guidelines endorsed by the American Welding Society (AWS) are used. Instructional activities emphasize properties of metals, safety issues, blueprint reading, electrical principles, welding symbols, and mechanical drawing through projects and exercises that teach students how to weld and be prepared for postsecondary and career success. Process theory will include basic electricity, power sources, electrode selection, and all aspects pertaining to equipment operation and maintenance. Laboratory welds will be performed in basic weld joints with a variety of electrodes in the flat, horizontal and vertical positions. Emphasis will be placed on developing the basic skills necessary to comply with AWS industry standards. This will include all settings, adjustments and maintenance needed to weld with a wire feed system. Instruction on both short-arc and spray-arc transfer methods will be covered. Tee, lap, and open groove joints will be done in all positions with solid, fluxcore, and aluminum wire. Test plates will be made for progress evaluation. Schools will have the option to introduce students to both MIG and TIG welding rather than focusing solely on MIG welding.

DUAL CREDIT IS AVAILABLE THROUGH VINCENNES UNIVERSITY (WELD 107, WELD 102, WELD 103)

5778 WELDING TECHNOLOGY II (year, 3 credits per semester)

This class is designed to develop skills in stick, mig, and tig welding. Students will also use plasma arc cutters and band/cutoff saws.

DUAL CREDIT IS AVAILABLE THROUGH VU (WELD 104, 105 & 106 = 9 credits) in year 2

7183/7179/7178 Principles of Computer Science and Informatics/Cybersecurity Fundamentals/Advanced Cybersecurity

Location: Ivy Tech Crawfordsville

Principles of Computers and Informatics introduces students to terminology, concepts, theory and fundamental skills used to implement information systems. Topics include the history and trends of computing, operating systems, database technology, security, cloud implementations and other concepts associated with applying the principles of good information management to the organization. Additionally, students will be introduced to algorithms, logic development and flowcharting as tools used to document computer logic through the use of basic scripting and simple programming code.

DUAL CREDIT IS AVAILABLE THROUGH IVY TECH (SDEV 120, INFM 109)

GRADUATION REQUIREMENTS

Beginning with the Class of 2023, students will be required to complete the Indiana Graduation Pathways program. This program, approved by the State Board of Education in 2017, was designed to ensure that every Indiana student graduates with 1) A broad awareness of and engagement with individual career interests and associated career options; 2) a strong foundation of academic and technical skills; and 3) demonstrable employability skills that lead directly to meaningful opportunities for postsecondary education, training, and gainful employment.

The Graduation Pathways require students to meet 3 requirements, with multiple options for each requirement.

- 1) High school diploma
 - a. Student must meet the state-defined credit and curricular requirements
- 2) Learn and Demonstrate Employability Skills
 - a. Project-Based Learning Experience
 - b. Service-Based Learning Experience
 - c. Work-Based Learning Experience
- 3) Postsecondary-Ready Competencies
 - a. Academic or Technical Honors Diploma
 - b. Minimum ACT Score
 - c. Minimum SAT Score
 - d. Minimum ASVAB Score
 - e. Industry-Recognized Credential or Certification
 - f. Industry-Recognized Apprenticeship
 - g. CTE Concentrator with minimum C average
 - h. Minimum C average in 3 AP/Dual Credit Courses
 - i. Locally Created Pathway

School counselors will work with students to help determine multiple pathways options.



Effective beginning with students who enter high school in 2012-13 school year (class of 2016).

Course and Credit Requirements	
English/ Language Arts	8 credits Including a balance of literature, composition and speech.
Mathematics	6 credits (in grades 9-12) 2 credits: Algebra I 2 credits: Geometry 2 credits: Algebra II <small>Also, students must take a math or quantitative reasoning course each year in high school.</small>
Science	6 credits 2 credits: Biology I 2 credits: Chemistry I or Physics I or Integrated Chemistry-Physics 2 credits: any Core 40 science course
Social Studies	6 credits 2 credits: U.S. History 1 credit: U.S. Government 1 credit: Economics 2 credits: World History/Civilization or Geography/History of the World
Directed Electives	5 credits World Languages Fine Arts Career and Technical Education
Physical Education	2 credits
Health and Wellness	1 credit (or 3 credits in FACS sequence)
Electives*	6 credits 1 Credit: Preparing for College and Careers
42 Total Credits Required	

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

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

CORE40 with Academic Honors (minimum 47 credits)

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

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

CORE40 with Technical Honors (minimum 47 credits)

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

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