

BROWNSBURG HIGH SCHOOL PROGRAM OF STUDIES



2023-2024

A Guide To Course Selection and
Program Planning



Course Descriptions Policies & Procedures

Cover design by Mason Pollett

TABLE OF CONTENTS

BROWNSBURG COMMUNITY SCHOOL CORPORATION MISSION STATEMENT 1

GRADUATION REQUIREMENTS 1

QUANTITATIVE REASONING COURSES 3

LATIN HONORS SYSTEM 4

GRADE WEIGHTED CLASSES 4

GRADUATION PATHWAYS 5

ADVANCED PLACEMENT (AP) 6

DUAL CREDIT COURSES AT BHS..... 7

DUAL CREDIT COURSE INFORMATION 8

COLLEGE AND CAREER READINESS..... 9

SCHEDULING POLICIES..... 10

 ONLINE HIGH SCHOOL COURSE CREDIT AS AN EXTENSION OF THE BHS CURRICULUM 10

 COLLEGE COURSES NOT TAKEN AT BROWNSBURG HIGH SCHOOL..... 10

 COURSE RECOMMENDATIONS 10

 ALTERNATIVE PE I & II CREDIT..... 10

 CHANGES IN PRE-ENROLLED CLASS SELECTIONS - DEADLINES..... 11

 DROP AND/OR ADD COURSES 11

 RETAKE POLICY 11

 FULLTIME ENROLLMENT.....12

 INCOMPLETE GRADES 12

 MIDYEAR GRADUATES 12

HARRIS ACADEMY12

CTE COURSES AT HARRIS ACADEMY.....13

SPECIAL EDUCATION SERVICES 13

INDIANA CERTIFICATE OF COMPLETION: COURSE OF STUDY 13

FRESHMAN COURSE OFFERINGS 15

SOPHOMORE COURSE OFFERINGS 16

JUNIOR COURSE OFFERINGS 17

SENIOR COURSE OFFERINGS..... 18

BUSINESS & MARKETING..... 19

CAREER AND TECHNICAL EDUCATION 24

ENGLISH 26

 ENGLISH ELECTIVES 30

FAMILY & CONSUMER SCIENCES.....	31
FINE ARTS: PERFORMING ARTS.....	34
INSTRUMENTAL MUSIC: ORCHESTRA.....	34
INSTRUMENTAL MUSIC: BAND	35
DANCE	37
CHORAL MUSIC	38
MUSIC ELECTIVES	40
FINE ARTS: THEATRE ARTS.....	41
FINE ARTS: VISUAL ARTS	43
MATHEMATICS	49
PHYSICAL EDUCATION AND HEALTH.....	54
PROJECT LEAD THE WAY	56
PROJECT LEAD THE WAY: BIOMEDICAL SCIENCE	56
PROJECT LEAD THE WAY: COMPUTER SCIENCE	58
PROJECT LEAD THE WAY: ENGINEERING	59
SCIENCE	61
SOCIAL STUDIES.....	67
WORLD LANGUAGES.....	73
AREA 31 CAREER PROGRAMS	77

Equal Opportunity

Brownsburg Community School Corporation does not unlawfully discriminate on the basis of age, race, religion, national origin, gender, or disability in admission or access to, or treatment or employment in its educational programs or activities. Inquires may be referred to: Title IX Coordinator, BCSC, 310 Stadium Drive, Brownsburg, IN 46112.

BCSC Mission Statement... Brownsburg Community School Corporation will provide, within a secure environment, an engaging, relevant educational program with academic opportunities for all students to pursue their maximum intellectual potential. Social and physical opportunities will also be provided to students to encourage them to become well-rounded individuals. Reaching maximum achievement will prepare students to live productively and responsibly in a technical, global society.

GRADUATION REQUIREMENTS

Core 40 Designation	Core 40 w/Academic Honors Designation	Core 40 w/Technical Honors Designation
43	47	47

ENGLISH	<p>8 credits</p> <ul style="list-style-type: none"> • English 9, or Pre-AP English 9 Hon 2 credits • English 10, or Pre-AP English 10 Hon 2 credits • English 11, or AP English Lang & Comp 2 credits • English 12, Ethnic Lit, AP English Lit & Comp, or Dual Credit Comp 2 credits
MATH	<p>6 credits (in grades 9-12)</p> <p>Students who earn high school credit for Algebra I, Geometry, or other higher level high school math courses in middle school must earn 6 additional credits in math courses above the level in which they have already earned credit. <u>Students must also take a math or quantitative reasoning course each year in high school.</u> Math credits earned prior to entering grade nine may count toward the credit requirements for a Designation, but six math credits must be earned while in high school.</p> <ul style="list-style-type: none"> • Algebra I 2 credits • Geometry 2 credits • Algebra II 2 credits
SCIENCE	<p>6 credits (in grades 9-12)</p> <ul style="list-style-type: none"> • Biology or Honors Biology 2 credits • Chemistry I, or Adv Sci Chemistry 101, or Physics I, or Pre-AP Physics I Hon, or Integrated Chemistry-Physics (ICP) 2 credits • Any additional Core 40 Science course 2 credits
SOCIAL STUDIES	<p>6 credits</p> <ul style="list-style-type: none"> • U.S. History, Dual Credit U.S. History, or AP U.S. History 2 credits • U.S. Government or AP U.S. Government & Politics 1 credit • Economics, or AP Microeconomics 1 credit • World History, or Geography/History of the World, or AP World History 2 credits
PHYSICAL ED	<p>2 credits</p> <ul style="list-style-type: none"> • PE I & II 2 credits
HEALTH	<p>1 credit</p> <ul style="list-style-type: none"> • Health Education 1 credit
FINE ARTS	<p>1 credit</p> <ul style="list-style-type: none"> • Visual, Performing, Publications, or Theatre Arts 1 credit • Intro to Fashion & Textiles, or Intro to Housing & Interior Design
PRACTICAL ARTS	<p>2 credits</p> <ul style="list-style-type: none"> • PCC: Speech (Required), and 2 credits • Business, FACS, PLTW, Career & Technical
DIRECTED ELECTIVES	<p>5 credits</p> <ul style="list-style-type: none"> • World Languages • Fine Arts • Career & Technical Education (Business, FACS, PLTW, Area 31) 5 credits
ELECTIVES	<p>6 credits 6 credits</p>

CORE40 With Academic Honors (AHD) *(min. 47 credits)*

For the **Core 40 with Academic Honors** designation, 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 Designation.
- Have a grade point average of a “B” or better.
- Complete one of the following:
 - A. Earn 4 credits in 2 or more AP courses and take corresponding AP exams
 - B. Earn 6 verifiable, transcribed college credits in dual credit courses from priority course list
 - C. Earn **two** of the following:
 1. A minimum of 3 verifiable, transcribed college credits from the priority course list,
 2. 2 credits in AP courses and corresponding AP exams,
 3. 2 credits in IB standard level courses and corresponding IB exams. (BHS does not offer IB)
 - D. Earn a composite score of 1250 or higher on the SAT and a minimum of 560 on math and 590 on the evidence based reading and writing section.
 - E. Earn an ACT composite score of 26 or higher and complete written section.
 - F. Earn 4 credits in IB courses and take corresponding IB exams. (BHS does not offer IB)

CORE40 With Technical Honors (THD) *(min. 47 credits)*

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

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

QUANTITATIVE REASONING COURSES

Students pursuing the Core 40, Academic Honors (AHD), or Technical Honors (THD) designations must take a mathematics course or a quantitative reasoning course each year they are enrolled in high school.

A quantitative reasoning course is a high school course that "advances a student's ability to apply mathematics in real world situations and contexts" and that "deepens a student's understanding of high school mathematics standards."

The chart below provides a list of courses that have been determined to meet the criteria for quantitative reasoning courses. Any mathematics course would also fulfill this requirement. A quantitative reasoning course does not fulfill a mathematics course required for graduation or academic honors.

Advanced Placement

AP Biology
AP Chemistry
AP Computer Science Principles
AP Microeconomics
AP Physics C

CTE - Business, Marketing, Information, and Entrepreneurship

Advanced Accounting
Computer Science I
Computer Science II
Computer Science III: Cybersecurity

CTE - Engineering and Technology

Civil Engineering and Architecture
Digital Electronics
Engineering Design and Development
Principles of Engineering

CTE - Trade Industry

Manufacturing II
Aviation Maintenance II
Construction Technology: Electrical II
Construction Technology: HVAC II
Construction Trades II
Precision Machining I
Precision Machining II

Science

Chemistry I
Chemistry II
Integrated Chemistry-Physics
Physics 1

Social Studies

Economics

LATIN HONORS SYSTEM

Students will be recognized at the end of their four years at Brownsburg High School under a Latin honors system. The Distinguished Graduate recognition program was determined by a committee of parent volunteers, teachers, and administrators, and approved by the BCSC Board of School Trustees.

Students will be recognized in the following manner:

1. Summa Cum Laude (greatest honors) for achieving a cumulative GPA of 4.20 or higher
2. Magna Cum Laude (great honors) for achieving a cumulative GPA of 4.00 to 4.1999
3. Cum Laude (with honors) for achieving a cumulative GPA of 3.80 to 3.999

All students (grades 9-12) earning a 3.66 cumulative GPA at the conclusion of the first semester of each academic year will earn an academic letter/bar.

GRADE WEIGHTED CLASSES

AP Course	Weight	Dual Credit Course	Weight
AP Calculus AB	1	Adv Cadet Teach CC/IT Education 101	1
AP Calculus BC	1	Adv English CC/IT English 111/215	1
AP Chemistry	1	Adv French CC/VU French 201/203	1
AP Art History	1	Adv German CC/BSU German 201-203	1
AP Biology	1	Adv Math CC/BSU M161	1
AP Computer Science A	1	Adv Math CC/VU Math 102	1
AP Computer Science Principles	1	Adv Math CC/VU Math 111	1
AP English Lang & Comp	1	Adv Science CC/VU Bio 111/112L	1
AP English Lit & Comp	1	Adv Spanish CC/VU Spanish 201/203	1
AP Environmental Science	1	Adv SS CC/VU History 139/140	1
AP French	1	Adv Science CC/IT Chemistry 101	1
AP German	1	Business Law & Ethics CC/IT BUSN 201	1
AP Human Geography	1	Civil Engineering & Architecture - Ivy Tech	1
AP Microeconomics	1	Digital Electronics - Ivy Tech	1
AP Music Theory	1	Digital Design 2, Fundamentals of Imaging	1
AP Physics C	1	Entrepreneurship & New Ventures CC/IT ENTR 101	1
AP Psychology	1	Intro to Engineering Design - Ivy Tech	1
AP Spanish	1	Principles of Business Management - Ivy Tech	1
AP Statistics	1	Principles of Engineering - Ivy Tech	1
AP Studio Art 3D Design	1	Principles of Marketing – Ivy Tech	1
AP Studio Art, 2D & Drawing	1		
AP US Government & Politics	1		
AP US History	1		
AP World History	1		

GRADUATION PATHWAYS

All students are required to satisfy the following Graduation Pathway Requirements by completing one of the associated pathway options presented under each of the three requirements.

Graduation Requirements	Graduation Pathway Options
<p>1) High School Designation</p>	<p>Meet the statutorily defined Designation credit and curricular requirements.</p>
<p>2) Learn and Demonstrate Employability Skills</p> <p>(Students must complete <i>at least one</i> of the following.)</p>	<p>Learn employability skills standards through locally developed programs. Employability skills are demonstrated by one the following:</p> <ul style="list-style-type: none"> • Project-Based Learning Experience; OR • Service-Based Learning Experience; OR • Work-Based Learning Experience.
<p>3) Postsecondary-Ready Competencies</p> <p>(Students must complete <i>at least one</i> of the following.)</p>	<ul style="list-style-type: none"> • Honors Designation: Fulfill all requirements of either the Academic or Technical Honors Designation; OR • ACT: College-ready benchmarks; OR • SAT: College-ready benchmarks; OR • ASVAB: Earn at least a minimum AFQT score to qualify for placement into one of the branches of the US military; OR • State- and Industry-recognized Credential or Certification; OR • Federally-recognized Apprenticeship; OR • Career-Technical Education Concentrator: Must earn a C average in at least two non-duplicative advanced courses (courses beyond an introductory course) within a particular program or program of study; OR • AP/IB/Dual Credit/Cambridge International courses or CLEP Exams: Must earn a C average or higher in at least three courses; OR • Locally created pathway that meets the framework from and earns the approval of the State Board of Education.

ADVANCED PLACEMENT (AP)

The Advanced Placement Program is sponsored by the College Board, a non-profit membership organization. The Advanced Placement Program (AP) gives students an opportunity to experience college-level courses and exams while they are still in high school. The AP tests are scored on a scale of one to five. Through this program, students may earn college credit, accelerated placement, or both for college. Because Advanced Placement courses are equivalent to a college level course, students who take AP courses should expect to spend a considerable amount of time outside the classroom devoted to this rigorous coursework. As a rule, expect to spend one hour of work per day outside the class per period.

Indiana PL 91 requires all Indiana public colleges and universities (including all two and four-year institutions and accompanying satellites) to award college credits for Indiana secondary school students that earn a score of 3 or higher on College Board's Advanced Placement (AP) examination. Indiana public colleges and universities may require a score higher than 3 to award credits for a course that is a requirement for a student's major. If a university chooses to do so, it must still award a student elective credits that count toward his/her overall degree requirements to graduate from college. Families may visit <http://www.transferin.net/ap.aspx> for the most current transfer information.

Advanced Placement courses are grade weighted. **To receive the grade weight, students must receive a grade of C- or higher and take the AP examination in May.** Cumulative class ranks and GPA's will be retroactively recalculated for students who do not complete the scheduled AP exams. Book rental fees are usually higher for College Board AP courses because students must purchase their own college textbook.

Brownsburg High School is committed to preparing students for AP through Pre-AP classes. Students must complete Pre-AP prerequisite courses prior to enrollment in AP. Transfer students and those wishing to enroll in AP without Pre-AP prerequisites must demonstrate readiness through assessment or other means. In such instances, placement in AP is not guaranteed. The student's best assurance for placement in AP is through success in Pre-AP classes.

At present, the Indiana Department of Education pays for Science, Math and English exams for students in grades 9-12. Therefore, there is no exam fee to BHS students in these grade levels for these exams. All other tests require a fee; approximately \$101 per test. Students receiving free or reduced meal benefits qualify for fee reductions for AP examinations. For a complete course description and other information regarding AP courses go to:

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

BHS AP Course Offerings.... Prerequisite policies apply for all AP courses, please plan accordingly. Please contact the student's guidance counselor with specific questions concerning AP courses and content.

AP Art History

AP Biology

AP Calculus AB

AP Calculus BC

AP Chemistry

AP Computer Science A

AP Computer Science Prin.

AP English Language

AP English Literature

AP Environmental Science

AP French Language

AP German Language

AP US Government & Politics

AP Human Geography

AP Microeconomics

AP Music Theory

AP Physics C

AP Psychology

AP Spanish Language

AP Statistics

AP Studio Art (2D Design)

AP Studio Art (3D Design)

AP Studio Art (Drawing)

AP US History

AP World History

DUAL CREDIT COURSES AT BHS



Dual credit courses allow students to earn credit toward a high school Designation as well as a college degree. Though these courses may seem expensive for a high school class, they offer significant savings to many families when compared to tuition at post-secondary institutions. In addition to their financial advantages, dual credit courses prepare students for the rigor of college work, and help many students qualify for an Academic Honors Designation. BHS offers courses from Vincennes University (VU), Ball State University (BSU), Indiana University (IU), Indiana University Purdue University Indianapolis (IUPUI), and Ivy Tech (IT).

- Some courses have certain criteria that must be met, such as minimum test scores on the PSAT, SAT, or ACT test. Some courses require that university-specific tests must be passed to qualify for dual credit. Students must meet entry requirements and take the course for college credit to receive any grade weighting.
- Some courses may transfer as college hours, but do not transfer as the identical course at another university. This is known as “undistributed credit.” However, in most cases, a class will transfer into the accepting university. See <http://www.transferin.net> for additional information
- Textbooks for dual credit courses are dictated by the universities and are added to book rental.
- Cost per credit hour is set by the university and subject to change. Families may utilize 529 savings plans for dual credit related expenses.

BHS DUAL CREDIT COURSE INFORMATION

University	University Course	High School	AHD Priority List	THD Priority List	Core Transfer Library	Credit Hours
		Companion Course				
		If Available				
Ivy Tech	ENGL 111 & 205, English Composition	English 11 or 12	Yes	Yes	Yes	6/yr.
Vincennes	MATH 111, Finite Math	Finite Math	Yes	Yes	Yes	3/sem.
Vincennes	Math 102, College Algebra	College Algebra	Yes	Yes	Yes	3/sem.
Vincennes	HIST 139 & 140, American History I & II	American History	Yes	Yes	Yes	6/yr.
Ball State	MATH M161, Applied (Short) Calculus I	Applied Calculus	Yes	Yes	Yes	3/sem.
Vincennes	BIOL 111-112/111L-112L, Ant/Phys.	Anatomy and Physiology	Yes	Yes	No	8/yr.
IU	ECON E201, Intro to Microeconomics	AP Microeconomics	Yes	Yes	Yes	3/sem.
Ivy Tech	MKTG 101, Principles of Marketing	Marketing	Yes	Yes	No	3/yr.
Ivy Tech	BUSN 101, Principles of Business Management	Advanced Business Management	Yes	Yes	Yes	3/yr.
Ivy Tech	DESN 101, Intro to Design Technology	Introduction to Engineering	Yes	Yes	No	3/yr.
		Design (IED)				
Ivy Tech	DESN 104, Mechanical Graphics	Principles of Engineering (POE)	Yes	Yes	No	3/yr.
Ivy Tech	EECT 112, Digital Fundamentals	Digital Electronics (DE)	Yes	Yes	No	3/yr.
Ivy Tech	DESN 105, Architectural Design I	Civil Engineering & Architecture (CEA)	Yes	Yes	No	3/yr.
Vincennes	SPAN 201/203	Spanish Level IV (grade 11-12)	Yes	Yes	Yes	8/yr.
Ball State	GERM 201/203	German Level IV (grade 11-12)	Yes	Yes	Yes	8/yr.
Vincennes	FREN 201/203	French IV (grade 11-12)	Yes	Yes	Yes	8/yr.
Vincennes	PSYC 142, General Psychology	AP Psychology	Yes	Yes	Yes	3/sem.
Ivy Tech	EDUC 101 Introduction to Teaching	Cadet Teaching	Yes	Yes	No	3/yr.
Ivy Tech	ENTR 101, Entrepreneur and the Enterprise	Entrepreneurship and New Ventures	Yes	Yes	No	3/yr.
Ivy Tech	BUSN 201, Business Law	Business Law & Ethics	Yes	Yes	No	3/yr.
Ivy Tech	VISC 102, Fundamental of Imaging	Digital Design 2	Yes	Yes	No	3/yr.

COLLEGE AND CAREER READINESS

Due to the wide variations in college entrance requirements, students are urged to check with the admission office of the chosen college and visit the individual college websites when planning their high school programs. College catalogs are available online at most college websites. Most colleges require at least 28 of the credits earned for high school graduation to be devoted to academic courses. Be aware that college entrance requirements do change. The 11th grade and 12th grade years are when students should take the SAT and ACT college readiness tests. Additionally, juniors have the opportunity to earn scholarship monies through the National Merit program by taking the PSAT Examination. For more information about the SAT and ACT programs, please visit <http://www.collegeboard.com/> and <http://www.act.org/aap/index.html>.

To prepare for college, students should do the following:

- Take recommended college preparatory courses. The preferred curriculum for the best preparation for college is the Academic Honors Designation. Indiana Core 40 is the minimum standard to be followed.
- Maintain the best possible grade point average (GPA).
- Take the PSAT 9 test in the fall of the freshman year and take the PSAT test in the fall of the sophomore year.
- All juniors will retake the PSAT in the fall. Juniors will then take the SAT in the spring. Have SAT scores sent to Brownsburg High School (CEEB school code is 150335) as well as to colleges being considered. Students could also choose to complete an ACT exam in the spring.
- Apply to colleges early during the fall of the senior year. Some colleges and some highly competitive programs require early application.
- Complete the FAFSA form after October 1 and submit by April 15, to be considered for state and federal financial aid. Visit www.fafsa.ed.gov for more information on the FAFSA.

NAVIANCE - Naviance Family Connection is a web-based program that promotes college and workplace readiness for high school students. All Brownsburg High School students and their parents have access to Naviance Family Connection. Incoming ninth grade students will receive their registration information during freshman orientation. Family Connection applications include:

- **College Planner** – Students can research colleges, enrichment programs, and scholarships. They can access school forms and can request transcripts and school profiles to be sent electronically to more than 1,000 colleges.
- **Career Planner** – Students can learn more about themselves, research careers, and understand the academic preparation required to ensure workplace readiness.
- **Test Preparation**—Students can utilize the Naviance test preparation software in anticipation of taking the SAT and/or ACT exams.

GRADE 9 AND 10 COLLEGE AND CAREER PLANNING AT BROWNSBURG HIGH SCHOOL

It may be difficult for 9th and 10th grade students to choose a specific Career Major Pathway; however, the kinds of course choices and the success at the 9th and 10th grade level begins to form the career pathway choice for the eleventh grade. For this reason, the high school curriculum becomes a 9th and 10th grade formative/evaluative program, and the 11th and 12th grade become a career-focused preparatory program. All 9th and 10th grade students will schedule English, mathematics, social studies, science, physical education (9), PCC: speech (10) and health (10). Electives chosen during these foundation years should parallel the career cluster and designation level desired. College readiness testing for this formative stage includes the PSAT test which is taken in the fall of the sophomore year.

GRADE 11 AND 12 COLLEGE AND CAREER PLANNING AT BROWNSBURG HIGH SCHOOL

The decision for the proper program concentration requires team planning for the 11th & 12th grade years. This should involve the student, parent, and high school personnel. Post high school educational experiences in today's technical world will be mandatory for all students regardless of program selection. Individual preparation, ability, interest, and motivation will determine success during one's entire lifetime. It

must be the goal of the educational team (student-parent-school) to correctly place each student in the courses and sequence level of their chosen Career Pathway.

SCHEDULING POLICIES

ONLINE HIGH SCHOOL COURSE CREDIT AS AN EXTENSION OF THE BHS CURRICULUM

A student desiring to earn high school credit through online coursework should give this choice careful thought and discuss this option with the high school counselor. Prior approval is required for the acceptance of online credit toward graduation requirements. Online courses that are requested to replace courses that are teacher-led at Brownsburg High School will not be approved unless an academic necessity is warranted. In these instances, students will be required to complete a 4-year academic course plan documenting the need for online course flexibility.

A maximum of four (4) credits through online or other correspondence courses may be applied toward graduation. It is recommended that students enroll in no more than two courses in this manner at a given time. Likewise, it is recommended that the coursework be completed during the high school semester timeline. Cost of online courses is the responsibility of the family. Only courses that are offered by accredited institutions approved by the State of Indiana will be approved.

COLLEGE COURSES NOT TAKEN AT BROWNSBURG HIGH SCHOOL

A student may enroll in on-campus or online courses offered by an accredited college or university. All grades will add to the student transcript in a manner indicating that they were earned through an eligible post-secondary institution.

In order for credits earned directly through a college or university to be applied toward high school graduation requirements, approval is required by the guidance counselor prior to enrollment in the course. If approved, grades earned from such courses may be factored into the high school cumulative GPA, but will not factor into class rank - except in rare circumstances where a student has exhausted an academic department's curriculum. A grade weight will only be granted in courses for which there is a Brownsburg High School equivalent that is also weighted.

COURSE RECOMMENDATIONS

At Brownsburg High School, student course placement is based upon a variety of factors including student performance in preceding classes, standardized test scores, potential, and teacher recommendation. Teacher recommendation is a required prerequisite for many courses. Recommendations by teachers are greatly valued as they have personal knowledge of their students and of the curriculum in their departments.

ALTERNATIVE PE I & II CREDIT

The Indiana State Board of Education allows local high schools flexibility in determining the manner in which Physical Education proficiencies may be met. In order to maximize educational scheduling opportunities for students, Brownsburg High School has adopted a policy through which Physical Education I & II credit may be earned through alternative means. Credits will not be granted for any previous school year.

A **complete** season of the following student activities has been approved for Alternative PE Credit:

- Any BHS sponsored IHSAA sanctioned sport and/or BHS Cheerleading
- Marching Band, Color Guard, or Dance Choreography
- Starlight Voices, Bella Voce, and Dog Pound Competitive Show Choir
- Students may earn one (1) credit in PE I per school year for one (1) activity listed above. A student may repeat the same activity during the sophomore year to receive one (1) credit in PE II to fulfill the PE requirements.
- A student may complete two (2) different activities from the list above in the same year to receive one (1) credit in PE I and one (1) credit in PE II, thus fulfilling the PE requirements for graduation.
- **Both PE I and PE II credits must be earned by the end of the sophomore year.**
- Retroactive credits will not be awarded.

- Student activity in any event not listed above is not eligible for the Alternative PE Credit.
- A complete season is defined as: **first practice to final event**. The student must remain on the active roster for the entire season or the duration of the activity. The student must attend all required practices, rehearsals, or competitions as dictated by the activity's coach or director.
- The student will participate regularly in physical activity, demonstrated by participation in over 90% of group activities (injury free).
- Injuries or disciplinary or academic suspensions that result in withdrawal or dismissal from the team or activity will result in forfeiture of Alternative PE credit as determined by the coach or director.
- Students with injuries or those who are removed or withdrawn from their activity may not be placed into a regular PE course after the second week of a semester.
- Alternative PE credit and Athletic Development PE credit may not be earned in the same semester.
- A grade of A will be granted for the Alternative PE credit to all students who meet the requirements listed above.

Additional Student Requirements & Information:

- Students must submit the "Brownsburg High School Application for Alternative PE I or PE II Credit" prior to spring break. Forms will be distributed during scheduling sessions or may be downloaded from the BHS Guidance Office website.
- The designated BHS counselor will maintain forms and will verify team or activity rosters with the athletic office or activity directors. PE credits will be entered into PowerSchool once seasons have been completed and verified.
- Students that do not participate in the activity indicated on their application should notify their counselor prior to the start of the semester in which the activity takes place so that they may be enrolled in a regular PE course.
- Alternative PE credits may not count as an "enrolled" course toward IHSAA athletic eligibility. BHS requires that students enroll in a minimum of 6 credit generating courses during each academic semester.

CHANGES IN PRE-ENROLLED CLASS SELECTIONS - DEADLINES

The course offerings at Brownsburg High School are based upon student requests during pre-enrollment. Therefore, it is necessary for students to determine their class choices with a commitment to complete those classes. **All requests for schedule changes must be made by May 1st. Requests for changes between March 15 and May 1 will be honored if space is still available in the course.**

The guidance staff may need to use alternate classes if (1) an original class choice is not offered due to insufficient enrollment or (2) the student has selected two classes which conflict on the student's schedule. Once schedules are built for the entire school, counselors may change a student's schedule to obtain balanced class sizes.

DROP AND/OR ADD COURSES

Schedule changes are discouraged and such requests will be given close scrutiny. All changes must be approved by the grade level team (assistant principal or counselor). There will be no schedule changes to accommodate a teacher preference. Students may not drop a class and then request to be a teacher assistant. Dropping a course may endanger athletic eligibility. Students cannot schedule more than one study hall during any semester.

RETAKE POLICY

A student must demonstrate proficiency in each course required for graduation. Students may repeat a course where they have received a "D+", "D", or "D-", "F" in order to earn a better grade. The following rules will apply:

1. When repeating a course either failed "F" or already passed with a "D+", "D", or "D-", the second grade will replace the first grade on the transcript. The first grade will appear as an "R" for no credit, and will not factor into the GPA. (Exception: In the event a student fails a previously passed course,

both the “F” for the second grade and the first passing grade will appear on the transcript and both will count toward cumulative GPA).

2. When repeating a course, a student may go from an honors level course to a regular level (provided academic standards are the same for the two courses). For example, a student who earns a D+ in Pre AP English 10 may opt to take English 10 for a higher grade.

FULL TIME ENROLLMENT

Students must maintain at least six (6) credit generating classes per semester in order to maintain a timely progress toward high school graduation. The Superintendent or School Board will not grant approval per IC 20-33-2-12 for students to enroll in less than six (6) credit generating courses unless an I.E.P. or 504 plan is in effect. Students must attend a minimum of six semesters to receive a Designation.

INCOMPLETE GRADES

An Incomplete (I) may be given under certain situations in lieu of a grade when a student does not complete the requirements of the course. The student must make arrangements with the teacher to fulfill those requirements. Teachers must submit final grades for each student upon completion of the course or indicate to the principal what arrangements have been made to remove the incomplete. Accommodations for individual situations shall be made by the building principal as the need arises. Any work not made up will be recorded as failing. Exceptions to this policy must be approved by the principal.

MIDYEAR GRADUATES

Midyear graduates are to comply with the following policies:

- May not enroll in career technical classes at Ben Davis during the seventh semester.
- Must enroll in one (1) semester classes only during the seventh semester.
- Must be approved for midyear graduation at pre-enrollment time in the spring.
- Must have passed the graduation qualifying tests if applicable.
- Must file a completed request form, properly signed by the parent, student, and Principal or designee by August 1st, prior to the beginning of the senior year. Students who do not meet this deadline will not have the eighth semester of attendance waived.

HARRIS ACADEMY

Harris Academy provides a performance-based, non-traditional education environment to entice and enable individuals in grades 10-12 to complete their high school education. The non-traditional program is designed with maximum flexibility to meet the diverse needs of enrolled students. Each applicant must be committed to earning a high school Designation. Consent to enroll in the alternative high school is given by the High School Principal based on prescribed criteria. Harris Academy offers courses that are teacher directed and courses through Edmentum, an online, self-paced curriculum, correlating with the content standards identified by the State of Indiana.

Teacher led courses in English, Math, Science, and Social Studies are available on a quarterly basis, and are dependent on student enrollment.

CTE COURSES AT HARRIS ACADEMY

Career and Technical Education (CTE) Programs prepare students for careers and/or further study at a post-secondary institution. BHS offers CTE courses at Harris Academy in the following disciplines:

- Networking and Cybersecurity
- Criminal Justice
- Pre-Nursing/CNA
- Clinical Medical Assistance

Local employers provide curriculum direction and employment, including potential work-based learning experiences. Some programs offer state approved industry certifications that can be used to meet technical honors diploma requirements.

SPECIAL EDUCATION SERVICES

The Special Education Department at Brownsburg High School strives to promote consistency, communication and individualized levels of support for all students with disabilities. A TEAM concept is offered where students with disabilities maintain the same Teacher of Record, Counselor and grade level Principal throughout their time here, maximizing our collaboration and accountability. Brownsburg High School utilizes various differentiated instructional strategies to assist students in all educational settings. Special Education teachers are available to deliver specially designed instruction, make accommodations to classroom materials, and/or provide in-class support as needed on an individualized basis.

Eligibility for special education services is determined by an evaluation team. Students may be determined eligible for special education programs in one of several categories as identified by Article 7. Once eligibility is determined, a Teacher of Record (TOR) is assigned and an Individualized Education Program (IEP) is developed by a team of people, the Case Conference Committee, which includes the parent and student.

The IEP specifies annual goals and short-term objectives for the student, along with the special education services and/or classes needed to work toward those goals. The IEP is reviewed annually to incorporate current data on the student's progress and to develop an updated IEP, if appropriate, for the following year. Supports are provided across the continuum, including consult only, Co-teach classes (general education teacher and special education teacher), Inclusion classes (general education teacher and special education para-professional), self-contained (special education teacher and para-professional), Functional skills and Life skills. Our Transition coordinator educates students/families on opportunities for our students outside the school setting. When appropriate, students begin expanding their vocational skills through working at our school-based food/clothing pantry and/or community businesses that partner with Brownsburg schools to provide students with an internship experience. A resource room is also made available to students where staff can assist in providing accommodations. Courses taught or supported by the Special Education Department align directly with a student's IEP.

INDIANA CERTIFICATE OF COMPLETION: COURSE OF STUDY

The Course of Study for the Certificate of Completion (found below) is a framework for aligning curriculum to grade level standards while meeting the individual goals and transition needs stated in the student's Individual Education Plan (IEP).

Minimum total 40 credits/applied units: It is expected that these requirements are met through enrollment in a combination of general education courses for credit, modified general education courses in which non-credit applied units are earned and special education courses in which non-credit applied units are earned.

English/Language Arts	8 credits/applied units
	Including a balance of literature, composition, vocabulary, speech/communication
Mathematics	4 credits/applied units
	Including a balance of number sense, expressions, computation, data analysis, statistics, probability, equations and inequalities and personal finance. Student must take a math or applied math course each year in high school.
Science	4 credits/applied units
	Including a balance of physical, earth/nature, life, engineering and technology
Social Studies	4 credits/applied units
	Including a balance of history, civics and government, geography, economics
Physical Education	2 credits/applied units
Health & Wellness	1 credit/applied unit
Employability	10 credits/applied units
	Job exploration, work- or project-based learning experiences, employability skills (mindsets, self-management, learning strategies, social, workplace), portfolio creation, introduction to post-secondary options
	Investigation into opportunities for enrollment in postsecondary programs, work place readiness training to develop employability and independent living skills and instruction in self-advocacy
Electives	7 credits/applied units

Certificate of Completion Transition Portfolio

Students earning a certificate of completion fulfill at least one of the following (aligned with transition goals):

- 1. Career Credential:** Complete an industry-recognized certification, one-year certificate or state-approved alternative
- 2. Career Experience:** Complete project- or work-based learning experience or part time employment
- 3. Work Ethic Certificate:** Earn a Work Ethic Certificate (criteria to be locally determined)
- 4. Other Work Related Activities:** As determined by the case conference committee

Assumptions:

- 1) High Expectations for all students is a shared responsibility.
- 2) General Education courses are accessed whenever appropriate to fulfill the Certificate of Completion course of study.
- 3) Students' IEP goals are aligned with grade level standards/content connectors that drive curriculum and instruction.
- 4) Communication skills, reading skills, and problem-solving skills are integrated into all courses.
- 5) Courses can be repeated with new goals if appropriate; more than four years may be needed for completion.
- 6) All courses are driven by the Transition IEP and individual goals of each student.

FRESHMAN COURSE OFFERINGS

REQUIRED COURSES:

- Appropriate Math Course by Recommendation
- English 9 or Pre-AP English 9 Honors
- Biology, Biology Honors, Chemistry, or Adv Sci: Chemistry 101
- Completion of 2 credits of Social Studies at the sophomore year
- Physical Education

Business, Marketing & Information

Technology Education

689-690 Principles of Business Management-NLPS
661-6611 Accounting Fundamentals

Career and Technical Education

9675-9676 TV & Video Production I
5994-5995 Principles of Broadcasting

English

103-104 English 9
109-110 Pre-AP English 9 Honors
171-172 Student Publications - Yearbook

Family & Consumer Sciences

709 *Principles of Culinary and Hospitality
713 *Principles of Interior Design
703 *Principles of Fashion and Textiles

Fine Arts: Music

7605-7606 Freshman Orchestra
777-778 Freshman Concert Band
781-782 Intermediate Concert Band – Concert
783-784 Dance Performance – Color Guard
785-786 Beginning Chorus Choralaires
7935 *Music Appr: School of Rock
7963-7964 Beginning Chorus Dog Pound Choir

Fine Arts: Theater

173 *Theatre Arts 1
184 *Technical Theatre

Fine Arts: Visual Arts

601 *Intro to 2-Dimensional Art
616 *Intro to 3-Dimensional Art
602 *Ceramics 1
605 *Drawing 1
607 *Sculpture 1
619 *Digital Design 1
633 *Printmaking

Mathematics

209-210 Algebra 1
211-212 Geometry
213-214 Geometry, Honors
215-216 Algebra 2
2171-2172 Algebra 2 Honors
239-240 #Statistics, AP

Physical Education/Health

8011-8101 Physical Education 1 & 2
8013-8014 Physical Education, Athletic Development
8041-8042 *Adv Physical Fitness

PLTW: Biomedical Sciences

5931-5932 Principles of Biomedical Sciences

PLTW: Computer Science

5581-5582 #Computer Science Principles, AP
7203 Introduction to Computer Science

PLTW: Engineering

5831-5832 #Intro to Engineering Design

Science

307-308 Biology 1
3077-3088 Biology 1, Honors
311-312 Chemistry
3453-3454 #Adv Sci CC/IT Chem 101**

Social Studies

401-402 World History & Civilization
425-426 Geography & History of the World
427-428 #World History, AP

World Languages

501-502 French 1
503-504 French 2
511-512 German 1
513-514 German 2
531-532 Spanish 1
533-534 Spanish 2

Miscellaneous

897 Study Hall

*One Semester Course
#Weighted Course
**Dual Credit Course

SOPHOMORE COURSE OFFERINGS

REQUIRED COURSES:

- English 10 or Pre-AP English 10 Honors
- PCC: Speech
- Health & Wellness
- Appropriate sequential Math course
- Appropriate Science course
- Completion of 2 credits of Social Studies at the sophomore year

Business, Marketing & Information

Technology Education

675-676 #Marketing/CC Ivy Tech**
 689-690 Prin of Business Mngt-NLPS
 661-6611 Accounting Fundamentals
 662-6622 Advanced Accounting
 6661-6671 #Business Law & Ethics**
 6755-6766 Marketing Fundamentals-NLPS

Career and Technical Education

9675-9676 TV & Video Production I
 5986-5987 TV & Video Production II
 9679-9680 TV & Video Production III
 5992-5993 Live TV & Video Production
 5994-5995 Principles of Broadcasting
 5996-5997 A/V Production Essentials

English

125-126 English 10
 121-122 Pre-AP English 10 Honors
 169-170 Student Publications Newspaper
 171-172 Student Publications Yearbook
 7012 *PCC:Speech

Family & Consumer Sciences

709 *Prin of Culinary and Hospitality
 710 *Nutrition
 712 *Adv Child Development
 713 *Principles of Interior Design
 703 *Principles of Fashion and Textiles
 704 *Textiles, Apparel, & Merchandising
 7005 *Advanced Textiles
 7101 *Culinary Arts
 7125 *Interior Design Fundamentals

Fine Arts: Performing Arts

765 *Piano & Electronic Keyboard
 761-762 Intermediate Orchestra
 7771-7772 Symphony Orchestra
 776-7763 Instrumental Ensemble Percussion
 779-780 Advanced Concert Band Wind
 781-782 Intermediate Concert Band Concert
 7761-7762 Intermediate Concert Band Symp
 7801-7802 Advanced Concert Band Wind
 783-784 Dance Performance – Color Guard
 785-786 Beginning Chorus Choralaires
 7967-7968 Intermediate Chorus-Bella Voce
 7963-7964 Beginning Chorus Dog Pound Choir
 797-798 Concert Choir
 787-788 The Blend
 789-790 Bel Canto Voices
 773-774 Madrigals
 7773-7774 Jazz Ensemble
 7935 *Music Appr: School of Rock
 7961-7962 Starlight Voices
 793-794 Music Theory & Composition

Fine Arts: Theatre

173 *Theatre Arts 1
 183 *Theatre Arts 2
 184 *Technical Theatre
 188 *Adv Technical Theatre

Fine Arts: Visual Arts

601 *Intro to 2-Dimensional Art
 616 *Intro to 3-Dimensional Art
 602 *Ceramics 1
 609 *Ceramics 2
 605 *Drawing 1
 610 *Drawing 2
 606 *Painting 1
 611 *Painting 2
 607 *Sculpture 1
 617 *Sculpture 2
 619 *Digital Design 1
 625 *#Digital Design 2**
 626 *Photography 1
 628 *Photography 2
 621-622 #Art History, AP
 633 *Printmaking

Mathematics

209-210 Algebra 1
 211-212 Geometry
 213-214 Geometry, Honors
 215-216 Algebra 2
 2171-2172 Algebra 2 Honors
 251-252 Pre-Calculus/Trigonometry
 2521-2522 Pre-Calculus/Trigonometry
 Honors (AB)
 2543-2544 Pre-Calculus/Trigonometry
 Honors (BC)
 239-240 #Statistics, AP

Physical Education/Health

803 *Health & Wellness
 8011-8101 *Physical Education 1 & 2
 8041-8042 *Adv Physical Fitness
 8061-8062 *Adv Athletic Development
 8091-8092 *Adv Athletic Development
 8073-8074 *Team Sports
 816 *Lifeguarding
 8071-8072 *Personal Fitness

PLTW: Biomedical Sciences

5931-5932 Principles of Biomedical Sciences
 5721-5722 Human Body Systems

PLTW: Computer Science

7203 *Introduction to Computer Science
 5581-5582 #Computer Science Principles, AP
 5583-5584 #Computer Science A, AP
 5585-5586 Cybersecurity

PLTW: Engineering

5831-5832 #Intro to Engineering Design**
 5861-5862 #Principles of Engineering**

Science

307-308 Biology
 311-312 Chemistry
 3453-3454 #Adv Sci CC/IT Chem 101**
 353-354 Integrated Chemistry-Physics
 315-316 Physics 1
 3481-3482 Pre-AP Physics 1 Honors
 339-340 Anatomy & Physiology
 309-310 Advanced Science: Zoology
 321-322 #Chemistry, AP
 349-350 #Environmental Science, AP

Social Studies

401-402 World History & Civilization
 425-426 Geography & History of the World
 427-428 #World History, AP
 441-442 #Human Geography, AP
 4063-4064 #US History, AP

World Languages

501-502 French 1
 503-504 French 2
 505-506 French 3
 511-512 German 1
 513-514 German 2
 515-516 German 3
 531-532 Spanish 1
 533-534 Spanish 2
 535-536 Spanish 3

Miscellaneous

897 Study Hall

*One Semester Course
 #Weighted Course
 **Dual Credit Course

JUNIOR COURSE OFFERINGS

REQUIRED COURSES:

- English 11 or AP English Language & Comp
- United States History, Dual Credit US History, or AP United States History
- Appropriate sequential Math course
- Appropriate Science course

Business, Marketing & Information

Technology Education

675-676 #Marketing/CC Ivy Tech**
 6577-6578 #Advanced Business Mgmt**
 661-6611 Accounting Fundamentals
 662-6622 Advanced Accounting
 6661-6671 #Business Law & Ethics**
 6913-6914 #Entrepreneurship & New Ventures**
 6755-6766 Marketing Fundamentals-NLPS
 6770-6771 Digital Marketing

Career and Technical Education

9675-9676 TV & Video Production I
 5986-5987 TV & Video Production II
 9679-9680 TV & Video Production III
 5992-5993 Live TV & Video Production
 5994-5995 Principles of Broadcasting
 5996-5997 A/V Production Essentials

English

147-148 English 11
 155-156 #English Lang & Comp, AP
 169-170 Student Publications Newspaper
 171-172 Student Publications Yearbook
 1661 Film Literature

Family & Consumer Sciences

709 *Principles of Culinary and Hospitality
 710 *Nutrition
 712 *Adv Child Development
 713 *Principles of Interior Design
 703 *Principles of Fashion and Textiles
 704 *Textiles, Apparel, & Merchandising
 7005 *Advanced Textiles
 7101 *Culinary Arts
 7125 *Interior Design Fundamentals

Fine Arts: Music

765 *Piano & Electronic Keyboard
 761-762 Intermediate Orchestra
 7607-7608 Symphony Orchestra
 776-7763 Instrumental Ensemble Percussion
 7801-7802 Advanced Concert Band Wind
 781-782 Intermediate Concert Band Concert
 7761-7762 Intermediate Concert Band Symp
 783-784 Dance Performance – Color Guard
 785-786 Beginning Chorus Chorales
 7967-7968 Intermediate Chorus-Bella Voce
 7963-7964 Beginning Chorus Dog Pound Choir
 797-798 Concert Choir
 787-788 The Blend
 789-790 Bel Canto Voices
 7741-7742 Madrigals
 7773-7774 Jazz Ensemble
 7935 *Music Appr: School of Rock
 7961-7962 Starlight Voices
 793-794 Music Theory & Composition
 7931-7932 #Music Theory, AP

Fine Arts: Theater

173 *Theatre Arts 1
 183 *Theatre Arts 2
 184 *Technical Theatre
 188 *Adv Technical Theatre

Fine Arts: Visual Arts

601 *Intro to 2-Dimensional Art
 616 *Intro to 3-Dimensional Art
 602 *Ceramics 1
 609 *Ceramics 2
 605 *Drawing 1
 610 *Drawing 2
 606 *Painting 1
 611 *Painting 2
 607 *Sculpture 1
 617 *Sculpture 2
 619 *Digital Design 1
 625 #Digital Design 2**
 626 *Photography 1
 628 *Photography 2
 633 *Printmaking
 629-630 Adv. 3-Dimensional Art
 621-622 #Art History, AP
 623-624 #Studio Art, AP 2D/Draw ing
 6201-6202 #Studio Art, AP 3D Design

Mathematics

209-210 Algebra 1
 211-212 Geometry
 215-216 Algebra 2
 2171-2172 Algebra 2 Honors
 251-252 Pre-Calculus/Trigonometry
 2521-2522 Pre-Calculus/Trigonometry Honors (AB)
 2543-2544 Pre-Calculus/Trigonometry Honors (BC)
 2181-2182 Finite Math (non dual credit)
 239-240 #Statistics, AP
 229-230 #Calculus AB, AP
 2341-2342 #Calculus BC, AP

Physical Education/Health

8041-8042 *Adv Physical Fitness
 8061-8062 *Adv Athletic Development
 8091-8092 *Adv Athletic Development
 8073-8074 *Team Sports
 816 *Lifeguarding
 8071-8072 *Personal Fitness

PLTW: Biomedical Sciences

5931-5932 Principles of Biomedical Sciences
 5721-5722 Human Body Systems
 5811-5812 Medical Interventions

PLTW: Computer Science

5581-5582 #Computer Science Principles, AP
 5583-5584 #Computer Science A, AP
 5585-5586 Cybersecurity

PLTW: Engineering

5831-5832 #Intro to Engineering Design**
 5861-5862 #Principles of Engineering**
 5871-5872 #Digital Electronics**
 5911-5912 #Civil Engineering & Architecture**

Science

307-308 Biology
 311-312 Chemistry
 3453-3454 #Adv Sci CC/IT Chem 101**
 353-354 Integrated Chemistry-Physics
 351-352 Earth Systems
 315-316 Physics 1
 3481-3482 Pre-AP Physics 1 Honors
 339-340 Anatomy & Physiology
 309-310 Zoology
 3401-3402 #Anatomy & Physiology CC/VU BIOL111-111L/112-112L**
 361-362 Intro to Forensic Science
 319-320 #Biology, AP
 321-322 #Chemistry, AP
 349-350 #Environmental Science, AP
 357-358 #Physics C, AP
 371 *Oceanography
 381 *Astronomy

Social Studies

427-428 #World History, AP
 441-442 #Human Geography, AP
 403-404 US History
 4043-4044 #Adv SS CC - US History**
 405-406 #US History, AP
 411 *Psychology
 429 #Psychology, AP
 413 *Sociology
 400 *Indiana Studies
 4000 *Ethnic Studies

World Languages

501-502 French 1
 503-504 French 2
 505-506 French 3
 5001-5002 #Adv Fren CC/VU FREN 201/203**
 5101-5102 #French, AP
 511-512 German 1
 513-514 German 2
 515-516 German 3
 5003-5004 #Adv. German CC/BSU GRMN 201/203**
 519-520 #German, AP
 531-532 Spanish 1
 533-534 Spanish 2
 535-536 Spanish 3
 5301-5302 #Adv Span CC/VU SPAN 201/203**
 5401-5402 #Spanish, AP

Miscellaneous

897 Study Hall

*One Semester Course
 #Weighted Course
 **Dual Credit Course

SENIOR COURSE OFFERINGS

Required Courses:

- US Government or US Government AP
- Economics or Microeconomics AP
- English 12 or English 111/215 or Lang and Comp AP or Ethnic Literature

Business, Marketing & Information

Technology Education

675-676 #Marketing/CC Ivy Tech**
 6577-6578 #Advanced Business Mgmt**
 6913-6914 #Entrepreneurship & New Ventures**
 661-6611 Accounting Fundamentals
 662-6622 Advanced Accounting
 6661-6671 #Business Law & Ethics**
 6587-6588 Administrative & Office Mgmt (DECA)
 6755-6766 Marketing Fundamentals-NLPS
 7205-7206 Coop Education-Internship (3 periods)
 7201-7202 Coop Education-Internship (2 periods)
 6770-6771 Digital Marketing

Career and Technical Education

5986-5987 TV & Video Production II
 9679-9680 TV & Video Production III
 997-998 Advanced TV & Video Production
 5992-5993 Live TV & Video Production
 5996-5997 A/V Production Essentials

English

157-158 English 12
 159-1599 Ethnic Literature
 1651-1652 #English Lit & Comp, AP
 1861-1902 #Adv. Eng CC/IT ENGL 111/215**
 169-170 Student Publications Newspaper
 171-172 Student Publications Yearbook
 1661 Film Literature

Family & Consumer Sciences

709 *Principles of Culinary and Hospitality
 710 *Nutrition
 712 *Adv Child Development
 708 *Human Development and Wellness
 713 *Principles of Interior Design
 703 *Principles of Fashion and Textiles
 704 *Textiles, Apparel, & Merchandising
 7005 *Advanced Textiles
 7101 *Culinary Arts
 7125 *Interior Design Fundamentals

Fine Arts: Music

765 *Piano & Electronic Keyboard
 761-762 Intermediate Orchestra
 7771-7772 Symphony Orchestra
 776-7763 Instrumental Ensemble Percussion
 779-780 Advanced Concert Band Wind
 781-782 Intermediate Concert Band Concert
 7761-7762 Intermediate Concert Band Symphonic
 783-784 Dance Performance – Color Guard
 785-786 Beginning Chorus Choralaires
 7967-7968 Intermediate Chorus-Bella Voce
 7963-7964 Beginning Chorus Dog Pound Choir
 797-798 Concert Choir
 787-788 The Blend
 789-790 Bel Canto Voices
 7741-7742 Madrigals
 7773-7774 Jazz Ensemble
 7935 *Music Appr: School of Rock
 7961-7962 Starlight Voices
 793-794 Music Theory & Composition
 7931-7932 #Music Theory, AP

Fine Arts: Theater

173 *Theatre Arts 1
 183 *Theatre Arts 2
 184 *Technical Theatre
 188 *Adv Technical Theatre

Fine Arts: Visual Arts

601 *Intro to 2-Dimensional Art
 616 *Intro to 3-Dimensional Art
 602 *Ceramics 1
 609 *Ceramics 2
 605 *Drawing 1
 610 *Drawing 2
 606 *Painting 1
 611 *Painting 2
 607 *Sculpture 1
 617 *Sculpture 2
 619 *Digital Design 1
 625 *Digital Design 2**
 626 *Photography 1
 628 *Photography 2
 633 *Printmaking
 621-622 #Art History, AP
 623-624 #Studio Art, AP 2D/Draw ing
 6201-6202 #Studio Art, AP 3D Design

Mathematics

209-210 Algebra 1
 211-212 Geometry
 215-216 Algebra 2
 2171-2172 Algebra 2 Honors
 257-258 Pre-Calculus/Trigonometry
 2521-2522 Pre-Calculus/Trigonometry Honors (AB)
 2543-2544 Pre-Calculus/Trigonometry Honors (BC)
 2181-2182 Finite Math (non dual credit)
 239-240 #Statistics, AP
 2421 #*Adv Math CC- Finite**
 2422 #*Adv Math CC - Applied Calc**
 2426 #*Adv Math CC - College Algebra**
 229-230 #Calculus AB, AP
 2341-2342 #Calculus BC, AP

Multidisciplinary

8951-8952 #Educ 101 Cadet Teaching**

Physical Education/Health

8041-8042 *Adv Physical Fitness
 8061-8062 *Adv Athletic Development
 8091-8092 *Adv Athletic Development
 8073-8074 *Team Sports
 816 *Lifeguarding
 8071-8072 *Personal Fitness

PLTW: Biomedical Sciences

5931-5932 Principles of Biomedical Sciences
 5721-5722 Human Body Systems
 5811-5812 Medical Interventions
 5591-5592 Biomedical Innovations

PLTW: Computer Science

5581-5582 #Computer Science Principles, AP
 5583-5584 #Computer Science A, AP
 5585-5586 Cybersecurity

PLTW: Engineering

5831-5832 #Intro to Engineering Design**
 5861-5862 #Principles of Engineering**
 5871-5872 #Digital Electronics**
 5911-5912 #Civil Engineering & Architecture**
 595-596 Engineering Design & Dev

Science

307-308 Biology
 311-312 Chemistry
 3453-3454 #Adv Sci CC/IT Chem 101**
 353-354 Integrated Chemistry-Physics
 351-352 Earth Systems
 315-316 Physics I
 3481-3482 Pre-AP Physics I Honors
 339-340 Anatomy & Physiology
 309-310 Zoology
 361-362 Intro to Forensic Science
 319-320 #Biology, AP
 321-322 #Chemistry, AP
 349-350 #Environmental Science, AP
 357-358 #Physics C, AP
 3401-3402 #Anatomy & Physiology
 CC/VU BIOL111-111L/112-112L**
 371 *Oceanography
 381 *Astronomy

Social Studies

427-428 #World History, AP
 441-442 #Human Geography, AP
 407 *US Government
 421 *#US Government & Politics, AP
 408 *Economics
 422 *#Microeconomics, AP**
 411 *Psychology
 429 #*Psychology, AP**
 413 *Sociology
 400 *Indiana Studies
 4000 *Ethnic Studies

World Languages

501-502 French 1
 503-504 French 2
 505-506 French 3
 5001-5002 #Adv. French CC/VU
 FREN 201/203**
 5101-5102 #French, AP
 511-512 German 1
 513-514 German 2
 515-516 German 3
 5003-5004 #Adv. German CC/BSU GRMN 101/103
 GRMN 201/203**
 519-520 #German, AP
 531-532 Spanish 1
 533-534 Spanish 2
 535-536 Spanish 3
 5301-5302 #Adv Span CC/VU
 SPAN 201/203**
 5401-5402 #Spanish, AP

Miscellaneous

897 Study Hall

*One Semester Course
 #Weighted Course
 **Dual Credit Course

BUSINESS & MARKETING

Business & Marketing Course Sequencing

This chart illustrates a variety of study sequences. There are multiple paths that students may take. All final decisions should be made with the student's guidance counselor.

TYPICAL BUSINESS COURSE PROGRESSION		
	CORE 40 Designation	Academic Honors Designation
9 TH	Principles of Business Principles of Business	Principles of Business Accounting Fundamentals
10 TH	Principles of Business Business Law and Ethics Principles of Marketing Marketing Fundamentals Accounting Fundamentals	Principles of Business Accounting Fundamentals
11 TH	Advanced Business Management Principles of Marketing Digital Marketing Accounting Fundamentals Advanced Accounting	Advanced Business Management Principles of Marketing Digital Marketing Entrepreneurship & New Ventures Business Law and Ethics
12 TH	Advanced Business Management Principles of Marketing Digital Marketing Accounting Fundamentals Advanced Accounting Administrative & Office Management (DECA) <u>Internship Courses:</u> Cooperative Education/WBL Capstone Cadet Teaching	Advanced Business Management Principles of Marketing Digital Marketing Entrepreneurship & New Ventures Business Law and Ethics

PRINCIPLES OF BUSINESS MANAGEMENT- NLPS

Course Number: 689-690

Grade 9-10

FULL YEAR

2 Credits

CORE 40, AHD, & THD elective & directed elective course

Principles of Business Management examines business ownership, organization principles and problems, management, control facilities, administration, financial management, and development practices of business enterprises. This course will also emphasize the identification and practice of the appropriate use of technology to communicate and solve business problems and aid in decision making. Attention will be given to developing business communication, problem-solving, and decision-making skills using spreadsheets, word processing, data management, and presentation software.

ADVANCED BUSINESS MANAGEMENT CC/IT BUSN 101

Course Number: 6577-6578

Grade 11-12

FULL YEAR

2 Credits

CORE 40, AHD, & THD elective & directed elective course

Dual Credit available with Ivy Tech

This is a grade weighted course. Students must have qualifying test scores, take the course for college credit, and receive a grade of C- or higher to receive a grade weight.

Principles of Business Management focuses on the roles and responsibilities of managers as well as opportunities and challenges of ethically managing a business in the free enterprise system. Students will also learn about personal finance, credit, and consumer decisions. Students will attain an understanding of management, team building, leadership, problem solving steps and processes that contribute to the achievement of organizational goals. The management of human and financial resources is emphasized. This course includes a DECA component. DECA is the co-curricular club for students enrolled in marketing courses. Activities include social, civic, and competitive opportunities for the students. Students will have the option to compete in the competency-based series of DECA events based on the Marketing Education Framework.

MARKETING FUNDAMENTAL-NLPS

Course Number: 6755-6766 Grade 10-12

FULL YEAR 2 Credits

CORE 40, AHD, & THD elective & directed elective course

Marketing Fundamentals provides a basic introduction to the scope and importance of marketing in the global economy. Course topics include the seven functions of marketing: promotion, channel management, pricing, product/service management, market planning, marketing information management, and professional selling skills. Emphasis is marketing content but will involve use of oral and written communications, mathematical applications, problem-solving, and critical thinking skills through the development of an integrated marketing plan and other projects.

PRINCIPLES OF MARKETING CC/IT MKTG 101

Course Number: 675-676 Grade 10-12

FULL YEAR 2 Credits

CORE 40, AHD, & THD elective & directed elective course

Dual Credit available through Ivy Tech

This is a grade weighted course. Students must have qualifying test scores, take the course for college credit, and receive a grade of C- or higher to receive a grade weight.

Principles of Marketing is a business course, which provides a basic introduction to the scope and importance of marketing in the global economy. Topics covered include distribution, financing, marketing information management, pricing, product/service management, promotion, and selling. In addition to the establishment of basic marketing principles and practices, students will have the opportunity to individually explore selected marketing careers. This course includes a DECA component. DECA is the co-curricular club for students enrolled in marketing courses. Activities include social, civic, and competitive opportunities for the students. Students will have the option to compete in the competency-based series of DECA events based on the Marketing Education Framework.

DIGITAL MARKETING

Course Number: 6770-6771 Grade 11-12

FULL YEAR 2 Credits

CORE 40, AHD, & THD elective & directed elective course

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

ENTREPRENEURSHIP AND NEW VENTURES CAPSTONE CC/IT ENTR 101

Course Number: 6913-6914 Grade 11-12

FULL YEAR 2 Credits

CORE 40, AHD, & THD elective & directed elective course

Dual Credit available through Ivy Tech

This is a grade weighted course. Students must have qualifying test scores, take the course for college credit, and receive a grade of C- or higher to receive a grade weight.

Prerequisite: Marketing 675-676

Entrepreneurship and New Ventures introduces entrepreneurship and development skills and tools critical for starting and succeeding in a new venture. The entrepreneurial process of opportunity recognition, innovation, value proposition, competitive advantage, venture concept, feasibility analysis, and “go to” market strategies will be explored through mini case studies of successful and unsuccessful entrepreneurial start-ups. Additionally, topics of government and legal restrictions, intellectual property, franchising location, basic business accounting, raising startup funding, sales and revenue forecasting and business plan development will be presented through extensive use of word processing, spreadsheet and presentation software. This course includes a DECA component. DECA is the co-curricular club for students enrolled in marketing courses. Activities include social, civic, and competitive opportunities for the students. Students will have the option to compete in the competency-based series of DECA events based on the Marketing Education Framework.

ACCOUNTING FUNDAMENTALS

Course Number: 661-6611

Grade 9-12

FULL YEAR

2 Credits

CORE 40, AHD, & THD elective & directed elective course

Prerequisite: Algebra I

Introduction 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. This course includes a DECA component. DECA is the co-curricular club for students enrolled in marketing courses. Activities include social, civic, and competitive opportunities for the students. Students will have the option to compete in the competency-based series of DECA events based on the Marketing Education Framework.

ADVANCED ACCOUNTING

Course Number: 662-6622

Grade 10-12

FULL YEAR

2 Credits

CORE 40, AHD, & THD elective & directed elective course

Prerequisite: Accounting Fundamentals

Advanced Accounting is a course that will continue to build on a student’s current knowledge and understanding of concepts learned in Introduction to Accounting. Advanced Accounting will focus on completing the accounting cycle for a merchandising corporation. In addition to utilizing the general journal, students will be introduced to the following special journals: sales, cash receipts, purchases, cash payments. By the end of the semester, the students will be able to prepare financial statements for a Corporation, calculate depreciation, bad debt and inventory values. This course includes a DECA component. DECA is the co-curricular club for students enrolled in marketing courses. Activities include social, civic, and competitive opportunities for the students. Students will have the option to compete in the competency-based series of DECA events based on the Marketing Education Framework.

BUSINESS LAW AND ETHICS CC/IT IVY TECH BUSN 201

Course Number: 6661-6671

Grade 10-12

FULL YEAR

2 Credits

CORE 40, AHD, & THD elective & directed elective course

Dual Credit available through Ivy Tech

This is a grade weighted course. Students must have qualifying test scores, take the course for college credit, and receive a grade of C- or higher to receive a grade weight.

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. DECA is the co-curricular club for students enrolled in marketing courses. Activities

FULL YEAR

4 Credits

CORE 40, AHD, & THD elective & direct elective course

Dual credit available through Ivy Tech CC.

This is a grade weighted course. Students must receive a grade of C- or higher to receive a grade weight. Students are also required to enroll and pay for dual credit in order to receive the grade weight.

Cadet Teaching encourages self-scrutiny in relation to the teaching profession, helping students to understand whether teaching is a profession they would want to pursue. The course helps students realize that choosing a career path involves self-assessment, career exploration, and planning. Students will explore teaching as a profession, classroom management, and issues in education. Teaching will be scrutinized from diverse perspectives, integrating key concepts with real life experiences. Students will be assigned to an elementary or middle school within BCSC during the last period of the day. (Students must provide their own transportation)

CAREER AND TECHNICAL EDUCATION

TYPICAL TV & VIDEO PRODUCTION COURSE PROGRESSION		
	CORE 40 Designation	Academic Honors Designation
9TH	TV & Video Production I Principles of Broadcasting	TV & Video Production I
10TH	TV & Video Production I Principles of Broadcasting Audio/Video Production Essentials	Select One: TV & Video Production I TV & Video Production II
11TH	TV & Video Production I Principles of Broadcasting Audio/Video Production Essentials	Select One: TV & Video Production I TV & Video Production II Live TV & Video Production
12TH	TV & Video Production I Audio/Video Production Essentials	Select One: Adv. TV & Video Production II TV & Video Production II Live TV & Video Production

TV & VIDEO PRODUCTION I

Course Number: 9675 - 9676

Grade 9-11

FULL YEAR

2 Credits

CORE 40, AHD, & THD elective & directed elective course

Intro to TV & Video Production is designed to introduce students to the world of video production, as well as develop and enhance competencies in various forms of video production. Students will get a broad understanding of the production process, as well as the different roles included in that process. They will also get a basic knowledge of the different types of equipment used in the production process including cameras, tripods, microphones, lights, sets, studio equipment, video switchers and video editing software. They will also learn basic techniques for using the equipment. This class uses a "hands-on" approach to experience the creation of media messages and the building blocks of video production.

TV & VIDEO PRODUCTION II

Course Number: 5986-5987

Grade 10-12

FULL YEAR

4 Credits

CORE 40, AHD, & THD elective & directed elective course

Prerequisite: Teacher Recommendation Only (Must complete TV and Video Production I)

This class is designed for students to build upon the knowledge they already have from Intro to TV & Video Production. Students should already know the basics and will be going more in-depth into production. Students will be advancing their knowledge of the equipment and using more advanced techniques in each of the production phases. Students will be responsible for helping to create unique content for various BHS & BCSC outlets including the announcements newscast, BCSC-TV cable channel, BHS-TV YouTube Channel and more. Students will hear from guest speakers that work or have worked in various aspects of TV & Video Production, as well as have the opportunity to visit and tour local television stations, sporting venues, and other production facilities. This class prepares students for admission to television production programs at institutions of higher learning.

TV & VIDEO PRODUCTION III

Course Number: 9679-9680

Grade 10-12

FULL YEAR

4 Credits

CORE 40, AHD, & THD elective & directed elective course

Prerequisite: Teacher Recommendation Only (Must complete TV and Video Production II)

Advanced Broadcast/Television is designed for students to build upon the knowledge they already have from TV & Video II and Intro to TV & Video Production. Students should already know the basics and will be going more in-depth into production. Students will be advancing their knowledge of the equipment and using more advanced techniques in each of the production phases. Students will be responsible for helping

to create unique content for various BHS & BCSC outlets including the announcements newscast, BCSC-TV cable channel, BHS-TV YouTube Channel and more. Students will hear from guest speakers that work or have worked in various aspects of TV & Video Production, as well as have the opportunity to visit and tour local television stations, sporting venues, and other production facilities. This class prepares students for admission to television production programs at institutions of higher learning.

ADVANCED TV & VIDEO PRODUCTION

Course Number: 997-998

Grade 12

FULL YEAR

4 Credits

CORE 40, AHD, & THD elective & directed elective course

Prerequisite: Teacher Recommendation Only (Must complete TV & Video Production II)

CORE 40, AHD, & THD elective & directed elective course

Two Period Block (2nd & 3rd – overlapping with Advanced TV)

Advanced Broadcast/Television II is a class for seniors who have already completed 2 years in Advanced TV, but wish to continue in this field and are either taking production classes in college, or thinking about taking some in college. The main requirement in this class is to produce a ½ hour show for BCSC-TV every other week. This show would include anything and everything going in throughout BCSC (BHS and MS/Elementary). These students would be required to attend events both during class time and outside of school to produce various video packages for the television show. The show will be their own to create and take control of, with supervision and guidance provided by the instructor. They will be in charge of every step of the production phase in order to make this show happen every other week. These students would also be eligible to continue participation in BHS-TV/Announcements.

LIVE TV & VIDEO PRODUCTION

Course Number: 5992-5993

Grade 10-12

FULL YEAR

2 Credits

PREREQUISITE: TV & Video Production I (or have been a member of Extended Play), Teacher Recommendation Only.

CORE 40, AHD, & THD elective & directed elective course

Live Event Production is designed for students to use their video production skills and apply them to live events around BCSC. Students will learn all the ins and outs of producing a live event, from preproduction all the way through post production. This includes all of the planning details such as what equipment and personnel are needed, a timeline of events, crew positions and responsibilities, camera placements, necessary graphics and background information, meeting with choir and theatre leaders, coaches, and more. The students will be required to attend a minimum number of night and weekend events where they will serve as producers and oversee all of the event aspects in which they have previously planned for. After the event, students will conduct a thorough review of all aspects of production and make corrections and updates for their next event.

PRINCIPLES OF BROADCASTING

Course Number: 5994-5995

Grades 9-11

FULL YEAR

2 Credits

CORE 40, AHD, & THD elective & directed elective course

The purpose of the Principles of Broadcasting course is to provide entry-level fundamental skills for students who wish to seek or pursue opportunities in the field of broadcasting or mass media. Students will explore the technical aspects of audio and sound design for radio production and distribution, as well as the technical aspects of video production and distribution.

AUDIO/VIDEO PRODUCTION ESSENTIALS

Course Number: 5996-5997

Grades 10-12

FULL YEAR

2 Credits

PREREQUISITE: Principles of Broadcasting

CORE 40, AHD, & THD elective & directed elective course

Audio and Video Production Essentials provides an in-depth study on audio and video production techniques for radio, television, and digital technologies. Students will learn skills necessary for audio production and on-air work used in radio and other digital formats. Additionally, experience will be gained

in the development of the video production process, including skills in message development, directing, camera, video switcher, and character generator operations.

ENGLISH

BHS requires eight credits in English to graduate. Students will complete two semesters of English each year and one semester of PCC: Speech (Practical Arts credit) during 10th grade. Honors classes are available at each level and are as follows: 9th grade – Pre-AP English 9 Honors; 10th grade – Pre-AP English 10 Honors; 11th grade - AP Language & Composition; 12th grade - AP Literature & Composition or Advanced English for college credit.

TYPICAL ENGLISH COURSE PROGRESSION		
	CORE 40 Designation	Academic Honors Designation
9 TH	English 9	<u>Choose One:</u> English 9 Pre-AP English 9
10 TH	PCC: Speech English 10	PCC: Speech <u>Choose One:</u> English 10 Pre-AP English 10
11 TH	English 11	<u>Choose One:</u> English 11 AP Language and Composition
12 TH	English 12 Ethnic Literature	<u>Choose One:</u> English 12 or Ethnic Literature Advanced English CC/IT 111/215 AP Literature and Composition

English Electives
<ul style="list-style-type: none"> • Yearbook • Newspaper • Film Literature

ENGLISH 9

Course Number: 103-104

Grade 9

FULL YEAR

2 Credits

Core 40, AHD, & THD English/Language Arts course

Through the integrated study of literature, composition, and oral communication, English 9 students further develop their use of language as a tool for learning and thinking and as a source of pleasure. Students practice identifying, analyzing, and composing with different elements, structures, and genres of written language. Literature instruction focuses on opportunities to read and comprehend a broad variety of literature, applying appropriate reading strategies to enhance reading skills and literary appreciation. The composition component of language arts requires students to write for various audiences and purposes while strengthening skills in paragraph and multi-paragraph writing. Using technology, students receive instruction and practice in the writing process. This process includes: (1) prewriting; and outlining; (2) drafting; (3) revising, which includes obtaining, evaluating, and using feedback to rewrite the substance of the document; (4) editing, which includes attending to issues of spelling, grammar, punctuation, and style using the Modern Language Association [MLA]. Composition also provides opportunities to create multiple types of writing.

PRE-AP ENGLISH 9 HONORS**Course Number: 109-110****Grade 9**

FULL YEAR

2 Credits

Core 40, AHD, & THD English/Language Arts course

Prerequisite: Earned an A- or higher in Eng. 8 or B- or higher in HA Eng. 8, passed 8th E/LA ILEARN, and Teacher Recommendation

This course is constructed to build important communication skills that will enhance all aspects of the individual's life. This course provides instruction in how to acquire, analyze, and evaluate today's world situations. Skill in public speaking helps the individual to think logically, clearly, and creatively. It also contributes to the student's understanding of oneself and his or her own management of relationships. This required graduation course is designed to lead students to a proper understanding of oneself as a communicator. This course provides strong focus on effective communication skills, career exploration, goal setting, decision making, online collaboration, and video self-assessment.

PCC: SPEECH**(Required 10th grade course)****Course Number: 7012****Grade 10**

ONE SEMESTER

1 Credit

Core 40, AHD, & THD English/Language Arts course

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

ENGLISH 10**Course Number: 125-126****Grade 10**

FULL YEAR

2 Credits

Core 40, AHD, & THD English/Language Arts course

Prerequisite: English 9

English 10 reinforces and continues to make full use of many of the activities and skills of English 9. Literature instruction focuses on the following opportunities: respond critically, reflectively, and imaginatively to multicultural literature from around the world; recognize the relevance of this literature to today's world; distinguish the purpose of a text; and identify the various genres of writing. The composition component of language arts provides students with opportunities to write for various audiences and purposes. Students identify and employ various elements of good writing in well-organized, expository, argumentative and narrative writings. As a part of the writing process, students develop writing skills focused on the six traits of writing.

PRE-AP ENGLISH 10 HONORS**Grade 10****Course Number: 121-122**

2 Credits

FULL YEAR

Core 40, AHD, & THD English/Language Arts course

Prerequisite: Earned an B or higher in English 9 and Teacher Recommendation

Pre-AP English 10 Honors is a course designed to provide an educational challenge for students. Pre-AP English 10 Honors students are expected to read from a variety of literary genres to broaden their perspectives, to become critical thinkers, and to communicate proficiently through a variety of writing assignments and thematic units. Students enrolled in Pre-AP English 10 Honors analyze a variety of texts from narrative, expository, and argumentative genres. Students hone their ability to analyze how authors employ literary elements and rhetorical devices for a purpose. This critical reading and writing focus is the

basis for AP-level reading and writing. As a part of the writing process, students also develop writing skills focused on the six traits of writing.

ENGLISH 11

Course Number: 147-148

Grade 11

FULL YEAR

2 Credits

Core 40, AHD, & THD English/Language Arts course

Prerequisite: English 10

In English 11, students move from predominantly analyzing and using the elements of written language to making judgments based on those analyses. English 11 also incorporates a literary canon, much of which is from a culture or time period different from that of the students – American literature from different periods. Literature instruction focuses on opportunities to: develop criteria for judging and analyzing literary works, speeches, essays, and poetry. Students also have opportunities to select appropriate reading skills and strategies to: 1) distinguish elements in literature that make it a reflection of the social, economic, political thinking, or condition of the times; 2) analyze literature as it reflects divergent points of view; and 3) identify how contemporary writing reflects past tradition and movements, respond critically, reflectively, and imaginatively to American literature.

ENGLISH LANGUAGE & COMPOSITION, ADVANCED PLACEMENT

Course Number: 155-156

Grade 11

FULL YEAR

2 Credits

Core 40, AHD, & THD English/Language Arts course

Prerequisite: Earned an A- or higher in English 10 or a B- or higher in Pre-AP English 10 HONORS and Teacher Recommendation.

This is a grade weighted course. Students must receive a grade of C- or higher to receive a grade weight. Students are required to take the Advanced Placement exams in May in order to receive the grade weight. Additional textbook fees are assessed for this course.

This AP Language and Composition course assumes that students already understand and use Standard English grammar and conventions. The nonfiction literature of this course functions as the means for creating student understanding of rhetorical and linguistic choices, rather than as a means for studying literary conventions as are common to traditional English literature courses. This course will focus on the advanced development of critical reading, analytical writing, and argumentative writing skills appropriate for academic writing at an elementary collegiate level. Daily instruction requires students to read critically from a vast selection of nonfiction works outside of class as the basis for daily discussion and in-class activities. Students will be required to demonstrate ability to utilize effective writing techniques through argumentation essays, persuasive essays, analysis essays, a research paper and various other projects throughout the course. Book rental fees are usually higher for College Board AP courses because students must purchase the books. ***Students enrolled in AP courses are expected to complete the summer reading and writing requirements at each level.***

ENGLISH LITERATURE AND COMPOSITION, ADVANCED PLACEMENT

Course Number: 1651-1652

Grade 12

FULL YEAR

2 Credits

Core 40, AHD, & THD English/Language Arts course

Prerequisite: Earned an A- or higher in English 11 or a B- or higher in AP English Language & Composition and Teacher Recommendation.

This is a grade weighted course. Students must receive a grade of C- or higher to receive a grade weight. Students are required to take the Advanced Placement exams in May in order to receive the grade weight. Additional textbook fees are assessed for this course.

English Literature and Composition, Advanced Placement is a course based on the content established by the College Board. Students enrolled in the course will be expected to approach literature aggressively – close, critical reading, detailed annotations, and an eye for literary techniques and their effects. The course curriculum includes challenging texts from multiple time periods, cultures, and genres; students should be ready to encounter poetry, Shakespeare, multiple complex short stories and novels, and contemporary drama. Students will write well-developed and organized essays that are clear, coherent and argumentative in nature. Argumentative writing is stressed to prepare students for collegiate-level composition. AP

ENGLISH ELECTIVES

STUDENT PUBLICATIONS - NEWSPAPER

Course Number: 169-170

Grade 9-12

FULL YEAR

2 Credits

Fulfills a Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

Students will work collaboratively in the planning, writing, editing, managing and production of the school newspaper, *The Paw Print*. This course includes instruction and practice in effective journalistic writing forms and techniques as well as layout, design and typography. Representative examples of amateur and professional journalism are studied. Word processing and desktop publishing are used in the production of the school newspaper. Students follow writing style guidelines as set forth in the Associated Press Stylebook and Libel Manual. Students also continue to develop their skills in writing, design, business management and desktop publishing. The nature of this course allows for successive semesters of instruction at an advanced level. Students choosing this course must recognize and commit to the extracurricular nature of the course. It is expected that students participate in project work times outside of the school day.

STUDENT PUBLICATIONS - YEARBOOK

Course Number: 171-172

Grade 9-12

FULL YEAR

2 Credits

Fulfills a Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

In this course, students will work collaboratively in the planning, writing, editing, managing and production of the school's yearbook, *The Tempo*. This course includes instruction and practice in effective journalistic writing forms and techniques, as well as layout, design and typography. Representative examples of amateur and professional journalism are studied. Students are trained in desktop publishing, advertising sales, photography, graphic design, interviewing and feature writing. The nature of this course allows for successive semesters of instruction at an advanced level. Students choosing this course must recognize and commit to the extracurricular nature of the course. It is expected that students participate in project work times outside of the school day.

ENGLISH AS A NEW LANGUAGE (ENL)

Course Number: 193

Grade 9-12

FULL YEAR

4 Credits (Max)

Core 40, AHD, & THD English/Language Arts course

English as a New Language provides Limited English Proficiency (LEP) students with instruction in English intended to improve their proficiency in listening, speaking, reading, and writing. Emphasis is placed on helping students to function within the regular school setting and within an English-speaking society.

A maximum of four (4) credits may be earned through this course title in the foreign language area, or English as a New Language in the language arts area, or a combination of the two areas, provided that defined standards are utilized. Students who complete four credits in English as a New Language will be permitted to audit additional semesters of this course if approved by the school administration.

FILM LITERATURE

Course Number: 1661

Grades 11-12

ONE SEMESTER

1 Credit

Core 40, AHD, & THD elective course

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.

FAMILY & CONSUMER SCIENCES

TYPICAL FAMILY & CONSUMER SCIENCES COURSE PROGRESSION		
	CORE 40 Designation	Academic Honors Designation
9TH	Select One: Principles of Culinary and Hospitality Principles of Fashion & Textiles Principles of Interior Design	Select One Through Two: Principles of Culinary and Hospitality Principles of Fashion & Textiles Principles of Interior Design
10TH	Select One: Principles of Culinary and Hospitality Nutrition* Culinary Arts* Advanced Child Development Principles of Fashion & Textiles Textiles, Apparel & Merchandising* Advanced Textiles* Principles of Interior Design Interior Design Fundamentals*	Select One Through Three: Principles of Culinary and Hospitality Nutrition* Culinary Arts* Advanced Child Development Principles of Fashion & Textiles Textiles, Apparel & Merchandising* Advanced Textiles* Principles of Interior Design Interior Design Fundamentals*
11th	Select One: Principles of Culinary and Hospitality Advanced Child Development Nutrition* Culinary Arts* Principles of Fashion & Textiles Textiles, Apparel & Merchandising* Advanced Textiles* Principles of Interior Design Interior Design Fundamentals*	Select One Through Four: Principles of Culinary and Hospitality Nutrition* Culinary Arts* Advanced Child Development Principles of Fashion & Textiles Textiles, Apparel & Merchandising* Principles of Interior Design Interior Design Fundamentals*
12th	Select One: Principles of Culinary and Hospitality Nutrition* Culinary Arts* Advanced Child Development Human Development & Wellness Principles of Fashion & Textiles Textiles, Apparel & Merchandising* Advanced Textiles* Principles of Interior Design Interior Design Fundamentals*	Select One Through Four: Principles of Culinary and Hospitality Nutrition* Culinary Arts* Human Development & Wellness Advanced Child Development Principles of Fashion & Textiles Textiles, Apparel & Merchandising* Advanced Textiles* Principles of Interior Design Interior Design Fundamentals*
*Pre-requisite required		

PRINCIPLES OF CULINARY AND HOSPITALITY

Course Number: 709

Grade 9-12

ONE SEMESTER

1 Credit

CORE 40, AHD, & THD elective & directed elective course

Principles of Culinary and Hospitality is designed to develop an understanding of the hospitality industry and career opportunities, and responsibilities in the food service and lodging industry. Introduces procedures for decision making which affects operation management, products, labor, and revenue. Additionally, students will learn the fundamentals of food preparation, basic principles of sanitation, service procedures, and safety practices in the food service industry including proper operation techniques for equipment.

NUTRITION

Course Number: 710

Grade 10-12

ONE SEMESTER

1 Credit

CORE 40, AHD, & THD elective & directed elective course

Prerequisite: *Principles of Culinary and Hospitality*

Nutrition students will learn the characteristics, functions, and food sources of the major nutrient groups and how to maximize nutrient retention in food preparation and storage. Students will be made aware of nutrient needs throughout the life cycle and to apply those principles to menu planning and food preparation. This course will engage students in hands-on learning of nutritional concepts such as preparing nutrient dense meals or examining nutritional needs of student athletes

CULINARY ARTS

Course Number: 7101

Grade 10-12

ONE SEMESTER

1 Credit

CORE 40, AHD, & THD elective & directed elective course

Prerequisites: *Principles of Culinary & Hospitality; Nutrition*

Culinary Arts teaches students how to prepare the four major stocks, the five mother sauces (in addition to smaller sauces) and various soups. Additional emphasis is placed on the further development of the classical cooking methods. This course will also present the fundamentals of baking science including terminology, ingredients, weights and measures, and proper use and care of equipment. Students will produce yeast goods, pies, cakes, cookies, and quick breads.

ADVANCED CHILD DEVELOPMENT

Course Number: 712

Grade 10-12

ONE SEMESTER

1 Credit

CORE 40, AHD, & THD elective & directed elective course

Advanced Child Development is an introductory course for all students as a life foundation and academic enrichment; it 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 integrated into the study of child development. This course provides the foundation for continuing and post-secondary education in all career areas related to children, child development, and nurturing of children.

HUMAN DEVELOPMENT & WELLNESS

Course Number: 708

Grade 12

ONE SEMESTER

1 Credit

CORE 40, AHD, & THD elective & directed elective course

Human Development and Wellness is valuable for all students as a life foundation and academic enrichment; it is especially relevant for students interested in careers impacted by individuals' physical, social, emotional, and moral development and wellness across the lifespan. Major topics include principles

of human development and wellness; impacts of family on human development and wellness as well as other topics that will help students transition from high school to the adult world. Life events and contemporary issues addressed in this course include (but are not limited to) change; stress; abuse; personal safety; and relationships among lifestyle choices, health and wellness conditions, and diseases. A project-based approach that utilizes higher order thinking, communication, leadership, and management processes is recommended in order to integrate the study of these topics. Authentic applications through service learning are encouraged.

PRINCIPLES OF FASHION & TEXTILES

Course Number: 703

Grade 9-12

ONE SEMESTER

1 Credit

CORE 40, AHD, & THD elective & directed elective course

Principles of Fashion and Textiles prepares students for occupations and higher education programs of study related to the entire spectrum of careers in the fashion industry. This course builds a foundation that prepares students for all aspects of the fashion creation process. Major topics include: Basic clothing construction techniques, pattern alterations, and use of commercial patterns.

TEXTILES, APPAREL AND MERCHANDISING

Course Number: 704

Grade 10-12

ONE SEMESTER

1 Credit

CORE 40, AHD, & THD elective & directed elective course

Prerequisites: Principles of Fashion & Textiles

Textiles, Apparel, and Merchandising provides a comprehensive overview of the textiles, apparel and merchandising industry specific to fashion related goods including the nature of fashion, raw materials and production, designers, retailers, and supporting services.

ADVANCED TEXTILES

Course Number: 7005

Grade 10-12

ONE SEMESTER

1 Credit

CORE 40, AHD, & THD elective & directed elective course

Prerequisites: Principles of Fashion & Textiles; Textiles, Apparel and Merchandising

Advanced Textiles will focus on the study of textiles concerning fiber, yarn, fabric construction, and finishes which affect the selection, use, and care of textiles.

PRINCIPLES OF INTERIOR DESIGN

Course Number: 713

Grade 9-12

ONE SEMESTER

1 Credit

CORE 40, AHD, & THD elective & directed elective course

Principles of Interior Design introduces students to fundamental design theory and color dynamics as applied to compositional design. Investigations into design theory and color dynamics will provide experiences in applying design theory to three-dimensional concepts, human factors and the psychology and social influences of space. These experiences will develop student's skills in creative problem solving, peer evaluation, and presentation skills.

INTERIOR DESIGN FUNDAMENTALS

Course Number: 7125

Grade 10-12

ONE SEMESTER

1 Credit

CORE 40, AHD, & THD elective & directed elective course

Prerequisites: Principles of Interior Design

Interior Design Fundamentals provides students with an overview of the field of interior (environmental) design, including an understanding of fundamental construction knowledge and skills needed in the field. Exercises include small scale space analysis and functional planning based on user needs, furniture arrangement and selection, materials and finishes considerations and presentation techniques. Students will also learn basics regarding building practices, building structures, residential construction techniques, building materials and plan

reading. Includes building codes, sustainable design practices, and the preparation of site and construction plans, elevations, sections, three-dimensional drawings details and hand renderings as they relate to construction and presentation drawings.

FINE ARTS: PERFORMING ARTS

In order to provide a quality education for every child in Indiana, it is important to provide for all aspects of human growth. The artistic, expressive, and cultural aspects of each child's intellectual, emotional, physical, and social development are vital components of this growth. Research involving the impact of arts education upon mental functions supports the convictions of many educators, parents, and business leaders that the fine arts are essential due to their ability to provide students with the means to think, feel, and understand the world around them in unique ways. Literacy in the arts strengthens a person's participation in society by enhancing problem solving and communication skills as well as fostering self-expression, aesthetic awareness, and multiple points of view. For these reasons, a curriculum in each of the fine arts should be available to all students so that they may become self-directed toward lifelong learning in the arts.

Students who are proficient in the fine arts grow in their ability to think and learn independently. Their view of the world expands as creative avenues to expression and understanding are developed. Ultimately, the entire community benefits through the creativity, vision, and empathy fostered in the fine arts.

INSTRUMENTAL MUSIC - ORCHESTRA

FRESHMAN ORCHESTRA

Course Number: 7605-7606

Grade 9

FULL YEAR

2 Credits

Prerequisite: All students must have prior orchestra experience or Orchestra Director Recommendation.

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course
Freshman Orchestra will consist of all incoming freshmen. This class will provide a continued study of music through instruction, practice, and performance. Ensemble activities are designed to develop elements of musicianship, including but not limited to: tone production, technical skills, intonation, music reading skills, critical listening skills, and sight-singing. Students are expected to attend rehearsals and performances outside of the normal school day.

INTERMEDIATE ORCHESTRA

Course Number: 761-762

Grade 10-12

FULL YEAR

2 Credits

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course
Intermediate Orchestra provides a continued study of music through instruction, practice, and performance. Ensemble activities are designed to develop elements of musicianship, including but not limited to: tone production, technical skills, intonation, music reading skills, critical listening skills, and sight singing. Acceptance into the Intermediate Orchestra is based on audition only. Participation in private lessons are strongly encouraged. Materials will be provided to all current string students and upon request during the semester prior to registration. Students are expected to attend rehearsals and performances outside of the normal school day.

SYMPHONY ORCHESTRA

Course Number: 7771-7772

Grade 10-12

FULL YEAR

2 Credits

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course
Symphony Orchestra provides a comprehensive study of music through instruction, practice, and performance. Ensemble activities are designed to develop elements of musicianship, including but not limited to: tone production, technical skills, intonation, music reading skills, critical listening skills, and sight singing. Acceptance into the Symphony Orchestra is based on audition only. Participation in private lessons are strongly encouraged. Materials will be provided to all current string students and upon request during the semester prior to registration. Students are expected to attend rehearsals and performances outside of the normal school day.

INSTRUMENTAL MUSIC - BAND

FRESHMAN CONCERT BAND

Course Number: 777-778

Grade 9

FULL YEAR

2 Credits

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course
Students may receive one (1) credit in Physical Education (PE I & II) per year in grades 9 and 10 with marching band participation.

Students taking this course are provided with a balanced comprehensive study of music through the concert band, which develops skills in the psychomotor, cognitive, and affective domains. Instruction is designed so that students are enabled to connect, examine, imagine, define, try, extend, refine, and integrate music study into other subject areas. Ensemble and solo activities are designed to develop elements of musicianship including, but not limited to: (1) tone production, (2) technical skills, (3) intonation, (4) music reading skills, (5) listening skills, (6) analyzing music (non-percussion), and (7) studying historically significant styles of literature. This instrumental band is for all 9th grade students. This group will learn the finer points in instrumental music and is used as a prerequisite to the Wind Ensemble. All first year band members must understand they are in an activity that requires participation in activities outside the normal school day.

INTERMEDIATE BAND: CONCERT/SYMPHONIC

Course Number: CONCERT: 781-782

Grade 10-12

Course Number: SYMPHONIC: 7761-7762

Grade 10-12

FULL YEAR

2 Credits

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course
Students may receive one (1) credit in Physical Education (PE I & II) per year in grades 9 and 10 with marching band participation.

Students taking this course are provided with a balanced comprehensive study of music through the concert band, which develops skills in the psychomotor, cognitive, and affective domains. Instruction is designed so that students are enabled to connect, examine, imagine, define, try, extend, refine, and integrate music study into other subject areas. Ensemble and solo activities are designed to develop elements of musicianship including, but not limited to: (1) tone production, (2) technical skills, (3) intonation, (4) music reading skills, (5) listening skills, (6) analyzing music, and (7) studying historically significant styles of literature.

These bands are made up of all students not members of Wind Ensemble. Intermediate Band will be used as the teaching tool to the finer points in instrumental music and as a prerequisite to the Wind Ensemble. All first-year band members must understand they are in an activity that requires participation in activities outside of the school day. Students that have not previously participated in band and wish to learn how to play an instrument may elect to take this course (781-782).

INSTRUMENTAL ENSEMBLE - PERCUSSION

Course Number: 776-7763

Grade 9-12

FULL YEAR

2 Credits

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

Participation in marching band is required. Students may receive one (1) credit in Physical Education (PE I or II) per year in grades 9 and 10.

Students taking this course are provided with a balanced comprehensive study of chamber ensemble and solo literature, which develops skills in the psychomotor, cognitive and affective domains. Instruction is designed to enable students to connect, examine, imagine, define, try, extend, refine, and integrate music study into other subject areas. Student participation will develop elements of musicianship including, but not limited to: (1) tone production, (2) technical skills, (3) intonation, (4) music reading skills, (5) listening skills, (6) analyzing music, and (7) studying historically significant styles of literature as pertaining to chamber ensemble and solo literature. This ensemble will meet the first semester of every school year. The first nine weeks will concentrate on Rudimental Drum Ensemble and the second nine weeks will be dedicated to small and large ensembles. This group will give percussionists more understanding of all percussion instruments and more variety in terms of music and performances. All first-year percussion students are required to sign up for this class. Members must understand they are in an organization which requires participation in activities outside of the normal school day. Students in this course will participate in a concert band each semester.

ADVANCED CONCERT BAND - WIND ENSEMBLE

Course Number: 779-780

Grade 10-12

FULL YEAR

2 Credits

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

AUDITION ONLY. Participation in marching band is required. Sophomores may receive one (1) credit in Physical Education (PE I & II).

Advanced Concert Band provides students with a balanced comprehensive study of music through the concert band, which develops skills in the psychomotor, cognitive, and affective domains. Instruction is designed so that students are enabled to connect, examine, imagine, define, try, extend, refine, and integrate music study into other subject areas. Ensemble and solo activities are designed to develop elements of musicianship including, but not limited to: (1) tone production, (2) technical skills, (3) intonation, (4) music reading skills, (5) listening skills, (6) analyzing music, and (7) studying historically significant styles of literature. This concert band will be the premier performing group of the Band Department. All students are selected by audition from the previous school year with numbers varying from year to year on talent. All members must understand they are in an organization, which requires participation in activities outside of the normal school day.

JAZZ ENSEMBLE

Course Number: 7773-7774

Grade 10-12

FULL YEAR

1 credit

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

Prerequisite: Teacher Recommendation and audition required.

Recommended Prior Experience: Participation in the extracurricular Jazz Ensembles

The Brownsburg Jazz Ensemble is open to students who possess exemplary skills with their instrument and pass an audition given by the Jazz Ensemble Director(s). Jazz Ensemble members automatically perform in the large jazz ensemble ("big band") and select interested students may also perform in the smaller jazz combo (additional co-curricular rehearsal time is expected). Many styles of jazz literature are studied (swing, bebop, funk, Latin, etc.), as well as jazz theory and improvisation. There will be numerous performances throughout the year, including school functions, jazz clinics, contests, and community outreach performances. Instrumentalists other than guitarists and pianists should be enrolled in a concert band (or orchestra, for the bassist). Guitarists and pianists are expected to be highly proficient at reading music and are highly encouraged to take private lessons. Students are highly encouraged to take Piano and/or Music Theory prior to or concurrent with playing in this ensemble.

DANCE

DANCE PERFORMANCE - MARCHING BAND COLOR GUARD/WINTER GUARD

Course Number: 783-784

Grade 9-12

FULL YEAR

2 Credits

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

AUDITION ONLY

Participation in marching band and winter guard is required. *Students may receive one (1) credit in Physical Education (PE I or II) per year in grades 9 and 10.*

Sequential and systematic learning experiences are provided in the specific genre offered, whether it is Ballet, Modern, Jazz, or Ethnic-Folk. Activities utilize a wide variety of materials and experiences and are designed to develop techniques appropriate within the genre, including individual and group instruction in performance repertoire and skills. Students develop the ability to express their thoughts, perceptions, feelings, and images through movement. The performance class provides opportunities for students to experience degrees of physical prowess, technique, flexibility, and the study of dance performance as an artistic discipline and as a form of artistic communication. Ballet, Modern, Jazz, and Ethnic-Folk experiences will be provided with activities selected that will lead to sequential and systematic learning experiences. The students will:

1. Have individual and group instruction in performance repertoire and skills;
2. Develop the ability to express their thoughts, perception, feelings, and images through movement;
3. Understand musical phrasing, rhythmic structures, and meters; and
4. Have opportunities to choreograph.

The class members are expected to join other performing ensembles and perform at all fall band performances and contests. All students enrolled in this class must be a member of the related summer, fall and winter extracurricular activities.

DANCE PERFORMANCE – DANCE CHOREOGRAPHY

Course Number: 7833

Grade 9-12

ONE SEMESTER

1 Credit

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

Participation in performance opportunities outside of the school day, that support and extend learning in the classroom are required. *Students may receive one (1) credit in Physical Education (PE I or II) per year in grades 9 and 10.*

Learning activities in choreography are sequential and systematic and allow students to express themselves. A wide variety of materials and experiences are used in order to provide students with the knowledge, skills, and appreciation of the multi-styled and multicultural dance expressions. Using a modern dance-based approach, Dance Choreography explores movement as a creative art form. Student learning includes opportunities to develop kinesthetic awareness, proper body alignment, physical strength, flexibility, endurance, and care of the dance instrument while exploring improvisational and expressive movement and basic modern dance technique. Dance elements and basic principles of composition are studied and practiced. Through dance ensemble work, students use creative and critical thinking skills to create and communicate meaning through dance movement. Students experience the role of both choreographer and dancer and have opportunities to present their work. Through the study of dance in various cultures and historical periods, students broaden their understanding of dance as an art form. Students will explore a variety of career opportunities in dance as well as connections with other art forms and subject areas. Students will create a portfolio which contains written and/or visual examples of their work. Choreographic activities provide students opportunities to participate in roles as soloist, a choreographer or leader, and in a subject role. Students also explore a wide variety of choreographic philosophies as well as administrative and media skills necessary for the promotion and documentation of works to be performed. Students experience and learn to use appropriate terminology to describe, analyze, interpret, and critique dance compositions by professional individuals or companies.

CHORAL MUSIC

BEGINNING CHORUS - CHORALAIRES

Course Number: 785-786

Grade 9-12

FULL YEAR

2 Credits

Treble Voices Only

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

NON-AUDITION

Choralaires is a non-auditioned course for voices beginning choral music. Students wishing to participate in future intermediate or advanced ensembles should take Choralaires in their freshmen year. All types and styles of music will be studied, as well as vocal techniques necessary for quality, healthful singing. This group appears approximately four times per year with other groups at public concerts. Attendance at all rehearsals and concerts is part of the basic requirement for class credit. Fees will be charged for new music, dry cleaning, and costume rental.

BEGINNING CHORUS - DOG POUND CHOIR

Course Number: 7963-7964

Grade 9-12

FULL YEAR

2 Credits

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

Tenor/Bass Voices Only

NON-AUDITION

Students may receive one (1) credit in Physical Education (PE I or II).

Men's Choir is designed especially for male voices wishing to continue their choral music experience by further developing their sight singing abilities, ear training skills and proper vocal techniques. Students wishing to participate in future Intermediate or Advanced ensembles should enroll in Men's Choir. The Men's Choir will perform approximately four times per year. Attendance at all rehearsals and performances is required as part of the basic requirements for class credit. Fees include charges for new music, dry cleaning, and costume rental.

INTERMEDIATE CHORUS - BELLA VOCE

Course Number: 7967-7968

Grade 10-12

FULL YEAR

2 Credits

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

Prerequisite: Teacher Recommendation Required

AUDITION REQUIRED, Treble Voices

Students may receive one (1) credit in Physical Education (PE I or II).

This combination show/concert choir is an auditioned ensemble designed for treble voices grades 10-12 who have had previous choral experience. 9th grade students may be added to this ensemble at the discretion of the director. Rudiments of music as well as basic vocal and choral techniques will be covered in this class. This group will perform in the Fall, Holiday, Spring and Finale concerts. This group will also compete as both a show choir and a concert choir at the ISSMA organizational contests. Fees will be charged for new music, transportation, dry cleaning, and costume rental. Additional rehearsals may be a component of this class.

INTERMEDIATE CHORUS - CONCERT CHOIR - VIVACE

Course Number: 797-798

Grade 10-12

FULL YEAR

2 Credits

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

AUDITION REQUIRED, MIXED VOICES

Prerequisite: Teacher Recommendation Required

The Concert Choir is composed of all voices wishing to continue their experiences in choral music. Students will work toward enhancing sight reading skills, vocal technique, and ear training, as well as theory concepts. The Concert Choir performs in the Fall, Holiday, Spring and Finale concerts. This group may

also perform in ISSMA activities and invitational competitions. Attendance at all rehearsals and concerts is required for course credit. Fees will include charges for new music, transportation, dry cleaning, and outfit rental.

ADVANCED CHORUS - THE BLEND

Course Number: 787-788 **Grade 10-12**

FULL YEAR 2 Credits

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

AUDITION REQUIRED, Tenor/Bass voices only.

Prerequisite: Teacher Recommendation Required

The Blend is composed of students who wish to continue their choral experience with more challenging repertoire, concepts and performing opportunities. Students will continue sight reading and music activities at an advanced level. This group will perform at all high school concerts as well as ISSMA festivals and invitational competitions. This group also is involved in community performances and athletic events. Attendance at all out of class rehearsals and performances are a part of the requirement for earning class credit. *To be eligible to audition for this group, students must have a 2.0 GPA and maintain a minimum 2.0 GPA throughout the year. Fees will include new music, transportation, dry cleaning, and tux rental.

ADVANCED CHORUS - BEL CANTO VOICES

Course Number: 7901-7902 **Grade 10-12**

FULL YEAR 2 Credits

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

AUDITION REQUIRED, Treble voices only.

Prerequisite: Teacher Recommendation Required

Sophomores may receive one (1) credit in Physical Education (PE I or II).

Bel Canto Voices is composed of voices who exhibit a high degree of musical skill and vocal ability. Bel Canto Voices study a wide variety of choral styles and genres. Sight-reading, ear training and advanced choral concepts are studied in this class. Bel Canto will perform in all school concerts as well as ISSMA activities and invitational concert choir competitions. *This group may also appear at community and athletic events. Attendance at rehearsals and performing events is required for class credit. Students must have a 2.0 GPA to audition for Bel Canto. Fees will be assessed for new music, transportation, dry cleaning, and costume rental.

ADVANCED CHORUS - MADRIGAL SINGERS/SPOTLIGHT SINGERS

Course Number: 7741-7742 **Grade 11-12**

FULL YEAR 2 Credits

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

AUDITION REQUIRED

Prerequisite: Teacher Recommendation Required

Madrigal Singers is a mixed ensemble of singers with a high level of ability and desire for a quality choral experience. The group performs a wide variety of styles and genres of choral music. Emphasis is placed on a cappella singing and the technical skill necessary for excellence. Membership in this ensemble requires a major time commitment as this group performs frequently throughout the larger metropolitan area. This group is responsible for the Madrigal Dinner held in December. Madrigal Singers also participate in all concerts at the high school as well as ISSMA activities and invitational competitions. This group appears frequently at community and athletic events. Attendance at all rehearsals and performances is required for class credit. *Fees include new music, transportation, dry cleaning and, costume rental and participation in the ensemble. Each student will be responsible for providing their own Madrigal Dinner costuming. This group also performs as the Show Choir. All students will learn and perform a variety of dance styles and songs for a competitive show. Three to four competitions will be scheduled for the show choir. Students must have a 2.0 GPA to audition for Madrigal Singers.

ADVANCED CHORUS - STARLIGHT VOICES

Course Number: 7961-7962 **Grade 10-12**

FULL YEAR 2 Credits

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

AUDITION REQUIRED, Treble voices only.

Prerequisite: Teacher Recommendation Required

Students may receive one (1) credit in Physical Education (PE I or II).

Starlight Voices is a select group of treble voices with a high level of singing and dancing ability. Selections into this group will be based on singing and dancing proficiency, congeniality, and Teacher Recommendation. The choir will perform for community events, school concerts, and competitions. Attendance at all rehearsals and performances is a requirement for earning course credit. One bi-weekly sectional is required for this course. Students must have a 2.0 GPA to audition for Starlight Voices. A 2.0 GPA must be maintained throughout the year to continue performing with the ensemble. Fees will be assessed for new music, transportation, dry cleaning, costume rental, and participation. Students will be asked to purchase their own dance shoes, jewelry, and other accessories.

MUSIC ELECTIVES

PIANO AND ELECTRONIC KEYBOARD

Course Number: 765

Grade 10-12

ONE SEMESTER

1 Credit

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course
Piano and Electronic Keyboard is based on the Indiana Academic Standards for High School Music Technology and Instrumental Music. Students taking this course are offered keyboard classes in order to develop music proficiency and musicianship. Students perform with proper posture, hand position, fingering, rhythm, and articulation; compose and improvise melodic and harmonic material; create and perform simple accompaniments; listen to, analyze, sight-read, and study a variety of keyboard literature; study the elements of music as exemplified in a variety of styles; and make interpretive decisions.

MUSIC THEORY AND COMPOSITION

Course Number: 793-794

Grade 10-12

FULL YEAR

2 Credits

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

Prerequisite: Teacher Recommendation if not in band, choir, or orchestra.

Music Theory and Composition is based on the Indiana Academic Standards for Music and standards for this specific course. Students develop skills in music analysis and learn about various musical paradigms. They develop ear training and dictation skills, compose works that illustrate mastered concepts, understand harmonic structures and analysis, understand different types of scales, study a wide variety of musical styles, study traditional and nontraditional music notation as tools for musical composition, and receive detailed instruction in other basic elements of music.

MUSIC THEORY, ADVANCED PLACEMENT

Course Number: 7931-7932

Grade 11-12

FULL YEAR

2 Credits

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

Prerequisite: Completion of Music Theory and Composition or Teacher Recommendation.

This is a grade weighted course. Students must receive a grade of C- or higher to receive a grade weight. Students are required to take the Advanced Placement exams in May in order to receive the grade weight.

Music Theory, Advanced Placement is a course based on the content established by the College Board. Music Theory is intended for secondary school students who have completed music studies comparable to a first-year college course in music theory. This course should integrate aspects of melody, harmony, texture, rhythm, form, musical analysis, elementary composition, and, to some extent, history and style. The student's ability to read and write musical notation is fundamental to this course, and it is also assumed that the student has acquired at least basic performance skills in voice or on an instrument

MUSIC APPRECIATION: SCHOOL OF ROCK

Course Number: 7935

Grades 9-12

ONE SEMESTER

1 Credit

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course
School of Rock is open to all students, regardless of musical background. Students in this class will receive instruction that is designed to explore the history and foundational elements of two major musical genres: Rock and Roll and Hip-Hop. In addition to fundamental musical terminology, students will study formative and influential musical artists, as well as the progression and evolution of this music as it relates to social and historical context. Activities will include active listening and analysis, evaluation of performances, written and verbal presentations, and several creative projects throughout the course of the semester.

FINE ARTS: THEATRE ARTS

THEATRE ARTS 1

Course Number: 173

Grade 9-12

ONE SEMESTER

1 Credit

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course
Theatre Arts is based on the Indiana Academic Standards for Theatre. Students enrolled in Theatre Arts read and analyze plays, create scripts and theatre pieces, and develop acting skills. These activities incorporate elements of theatre history, culture, analysis, response, creative process, and integrated studies. Additionally, students explore career opportunities in the theatre, attend and critique theatrical productions, and recognize the responsibilities and the importance of individual theatre patrons in their community.

ADVANCED THEATRE ARTS

Course Number: 183

Grade 10-12

ONE SEMESTER

1 Credit

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

Prerequisite: Theatre Arts or Teacher Recommendation

Instruction in this course builds upon the skills developed in the Theatre Arts course. Activities enable students to: improvise dialogue which produces characterizations in a variety of settings and forms; identify the physical, social, and psychological dimensions and qualities of characters in texts of plays; create consistent characters from a variety of theatrical works, either in class or in informal productions, demonstrating effective management of emotions as an individual and as a character; construct personal meanings from a variety of performances, including the self-evaluation of personal work, which leads to further development of various skills and abilities; write scripts for theatre, film, or television, in both traditional and new forms; demonstrate analytical skills by explaining roles, comparing various forms of artistic expression and interpretation, and discussing their relationship to cultural values and historical contexts. This is a one-semester class for the student who is interested in further experience in theatre. The focus will be on preparing and presenting a program of one-act plays complete with scenery, costumes, sound, lights, and makeup.

TECHNICAL THEATRE

Course Number: 184

Grade 9-12

ONE SEMESTER

1 Credit

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course
Technical Theatre is based on the Indiana Academic Standards for Theatre. Students enrolled in Technical Theatre actively engage in the process of designing, building, managing, and implementing the technical aspects of a production. These activities should incorporate elements of theatre history, culture, analysis, response, creative process, and integrated studies. Additionally, students explore career opportunities in the theatre, attend and critique theatrical productions, and recognize the responsibilities and the importance of individual theatre patrons in their community.

ADVANCED TECHNICAL THEATRE

Course Number: 188

Grades 10-12

ONE SEMESTER

1 Credit

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

Prerequisite: Technical Theatre

Advanced Technical Theatre is based on the Indiana Academic Standards for Theatre. Students enrolled in Advanced Technical Theatre actively lead and supervise in the process of designing, building, managing, programming, drafting, and implementing the technical aspects of a production. These activities should incorporate elements of theatre history, culture, analysis, response, creative process, and integrated studies. Additionally, students investigate technical theatre careers then develop a plan for potential employment or further education through audition, interview or presentation of a portfolio. Students also attend and critique theatrical productions and volunteer to support theatre in their community.

FINE ARTS: VISUAL ARTS

TYPICAL VISUAL ARTS COURSE PROGRESSION		
	CORE 40 Designation	Academic Honors Designation
9TH	Select One: Introduction to 2D Art or Introduction to 3D Art	Select One Through Two: Ceramics 1 Digital Design 1 Drawing 1 Introduction to 2D Art Introduction to 3D Art Printmaking Sculpture 1
10TH	Select One: Introduction to 2D Art or Introduction to 3D Art	Select One Through Three: AP Art History Ceramics 1 Ceramics 2 Digital Design 1 Digital Design 2 Drawing 1 Drawing 2 Introduction to 2D Art Introduction to 3D Art Painting 1 Painting 2 Photography 1 Photography 2 Printmaking Sculpture 1 Sculpture 2
11th and 12th	Select One: Introduction to 2D Art or Introduction to 3D Art	Select One Through Four: Advanced 3D Art Art History Advanced Placement Ceramics 1 Ceramics 2 Digital Design 1 Digital Design 2 Drawing 1 Drawing 2 Introduction to 2D Art Introduction to 3D Art Painting 1 Painting 2 Photography 1 Photography 2 Printmaking Sculpture 1 Sculpture 2 Studio Art Advanced Placement 2D Design/Drawing Studio Art Advanced Placement 3D Design

INTRODUCTION TO TWO-DIMENSIONAL ART

Course Number: 601

Grade 9-12

ONE SEMESTER

1 Credit

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course
 Students who enroll in Intro to Two-Dimensional Art may not enroll in Intro to Three-Dimensional Art.
 Students will create flat works of art using pencil, charcoal, pastel, marker, and or paint. They will draw from life, reference images, and or their imagination. This introductory course will provide students with an overview of the visual arts and the tools necessary to succeed in subsequent art courses. They will reflect

CERAMICS 2

Course Number: 609

Grade 10-12

ONE SEMESTER

1 Credit

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

Prerequisite: Ceramics 1

This intermediate course with an emphasis on throwing pots on the potter's wheel will explore new and various techniques for wheel throwing that will allow the students to make larger and more complex pieces. Hand building techniques (the use of slabs and coils) will also be reviewed and students will be encouraged to incorporate them into their wheel thrown pieces. The students will also refine the techniques learned in the beginner's class so that their results will be more consistent and aesthetically pleasing. Decorating with underglazes and more sophisticated glazing techniques will be introduced. The students will acquire a better understanding of the nature of clay, glazes, and ceramic processes and equipment.

DIGITAL DESIGN 1

Course Number: 619

Grade 9-12

ONE SEMESTER

1 Credit

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

Prerequisite: Intro to Two or Three-Dimensional Art

Students will learn the program basics of Adobe Photoshop and Adobe Illustrator. Students will create fine art images, advertisements, and design pieces utilizing these two programs. The student's previous knowledge of the elements and principals of design will be expanded upon in this course. Students will reflect upon and refine their work, explore cultural and historical connections, and analyze, interpret, theorize, and make informed judgments about their artwork.

DIGITAL DESIGN 2 CC/IT VISC 101*

Course Number: 625

Grade 10-12

ONE SEMESTER

1 Credit

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

Prerequisite: Digital Design 1

Dual Credit available through Ivy Tech

This is a grade weighted course. Students must have qualifying test scores, take the course for college credit, and receive a grade of C- or higher to receive a grade weight.

Students will expand upon their program knowledge of Adobe Photoshop and Adobe Illustrator. They will create fine art images, advertisements, and design pieces using both traditional and contemporary design techniques. Students will work with computer software, digital drawing tablets, digital cameras, scanners, and printers to create their work. The student's previous knowledge of the elements and principals of design will be expanded upon in this course as students continue to reflect upon and refine their work to make informed judgments.

DRAWING 1

Course Number: 605

Grade 9-12

ONE SEMESTER

1 Credit

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

Prerequisite: Intro to Two or Three-Dimensional Art

Students will use a variety of drawing media such as charcoal, pencil, pen, brush/ink, pastel and color while exploring basic drawing techniques and skills. An emphasis is placed on developing the ability 'to see', to focus on the observation of three-dimensional forms and translate this to the two-dimensional picture plane. Students work on a variety of exercises and assignments designed to enhance this process. This involves working from still-life and the model. Basic approaches include mark-making, line quality, value, volume, toning, texture and the various methods that emphasize spatial qualities. Compositional strategies are also covered.

DRAWING 2

Course Number: 610

Grade 10-12

ONE SEMESTER

1 Credit

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

Prerequisite: *Drawing 1*

Students will build from the knowledge gained in Drawing 1 as they continue to improve their ability to draw from observation and also their own creative thoughts and ideas. Emphasis will be on students making informed judgments and decisions concerning their work as they continue to master technique in a variety of media such as graphite, charcoal, pencil, pen, brush/ink, pastel, and color. Students will analyze, interpret, theorize, and make informed judgments about their art as they work to produce a portfolio of quality works

PAINTING 1

Course Number: 606

Grade 10-12

ONE SEMESTER

1 Credit

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

Prerequisite: *Intro to Two or Three-Dimensional Art and Drawing 1*

Students will explore the properties of watercolor and acrylic paint. A broad range of subject matter will be examined including but not limited to realism, abstraction, portraiture, landscape, and still life. Art historical connections will be made through research of various paint mediums and subject matters. Students will analyze, interpret, theorize, and make informed judgments about artwork and engage in the production of portfolio quality works.

PAINTING 2

Course Number: 611

Grade 10-12

ONE SEMESTER

1 Credit

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

Prerequisite: *Painting 1*

Students will expand upon their knowledge of painting techniques with emphasis on working with and understanding the properties of oil paint. A variety of subject matter and painting styles will be explored. Art historical connections will be made and contemporary painting styles will be explored as students work to improve upon their previous painting skills. Students will analyze, interpret, theorize, and make informed judgments about artwork and engage in the production of portfolio quality works.

PHOTOGRAPHY 1

Course Number: 626

Grade 10-12

ONE SEMESTER

1 Credit

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

Prerequisite: *Intro to Two or Three-Dimensional Art*

Requirement: Students are encouraged to provide their own digital camera, camera phone, or tablet camera, a 32GB SD Card, and internet access for at-home assignments.

Students in Photography 1 will learn the basic principles of exposure, composition, and creative picture-taking. Students will explore digital photography using their own digital camera with manual functions or a BCSC provided camera. Students will photograph subjects outdoors to learn natural lighting techniques and indoors to learn studio lighting. Students will explore the world of editing by using Adobe Lightroom to digitally manipulate their photography. By the end of the class the students will have created a portfolio of quality works while engaging in sequential learning experiences that encompass the elements and principles of art, art history, art criticism, and aesthetics.

PHOTOGRAPHY 2

Course Number: 628

Grade 10-12

ONE SEMESTER

1 Credit

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

Prerequisite: *Photography 1*

Requirement: Students are encouraged to provide their own digital camera, camera phone, or tablet camera, a 32GB SD Card, and internet access for at-home assignments and a DSLR camera, 12 megapixel or higher, is strongly encouraged.

Students in Photography 2 will expand on previously learned concepts from Photography 1 including: digital photography, Adobe Light room, outdoor lighting, and indoor lighting. Emphasis will be placed on creating a concentrated body of work, quality pieces, and expanding on the student's previous knowledge of lighting and composition. Students will also edit photos using Adobe Photoshop. Students will engage in learning experiences that encompass the elements and principles of art, art history, art criticism, and aesthetics.

PRINTMAKING

Course Number: 633

Grade 9-12

ONE SEMESTER

1 Credit

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective

Prerequisite- Intro to 2D Art or Intro to 3D Art, grades 9-12

Students in printmaking engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production that lead to the creation of portfolio quality works. Students apply media, techniques, and processes with sufficient skill to communicate intended meaning. They create abstract and realistic prints using a variety of materials including but not limited to linocut, woodcut, stencil, silkscreen, photo silkscreen, and mono print. They utilize processes on both two-dimensional and three-dimensional surfaces.

SCULPTURE 1

Course Number: 607

Grade 9-12

ONE SEMESTER

1 Credit

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

Prerequisite: Intro to Two or Three-Dimensional Art

In beginning sculpture students are introduced to materials and methods of working with three-dimensional forms. This course gives a historical overview of sculpture and covers various aspects of 3-dimensional works, such as the production of simple and complex forms, subtractive work, contextual considerations and found objects. Students are introduced to hand and power tools along with safe shop practices. Mediums and methods include plaster, clay, stone, metal, wood, casting techniques, wire forms and welding. Regular assessment promotes a solid theoretical and practical/technical understanding of the process of making sculptural forms.

SCULPTURE 2

Course Number: 617

Grade 10-12

ONE SEMESTER

1 Credit

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

Prerequisite: Sculpture 1

Advanced sculpture students are familiar to materials and methods of working with three-dimensional forms. This course gives a review of sculpture and covers various aspects of 3-dimensional works, such as the production of simple and complex forms, subtractive work, contextual considerations, installations, and found objects. Mediums and methods include plaster, clay, stone, metal, wood, casting techniques, wire forms and welding. Regular assessment promotes a solid theoretical and practical/technical understanding of the process of making sculptural forms.

STUDIO ART, ADVANCED PLACEMENT 2D DESIGN or DRAWING

Course Number: 623-624

Grade 11-12

FULL YEAR

2 Credits

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

Prerequisite: Intro to Two or Three-Dimensional Art, Drawing I, a third art course, and Teacher Recommendation.

This is a grade weighted course. Students must receive a grade of C- or higher to receive a grade weight. Students are also required to take the Advanced Placement exams in May in order to receive the grade weight.

This is a yearlong course designed for students who want to pursue a visual arts career or who are committed to furthering their skill and passion in 2D art. Students will create a college level portfolio of 20 works of art using a variety of 2D media such as graphite, colored pencil, acrylic paint, oil paint, Adobe Photoshop, Adobe Illustrator, and or Digital Photography. The work created during this course is heavily student directed and as such students must be able to meet strict deadlines and to work beyond the confines of the classroom. This course involves a significant commitment of time and energy and students must work outside the classroom to complete the portfolio requirements at a collegiate level.

STUDIO ART, ADVANCED PLACEMENT 3D DESIGN

Course Number: 6201-6202 Grade 11-12

FULL YEAR 2 Credits

Core 40, AHD, & THD Fine Art Requirement; Core 40, AHD, & THD elective & directed elective course

Prerequisite: Intro to Two or Three-Dimensional Art, two additional art courses and Teacher Recommendation.

This is a grade weighted course. Students must receive a grade of C- or higher to receive a grade weight. Students are also required to take the Advanced Placement exams in May in order to receive the grade weight.

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.

MATHEMATICS

Those students who desire to take five years of mathematics may find it necessary to "double up"; that is, take two mathematics courses in one year. This doubling should take place after the freshman year has been successfully completed, and, then only with Teacher Recommendation.

PREREQUISITES

The Brownsburg High School mathematics curriculum is defined by successful completion of sequential math courses. Mastery of sequential mathematical skills and concepts is of primary importance. Algebra I is the foundation of the mathematics curriculum. To advance to the next sequential course, students must demonstrate proficiency in Algebra I concepts.

RECOMMENDATIONS

In all mathematics courses the teachers utilize their best professional judgment and recommend, to each student, the mathematics course for the following year. Prerequisites are also to be considered in the Teacher Recommendation. We emphasize to the students that prerequisites, including grade requirements, and Teacher Recommendations are critical in placement in appropriate courses. **Teacher Recommendations are subject to change based on changes in student performance following the original recommendation.**

TYPICAL MATH COURSE PROGRESSION			
	CORE 40 Designation	Academic Honors Designation	AHD w/ Honors Math Focus
9TH	<ul style="list-style-type: none"> • Algebra 	<ul style="list-style-type: none"> • Geometry • Geometry, Honors 	<ul style="list-style-type: none"> • <i>Choose one:</i> • Algebra 2 • Honors Algebra 2 (most typical of this track)
10TH	<ul style="list-style-type: none"> • Geometry • Geometry, Honors 	<ul style="list-style-type: none"> • <i>Choose one:</i> • Algebra 2 • Honors Algebra 2 	<ul style="list-style-type: none"> • AP Stats
11TH	<ul style="list-style-type: none"> • Algebra 2 	<ul style="list-style-type: none"> • <i>Choose one:</i> • Pre-Calculus • Honors Pre-Calculus AB • Honors Pre-Calculus BC • Finite Math (typically taken by seniors) 	<ul style="list-style-type: none"> • <i>Choose one:</i> • Honors Pre-Calculus AB • Honors Pre-Calculus BC
12TH	<ul style="list-style-type: none"> • <i>Choose one:</i> • Finite Mathematics (non-Dual Credit) • Pre-Calculus • (S1)Dual Credit Finite • (S2)Dual Credit College Algebra 	<ul style="list-style-type: none"> • <i>Choose one:</i> • AP Calculus AB • AP Calculus BC • AP Stats • (S1)Dual Credit Finite • (S2)Dual Credit College Algebra <i>OR</i> • Dual Credit Applied Calculus 	<ul style="list-style-type: none"> • <i>Choose one:</i> • AP Calculus AB • AP Calculus BC

ALGEBRA I

Course Number: 209-210

Grade 9-12

FULL YEAR

2 Credits

Core 40, AHD, & THD Mathematics course

Algebra I formalizes and extends the mathematics that students learned in the middle grades. Five critical areas comprise Algebra I: Relations and Functions; Linear Equations and Inequalities; Quadratic and Nonlinear Equations; Systems of Equations and Inequalities; and Polynomial Expressions. The critical areas deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and students engage in methods for analyzing, solving, and using quadratic functions. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

GEOMETRY

Course Number: 211-212

Grade 9-12

FULL YEAR

2 Credits

Core 40, AHD, & THD Mathematics course

Prerequisite: Algebra I

Geometry provides students with experiences that deepen the understanding of two- and three-dimensional objects and their properties. Deductive and inductive reasoning as well as investigative strategies in drawing conclusions are stressed. Properties and relationships of geometric objects include the study of the following: (1) points, lines, angles and planes; (2) polygons, with a special focus on quadrilaterals, triangles, right triangles; (3) circles; and (4) polyhedral and other solids. An understanding of proof and logic is developed.

GEOMETRY, HONORS

Course Number: 213-214

Grades 9-10

FULL YEAR

2 Credits

Core 40, AHD, & THD Mathematics course

Prerequisite: B- or higher in Algebra I and Teacher Recommendation

Geometry provides students with experiences that deepen the understanding of two- and three-dimensional objects and their properties. Deductive and inductive reasoning as well as investigative strategies in drawing conclusions are stressed. Properties and relationships of geometric objects include the study of the following: (1) points, lines, angles, and planes; (2) polygons, with a special focus on quadrilaterals, triangles, and right triangles; (3) circles; and (4) polyhedral and other solids. An understanding of proof and logic is developed. This course enriches the same material as Geometry with more emphasis on theory and a higher degree of difficulty in problem solving and independent study. This course is proof based and includes additional topics such as constructions, probability, coordinate geometry, transformations, and formal logic.

ALGEBRA II

Course Number: 215-216

Grade 9-12

FULL YEAR

2 Credits

Core 40, AHD, & THD Mathematics course

Prerequisite: Algebra I and Geometry

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

ALGEBRA II, HONORS

Course Number: 2171-2172

Grade 9-12

FULL YEAR

2 Credits

Core 40, AHD, & THD Mathematics course

Prerequisite: B or higher in Algebra I and Geometry and Teacher Recommendation

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

This course enriches the same material as Algebra II with more emphasis on theory, a higher degree of difficulty in problem solving and independent study. This course also includes additional topics such as matrices, conic sections, and basic trigonometry.

PRE-CALCULUS/TRIGONOMETRY

Course Number: 251-252

Grade 10-11

Course Number: 257-258

Grade 12

FULL YEAR

2 Credits

Core 40, AHD, & THD Mathematics course

Prerequisite: Recommended C in Geometry and Algebra II and Teacher Recommendation

TI 83 or TI 84 graphing calculator required for this course.

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

PRE-CALCULUS/TRIGONOMETRY, HONORS for the AB Calculus Student

Course Number: 2521-2522

Grade 10-12

PRE-CALCULUS/TRIGONOMETRY, HONORS for the BC Calculus Student

Course Number: 2543-2544

Grade 10-12

FULL YEAR

2 Credits

Core 40, AHD, & THD Mathematics course

Prerequisite: Teacher Recommendation

TI 83 or TI 84 graphing calculator required for this course.

Pre-Calculus/Trig Honors AB blend the concepts and skills that must be mastered before enrollment in a college-level course. The course includes the study of (1) relations and functions, (2) exponential and logarithmic functions, (3) trigonometry in triangles, (4) trigonometric functions, (5) trigonometric identities and equations, (6) polar coordinates and complex numbers, (7) sequences and series, and (8) data analysis. This course will cover the preceding topics, in greater depth, with a higher degree of difficulty in problem solving and theory than Regular Pre-Calculus.

Pre-Calculus/Trig Honors BC will include the additional topics of limits and an introduction to the derivative. This course is the pre-requisite for AP Calculus BC. This sequence of classes would be Pre-AP Algebra II Honors, AP Statistics, Pre-Calculus Honors BC, AP Calculus BC.

FINITE MATHEMATICS (Non-Dual Credit)

Course Number: 2181-2182

Grade 11-12

FULL YEAR

2 Credits

Core 40, AHD, & THD Mathematics course

Prerequisite: Algebra II & Teacher Recommendation

Finite Mathematics is an umbrella of mathematical topics. It is a course designed for students who will undertake higher-level mathematics in college that may not include calculus.

Topics include: (1) Linear Programming, (2) Matrices, (3) Bin-Packing, (4) Graph Theory, (5) Financial Mathematics, (6) Set Theory, (7) Probability and Counting Techniques, (8) Probability Distributions and Statistics, (9) Markov Chains.

ADVANCED MATHEMATICS, CC/VU M111, FINITE MATH

Course Number: 2421 **Grade 11-12**

ONE SEMESTER (FALL) 1 Credit

Core 40, AHD, & THD Mathematics course

Prerequisite: Grade of C or higher in Algebra II & Teacher Recommendation; Qualifying Math score on the Vincennes University placement test – students will be tested in March

Core Transfer Library (CTL), Dual credit course through Vincennes University

Tuition fees waived for students on free-reduced lunch.

This is a grade weighted course. Students must receive a grade of C or higher to receive a grade weight.

Students are also required to enroll and pay for dual credit in order to receive the grade weight.

TI 83 or TI 84 graphing calculator required for this course.

Systems of equations, matrices, determinants, applications to linear systems, and linear programming. For students in social sciences, business, and other applied areas.

ADVANCED MATHEMATICS, CC/BSU M161, APPLIED CALCULUS

Course Number: 2422 **Grade 11-12**

ONE SEMESTER (SPRING) 1 Credit

Core 40, AHD, & THD Mathematics course

Prerequisite: Grade of C or higher in Pre-Calculus & Teacher Recommendation; BSU Prerequisite 3.0

Core Transfer Library (CTL), Dual credit course through Ball State University

Tuition fees waived for students on free-reduced lunch.

This is a grade weighted course. Students must receive a grade of C or higher to receive a grade weight.

Students are also required to enroll and pay for dual credit in order to receive the grade weight.

TI 83 or TI 84 graphing calculator required for this course.

Discussion of limits, derivatives, differentials, and definite and indefinite integrals. Focuses on the application of these topics in the applied sciences. *No placement testing required for M161.*

ADVANCED MATHEMATICS, CC/VU M102, COLLEGE ALGEBRA

Course Number: 2426 **Grade 11-12**

ONE SEMESTER (SPRING) 1 Credit

Core 40, AHD, & THD Mathematics course

Prerequisite: Grade of B or higher in Algebra II & Teacher Recommendation

Core Transfer Library (CTL), Dual credit course through Vincennes University

Tuition fees waived for students on free-reduced lunch.

This is a grade weighted course. Students must receive a grade of C or higher to receive a grade weight.

Students are also required to enroll and pay for dual credit in order to receive the grade weight.

TI 83 or TI 84 graphing calculator required for this course.

Includes the study of functions (including polynomial, rational, exponential, and logarithmic) and their graphs; includes transformations of functions, operations on functions, solution methods for linear and nonlinear equations, systems, and inequalities, and selected topics from analytic geometry. Utilizes graphing technology.

STATISTICS, ADVANCED PLACEMENT

Course Number: 239-240 **Grade 9-12**

FULL YEAR 2 Credits

Core 40, AHD, & THD Mathematics course

Prerequisite: Grade of B- or higher in Algebra II or C- or higher in Algebra II Honors & Teacher Recommendation

This is a grade weighted course. Students must receive a grade of C- or higher to receive a grade weight.

Students are required to take the Advanced Placement exams in May in order to receive the grade weight.

TI 83 or TI 84 graphing calculator required for this course.

Students will be introduced to the major concepts for collecting, analyzing, and drawing conclusions from data. Students will be exposed to the concept of exploring data. Students will collect, organize and make conclusions about various data. Students will plan a study; decide what to measure and how to go about measuring the data. Students will produce models using probability theory and simulation and confirm their models by using statistical inference.

CALCULUS AB, ADVANCED PLACEMENT

Course Number: 229-230 **Grade 11-12**

FULL YEAR 2 Credits

Core 40, AHD, & THD Mathematics course

Prerequisite: Grade of B- or higher in Pre-Calculus or Grade of C or higher in Honors Pre-Calculus; Students will be given a placement exam in May of the previous school year to further aid in determining the best placement and Teacher Recommendation.

This is a grade weighted course. Students must receive a grade of C- or higher to receive a grade weight. Students are required to take the Advanced Placement exams in May in order to receive the grade weight. TI 83 or TI 84 graphing calculator required for this course.

Calculus AB is a course that provides students with content established by the College Board. Topics include: 1) limits, 2) derivatives, 3) application of derivatives, 4) integrals, and 5) application of integrals.

AP Calculus AB is equivalent to one and one-half semesters of a college level calculus for mathematics or engineering majors. AP Calculus also satisfies the calculus requirements for college business and life science majors

CALCULUS BC, ADVANCED PLACEMENT

Course Number: 2341-2342 **Grade 11-12**

FULL YEAR 2 Credits

Core 40, AHD, & THD Mathematics course

Prerequisite: Honors Pre-Calculus BC or AP Calculus AB & Teacher Recommendation

This is a grade weighted course. Students must receive a grade of C- or higher to receive a grade weight. Students are required to take the Advanced Placement exams in May in order to receive the grade weight. TI 83 or TI 84 graphing calculator required for this course.

Calculus BC a course that provides students with the content established by the College Board. Topics include: (1) functions, graphs, and limits, (2) derivatives, (3) integrals, and (4) polynomial approximations and series. The use of graphing technology is required. AP Calculus BC is equivalent to two semesters of college level calculus.

PHYSICAL EDUCATION AND HEALTH

- *Two semesters of PE and one semester of Health are required for graduation.*

PHYSICAL EDUCATION I & II

Course Number: 8011-8101 **Grade 9**
FULL YEAR 2 Credits

Fulfills Core 40, AHD, & THD Physical Education Requirement

Physical Education I emphasizes health-related fitness and developing the skills and habits necessary for a lifetime of activity. This program includes skill development and the application of rules and strategies of complex difficulty in at least three of the following different movement forms: (1) health-related fitness activities (cardio respiratory endurance, muscular strength and endurance, flexibility, and body composition), (2) aerobic exercise, (3) team sports, (4) individual and dual sports, (5) gymnastics, (6) outdoor pursuits, (7) self-defense, (8) aquatics, (9) dance, and (10) recreational games. An aquatics unit is included in PE I. Ongoing assessment includes both written and performance-based skill evaluations.

Physical Education II emphasizes a personal commitment to lifetime activity and fitness for enjoyment, challenge, self-expression, and social interaction. This course provides students with opportunities to achieve and maintain a health-enhancing level of physical fitness and increase their knowledge of fitness concepts. It includes at least three different movement forms without repeating those offered in Physical Education I. Movement forms may include: (1) health-related fitness activities (cardio respiratory endurance, muscular strength and endurance, flexibility, and body composition), (2) aerobic exercise, (3) team sports, (4) individual and dual sports, (5) gymnastics, (6) outdoor pursuits, (7) self-defense, (8) aquatics, (9) dance, and (10) recreational games. Ongoing assessment includes both written and performance-based skill evaluations. This course will also include a discussion of related careers. An aquatics unit is included in PE II. A one piece swimming suit is required. Students with special medical or religious needs must notify the counselor during pre-enrollment of the need. The instructor will plan a program of activities to meet course objectives.

PHYSICAL EDUCATION, ATHLETIC DEVELOPMENT

Course Number: 8013-8014 **Grade 9**
FULL YEAR 2 Credits

Fulfills Core 40, AHD, & THD Physical Education Requirement

Prerequisite: BHS Athletic team participation on an IHSAA sanctioned school sports team and BHS Team Coach Recommendation.

Physical Education, Physical Conditioning incorporates the components of Physical Education I & II (8011-8101) with an additional emphasis on weight training, speed, and agility.

ALTERNATIVE PE I & II

Course Number: 8015 PE I **Grade 9**
ONE SEMESTER 1 Credit

Course Number: 8016 PE II **Grade 9-10**
ONE SEMESTER 1 Credit

Fulfills Core 40, AHD, & THD Physical Education Requirement

BHS Alternative PE Credit Policy

Credits will not be granted for any previous school year. A **complete** season of the following student activities has been approved for Alternative PE Credit:

- Any BHS sponsored IHSAA sanctioned sport (Freshman athletes are encouraged to enroll in the PE Athletic Development course during the freshman year)
- BHS Cheerleading
- Marching Band
- Winter Guard
- Starlight Voices, Bella Voce, and Dog Pound competitive show choir.

HEALTH & WELLNESS

Course Number: 803

Grade 10

ONE SEMESTER

1 Credit

Fulfills Core 40, AHD, & THD Health Education requirement

High school health education provides the basis for continued methods of developing knowledge, concepts, skills, behaviors, and attitudes related to student health and well-being. This course includes the major content areas in a planned, sequential, comprehensive health education curriculum as expressed in the Indiana Health Education Standards Guide: (1) Growth and Development; (2) Mental and Emotional Health; (3) Community and Environmental Health; (4) Nutrition; (5) Family Life; (6) Consumer Health; (7) Personal Health; (8) Alcohol, Tobacco, and Other Drugs; (9) Intentional and Unintentional Injury; and (10) Health Promotion and Disease Prevention. Students are provided with opportunities to explore the effect of health behaviors on an individual's quality of life. This course assists students in understanding that health is a lifetime commitment by analyzing individual risk factors and health decisions that promote health and prevent disease. Students are also encouraged to assume individual responsibility for becoming competent health consumers. A variety of instructional strategies, including technology, are used to further develop health literacy.

ADVANCED PHYSICAL FITNESS

Course Number: 8041-8042

Grade 9-12

May be taken as ONE SEMESTER or FULL YEAR

1 Credit/Sem

Core 40, AHD, & THD elective course

Prerequisite: BHS Athletic team participation on an IHSAA sanctioned school sports team and BHS Team Coach Recommendation.

Note: A maximum of eight credits may be earned in the advanced Physical Education courses

Physical Fitness is an elective course. Daily participation and proper dress is required. Failure to comply may result in removal from the class. Physical fitness is designed to improve fitness levels and knowledge about fitness and training. Using a variety of cardiovascular devices (swimming and aqua jogging included) resistance exercises, plyometrics, yoga, and fitness routines, students will learn how to perform resistance exercises properly and gain first-hand knowledge on how to create productive routines that are safe, progressive and well balanced. Students will experience a variety of activities designed to increase cardiovascular fitness and muscular strength. These programs will be designed to improve body composition on an individual basis through exercise and diet.

ADVANCED ATHLETIC DEVELOPMENT

Course Number: 8061-8062

Grade 10-12

Course Number: 8091-8092

Grade 10-12

May be taken as ONE SEMESTER or FULL YEAR

1 Credit/Sem

Core 40, AHD, & THD elective course

Prerequisite: BHS Athletic team participation on an IHSAA sanctioned school sports team and BHS Team Coach Recommendation.

Note: A maximum of eight credits may be earned in the advanced Physical Education courses

Advanced athletic development provides an emphasis on weight training, speed, and agility development.

ADVANCED PE - TEAM SPORTS

Course Number: 8073-8074

Grade 10-12

May be taken as ONE SEMESTER or FULL YEAR

1 Credit/Sem

Prerequisite: Grade of C in PE I & II or Teacher Recommendation

Note: A maximum of eight credits may be earned in the advanced Physical Education courses

Core 40, AHD, & THD elective course

This is a co-educational course designed for students that wish to participate in physical activity beyond their freshman year. Daily participation and proper dress is required. Failure to comply may result in removal from the course. This course covers cardiovascular fitness and the fundamentals of games including, but not limited to: basketball, soccer, flag football, volleyball, softball, floor hockey, and water sports.

PROJECT LEAD THE WAY

PLTW Course Progression			
	Biomedical Science	Engineering	Computer Science
9 th	<ul style="list-style-type: none"> Principles of Biomedical Sciences 	<ul style="list-style-type: none"> Introduction to Engineering Design 	<ul style="list-style-type: none"> Introduction to Computer Science AP Computer Science Principles
10 th	<ul style="list-style-type: none"> Human Body Systems 	<ul style="list-style-type: none"> Principles of Engineering 	<ul style="list-style-type: none"> Introduction to Computer Science AP Computer Science Principles Cybersecurity
11 th	<ul style="list-style-type: none"> Medical Interventions 	<ul style="list-style-type: none"> Digital Electronics Civil Engineering and Architecture 	<ul style="list-style-type: none"> AP Computer Science Principles AP Computer Science A Cybersecurity
12 th	<ul style="list-style-type: none"> Biomedical Innovations 	<ul style="list-style-type: none"> Engineering Design and Development 	<ul style="list-style-type: none"> AP Computer Science Principles AP Computer Science A Cybersecurity

Note: If a student is not able to begin a program in the 9th grade it is possible to begin in the 10th grade and take two PLTW classes during the 11th or 12th grade.

**The following Biomedical Sciences courses may also be used to fulfill Science elective requirements.
 +Students who complete Principles of Biomedical Sciences and Human Body Systems are not required to take Health and Wellness (No GPA or credit will be awarded for Health and Wellness).

PROJECT LEAD THE WAY: BIOMEDICAL SCIENCES

PRINCIPLES OF BIOMEDICAL SCIENCES (PBS)+**

Course Number: 5931-5932

Grade 9-10

FULL YEAR

2 Credits

CORE 40, AHD, & THD Life Science, elective & directed elective course

College credit based on PLTW End of Course Assessment available through IUPUI - BIOL 10011 for students who matriculate to IUPUI – Does NOT qualify as a dual credit course for AHD or THD

Principles of Biomedical Science is a course that serves to provide foundational knowledge and skills in fields such as biology, anatomy and physiology, genetics, microbiology, and epidemiology, as well as engage students in how they can apply this content to real-world situations, cases, and problems such as solving a medical mystery case, diagnosing and treating a patient, or responding to a medical outbreak.

Through multiple problems and scenarios, the course challenges student to dive into the roles of various biomedical science professionals. This allows students to develop proficiency in laboratory and clinical

skills using real equipment, setting them up for success in college and career, and explore the vast range of careers in the biomedical sciences. Students will understand the integrated nature of multiple disciplines in the world as they engage in real-world cases and scenarios.

HUMAN BODY SYSTEMS (HBS)+**

Course Number: 5721-5722

Grade 10-12

FULL YEAR

2 Credits

CORE 40, AHD, & THD Life Science, elective & directed elective course

Prerequisite: Principles of Biomedical Sciences or Teacher Recommendation

College credit based on PLTW End of Course Assessment available through IUPUI - BIOL 10022 for students who matriculate to IUPUI – Does NOT qualify as a dual credit course for AHD or THD

Students examine the interactions of the structures in human body systems as they explore identity, power, movement, protections, and homeostasis in the body. Exploring science in action, students build organs and tissues on a skeleton; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration' and take on the roles of biomedical professionals to solve real-world medical cases.

MEDICAL INTERVENTIONS (MI)**

Course Number: 5811-5812

Grade 11-12

FULL YEAR

2 Credits

CORE 40, AHD, & THD Life Science, elective & directed elective course

Prerequisite: Principles of Biomedical Sciences, Human Body Systems or Anatomy and Physiology or Teacher Recommendation.

College credit based on PLTW End of Course Assessment available through IUPUI - BIOL 10033 for students who matriculate to IUPUI– Does NOT qualify as a dual credit course for AHD or THD

Medical Intervention is a course that studies medical practices including interventions to support humans in treating disease and maintaining health. Using a project-based learning approach, students will investigate various medical interventions that extend and improve quality of life, including gene therapy, pharmacology, surgery, prosthetics, rehabilitation, and supportive care. Students will also study the design and development of various interventions including vascular stents, cochlear implants, and prosthetic limbs. Lessons will cover the history of organ transplants and gene therapy with additional readings from current scientific literature addressing cutting edge developments. Using 3-D imaging software, students will design and build a model of a therapeutic protein. Students are encouraged to be independent thinkers and will gain both laboratory and research skills to prepare them for the capstone course.

BIOMEDICAL INNOVATIONS (BI)

Course Number: 5591-5592

Grade 12

FULL YEAR

2 Credits

CORE 40, AHD, & THD Life Science, elective & directed elective course

Prerequisite: Principles of Biomedical Sciences, Human Body Systems or Anatomy and Physiology, and Medical Interventions or Teacher Recommendation.

College credit based on PLTW End of Course Assessment available through IUPUI - BIOL 10014 for students who matriculate to IUPUI – Class does qualify as a dual credit course for AHD or THD.

In this research-based capstone course, students apply their knowledge and skills to answer questions or solve problems related to the biomedical sciences. Students design innovative solutions for the health challenges of the 21st century as they work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering and public health. They will complete an Independent research project which will allow them to explore various areas of the health care field. Throughout the course, students are expected to present their work to an adult audience.

PROJECT LEAD THE WAY: COMPUTER SCIENCE

INTRODUCTION TO COMPUTER SCIENCE (PLTW-ICS)

Course Number: 7203-7204

Grade 9-10

ONE SEMESTER

1 Credit

CORE 40, AHD, & THD Life Science, elective & directed elective course

Designed to be the first computer science course for students who have never programmed before, Introduction to Computer Science is an optional starting point for the PLTW Computer Science program. Students work in teams to create apps for mobile devices using MIT App Inventor®. They explore the impact of computing in society and build skills in digital citizenship and cybersecurity. Beyond learning the fundamentals of programming, students build computational-thinking skills by applying computer science to collaboration tools, modeling and simulation, and data analysis. In addition, students transfer the understanding of programming gained in App Inventor to text-based programming in Python® and apply their knowledge to create algorithms for games of chance and strategy.

COMPUTER SCIENCE PRINCIPLES (PLTW-CSP), ADVANCED PLACEMENT

Course Number: 5581-5582

Grade 9-12

FULL YEAR

2 Credits

CORE 40, AHD, & THD Life Science, elective & directed elective course

Prerequisite: Teacher Recommendation

This is a grade weighted course. Students must receive a grade of C- or higher to receive a grade weight. Students are required to take the Advanced Placement exams in May in order to receive the grade weight. In Computer Science Principles (CSP) students work in teams to develop computational thinking and solve problems. Projects and problems include app development, visualization of data, cybersecurity, and simulation. Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. Students practice problem solving with structured activities and progress to open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. Students with greater motivation, ability, or background knowledge will be challenged to work further.

COMPUTER SCIENCE A (PLTW-CSA), ADVANCED PLACEMENT

Course Number: 5583-5584

Grade 10-12

FULL YEAR

2 Credits

CORE 40, AHD, & THD elective & directed elective course

Prerequisite: Computer Science Principles (PLTW-CSP)

This is a grade weighted course. Students must receive a grade of C- or higher to receive a grade weight. Students are required to take the Advanced Placement exams in May in order to receive the grade weight. Additional textbook fees are assessed for this course.

AP Computer Science Applications builds on the basic skills learned in AP Computer Science Principles (CSP) to teach students authentic Android app development. Students analyze, adapt, and improve each other's programs while working primarily in Java™ and other industry-standard tools. Students continue to hone their communication and collaboration skills while learning to use a variety of tools. The primary goal of the course is to create independent-thinking app developers; every unit in this course builds on students' prior knowledge and skills until they are able to complete an app development cycle independently from the ground up.

COMPUTER SCIENCE III: CYBERSECURITY (PLTW)

Course Number: 5585-5586

Grade 10-12

FULL YEAR

2 Credits

Core 40, AHD, & THD elective & directed elective course

Prerequisite: Computer Science Principles (PLTW-CSP)

Cybersecurity introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve

problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.

PROJECT LEAD THE WAY: ENGINEERING

INTRODUCTION TO ENGINEERING DESIGN (IED)

Course Number: 5831-5832

Grade 9-12

FULL YEAR

2 Credits

CORE 40, AHD, & THD elective & directed elective course

College credit available upon admission and enrollment at Purdue, or dual credit through Ivy Tech - IVY DESN 101 (3 credits) and DESN 113 (3 credits), not in CTL (Core Transfer Library)

This is a grade weighted course for students who successfully enroll in dual credit.

In Introduction to Engineering Design, Students explore engineering tools and apply the engineering design process to solve engineering problems. Utilizing the activity, project, problem-based teaching and learning pedagogy, student's progress from completing structured activities to solving open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills.

Students apply systems thinking and consider various aspects of engineering design including material selection, human-centered design, manufacturability, and sustainability as they create mechanical solutions to problems. Students develop skills in technical representation and documentation, first using hand-sketching techniques and later through 3D computer modeling using a computer-aided design (CAD) application. As part of the design process, students produce precise 3D-printed engineering prototypes using an additive manufacturing process. Student-developed testing protocols drive decision-making and iterative design improvements.

PRINCIPLES OF ENGINEERING (POE)

Course Number: 5861-5862

Grade 10-12

FULL YEAR

2 Credits

CORE 40, AHD, & THD elective & directed elective course

Prerequisite: Grade of C or better in Algebra I & Introduction to Engineering Design or Teacher Recommendation.

College credit available upon admission and enrollment at Purdue, or when prerequisite is met. Dual credit (3 credits) through Ivy Tech - DESN-104, not in CTL (Core Transfer Library)

This is a grade weighted course for students who successfully enroll in dual credit.

POE is a broad-based survey course designed to help students understand the field of engineering technology and its career possibilities. Students will develop engineering problem solving skills that are involved in post-secondary education programs and engineering careers. They will explore various engineering systems and manufacturing processes. Students will also learn how engineers address concerns about social and political consequences of technological changes.

DIGITAL ELECTRONICS (DE)

Course Number: 5871-5872

Grade 11-12

FULL YEAR

2 Credits

CORE 40, AHD, & THD elective & directed elective course

Prerequisite: Introduction to Engineering Design (grade of C or better) and Principles of Engineering (grade of C or better) or Teacher Recommendation.

College credit available upon admission and enrollment at Purdue, or when prerequisite is met. Dual credit (3 credits) through Ivy Tech - EECT-112, not in CTL (Core Transfer Library)

This is a grade weighted course for students who successfully enroll in dual credit.

Digital Electronics Technology 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.

CIVIL ENGINEERING & ARCHITECTURE (CEA)

Course Number: 5911-5912 Grade 11-12

FULL YEAR 2 Credits

CORE 40, AHD, & THD elective & directed elective course

Prerequisite: Principles of Engineering and Introduction to Engineering Design or Teacher Recommendation.

College credit available upon admission and enrollment at Purdue, or when prerequisite is met. Dual credit (3 credits) through Ivy Tech – IVY DESN105, not in CTL (Core Transfer Library)

This is a grade weighted course for students who successfully enroll in dual credit.

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

ENGINEERING DESIGN AND DEVELOPMENT (EDD)

Course Number: 595-596 Grade 12

FULL YEAR 2 Credits

CORE 40, AHD, & THD elective & directed elective course

Prerequisite: Introduction to Engineering Design (grade of C or better) and Principles of Engineering (grade of C or better) and an additional PLTW Course (Digital Electronics or Civil Engineering and Architecture with a grade of C or better in each class) or Teacher Recommendation.

Engineering Design and Development (EDD) is the capstone course in the PLTW high school engineering program. It is an open-ended engineering research course in which students work in teams to design and develop an original solution to a well-defined and justified open-ended problem by applying an engineering design process. Students will perform research to select, define, and justify a problem. After carefully defining the design requirements and creating multiple solution approaches, teams of students select an approach, create, and test their solution prototype. Student teams will present and defend their original solution to an outside panel. While progressing through the engineering design process, students will work closely with experts and will continually hone their organizational, communication and interpersonal skills, their creative and problem-solving abilities, and their understanding of the design process.

SCIENCE

The following are suggested sequences of study. All final decisions should be made with the student's guidance counselor. All prerequisites must be met in order to enroll in any course.

TYPICAL SCIENCE COURSE PROGRESSION			
	CORE 40 Designation	Academic Honors Designation	AHD w/ Honors Science Focus
9TH	Biology I	Biology I, (Biology I: Honors)	<ul style="list-style-type: none"> • DC Chemistry *Honors Biology taken as 8 th grader
10TH	ICP	Choose one: <ul style="list-style-type: none"> • Chemistry I • DC Chemistry 	Choose one: <ul style="list-style-type: none"> • AP Environmental Science • Pre-AP Physics I • AP Chemistry
11TH	Choose one: <ul style="list-style-type: none"> • Earth Systems and Environment 	Choose one: <ul style="list-style-type: none"> • Physics I • Pre-AP Physics I • Introduction to Astronomy & Oceanography • Anatomy • Zoology • Forensics 	Choose one: <ul style="list-style-type: none"> • Pre-AP Physics I • AP Biology • AP Environmental Science • AP Chemistry
12TH		*If pre-requisites are met, students can take additional science elective courses.	Choose one: <ul style="list-style-type: none"> • AP Physics • AP Chemistry • AP Biology • AP Environmental Science • Dual Credit Anatomy • Other Science elective courses*

*Menu of Science Electives
<ul style="list-style-type: none"> • AP Environmental Science • AP Chemistry • AP Physics • AP Biology • Pre-AP Chemistry • Pre-AP Physics • Zoology • Dual Credit Anatomy • Anatomy • Introduction to Oceanography (1 semester) • Introduction to Astronomy (1 semester) • Forensics • PLTW Biomedical

BIOLOGY I

Course Number: 307-308

Grade 9-12

FULL YEAR

2 Credits

Core 40, AHD, & THD Science course

Major biological concepts such as cell physiology, genetics, evolution, ecology, and the unity of life are stressed. Much class time is devoted to laboratory work including the 8 common labs completed by all students. Biology I is designed to meet the requirement of one year of life science and includes a state-mandated end-of-course assessment (ECA).

BIOLOGY I, HONORS

Course Number: 3077-3088

Grade 9-12

FULL YEAR

2 Credits

Core 40, AHD, & THD Science course

Pre-requisite: Teacher recommendation (based off of performance on English, Math, and Science ILEARN and also motivation and performance in middle school) & completion of Algebra I.

Biology I, Honors is focused to develop a deep body of knowledge about the structures, functions, and changes that differentiate living organisms from non-living systems; in order to prepare students for taking honors science courses. Students will be exposed to a variety of scientific literacy, study skills, and metacognitive skills to equip them for success in future honors science courses. As compared to Biology I, this course includes increased rigor of content and increased class time devoted to laboratory work including the 8 common labs completed by all students. Biology I, Honors is designed to meet the requirement of one year of life science and includes a state-mandated end-of-course assessment.

BIOLOGY, ADVANCED PLACEMENT

Course Number: 319-320

Grade 11-12

FULL YEAR

2 Credits

Core 40, AHD, & THD Science course

Prerequisite: B- or higher in AP Environmental Science, AP Chemistry, or Pre-AP Biology II.

This is a grade weighted course. Students must receive a grade of C- or higher to receive a grade weight.

Students are required to take the Advanced Placement exams in May in order to receive the grade weight.

Biology, Advanced Placement is a fast paced, college level course based on content established by the College Board. Students enrolled in Biology, Advanced Placement will use inquiry skills to explore the topics of Biochemistry, Evolution, Cells, Genetics, Ecology, and Plant/Animal Form and Function. Students will spend at least 25% of the class in the laboratory environment. Students taking Biology, Advanced Placement should realize that there is an obligation to do a considerable amount of work outside the classroom to keep pace with the class schedule. Students enrolled in this course are expected to complete the summer homework assignments as provided by the instructor.

CHEMISTRY I

Course Number: 311-312

Grade 9-12

FULL YEAR

2 Credits

Core 40, AHD, & THD Science course

Prerequisite: B- or higher in Algebra I; Recommended concurrent with Algebra II

First Year Chemistry allows students to analyze the structure of matter and observe how matter interacts through laboratory investigations in the classroom. Students have opportunities to (1) gain an understanding of the history of chemistry, (2) explore the uses of chemistry in various careers, (3) investigate chemical topics and how they relate to the everyday world, and (4) learn and practice proper laboratory safety. Since much of this course involves solving problems, a strong math background is needed.

ADVANCED SCIENCE, CC/IT CHEM 101, INTRODUCTORY CHEMISTRY

Course Number: 3453-3454

Grade 9-12

FULL YEAR

2 Credits

Core 40, AHD, & THD Science course

Prerequisite: B or higher in Algebra II or concurrent enrollment in Algebra II Honors.

Required test scores for dual credit are located on page 13 of this document.

Dual credit available through Ivy Tech CC.

This is a grade weighted course. Students must receive a grade of C- or higher to receive a grade weight. Students are also required to enroll and pay for dual credit in order to receive the grade weight.

Students must receive a grade of C- or higher to receive a grade weight. Dual Credit Chemistry is a fast paced, inquiry-based course that includes the science of chemistry and measurement, atomic theory and the periodic table, chemical bonding, equation writing and balancing, stoichiometry, gases, acids/bases and more to support students wishing to advance to AP Chemistry and AP Biology in future years. Includes Lab. Students enrolled in this course are expected to complete the summer homework assignments as provided by the instructor.

CHEMISTRY, ADVANCED PLACEMENT

Course Number: 321-322 **Grade 11-12**

FULL YEAR 2 Credits

Core 40, AHD, & THD Science course

Prerequisite: B- or higher in Pre-AP Chemistry I Honors.

This is a grade weighted course. Students must receive a grade of C- or higher to receive a grade weight. Students are required to take the Advanced Placement exams in May in order to receive the grade weight.

Chemistry, Advanced Placement is a continuation of Chemistry I. Those topics introduced in Chemistry I will be reviewed and developed to a greater depth. AP Chemistry is designed to be the equivalent of a college general chemistry course. Students enrolled in this course are expected to complete the summer homework assignments as provided by the instructor.

PHYSICS I

Course Number: 315-316 **Grade 10-12**

FULL YEAR 2 Credits

Core 40, AHD, & THD Science course

Prerequisite: Co-Req. Algebra II

Physics I aids students in synthesizing the fundamental concepts and principles concerning matter and energy through the laboratory study of mechanics, wave motion, heat, light, electricity, magnetism, electromagnetism, and atomic and nuclear physics. Students have opportunities to: (1) acquire an awareness of the history of physics and its role in the birth of technology, (2) explore the uses of its models, theories, and laws in various careers, and (3) investigate physics questions and problems related to personal needs and social issues. Projects outside the classroom may be assigned each marking period.

PRE-AP PHYSICS I, HONORS

Course Number: 3481-3482 **Grade 10-12**

FULL YEAR 2 Credits

Core 40 & AHD, & THD Science course

Prerequisite: B or higher in Algebra II

This is a grade weighted course. Students must receive a grade of C- or higher to receive a grade weight.

PRE-AP PHYSICS I, HONORS aids students in synthesizing the fundamental concepts and principles concerning matter and energy through the laboratory study of mechanics, wave motion, heat, light, electricity, magnetism, electromagnetism, and atomic and nuclear physics. Students have opportunities to: (1) acquire an awareness of the history of physics and its role in the birth of technology, (2) explore the uses of its models, theories, and laws in various careers, and (3) investigate physics questions and problems related to personal needs and social issues. Projects outside the classroom may be assigned each marking period.

Curriculum may be compacted to provide more time for in depth study of current topics or presentation of additional topics not usually found in the regular classroom. Students will complete at least one independent research paper during the year. Students may be in contact with research or industrial scientists via distance learning experiences or other appropriate means. Thirty-five percent of the course will be spent in laboratory exercises that provide students with the in-depth lab experience needed to support AP science course labs. A summer reading assignment may be required. Students taking Honors Physics should realize that there is an obligation to do a considerable amount of work outside the classroom, both in individual studies and in group work

PHYSICS C, MECHANICS, ADVANCED PLACEMENT

Course Number: 357-358

Grade 11-12

FULL YEAR

2 Credits

Core 40, AHD, & THD Science course

Prerequisite: Physics 1 or Pre-AP Physics with B- or higher in all semesters; Calculus or concurrent Calculus enrollment

This is a grade weighted course. Students must receive a grade of C- or higher to receive a grade weight. Students are required to take the Advanced Placement exams in May in order to receive the grade weight. Physics C Mechanics, Advanced Placement is a course based on content established by the College Board. Physics C Mechanics covers the classical mechanics area of physics. This includes one and two dimensional motion, forces and Newton's laws, energy, momentum, rotational motion, gravitation, and oscillations. The course broadens and generalizes the concepts explored in Physics I and incorporates calculus into the study of physics. This course is designed to prepare the student for a college level engineering physics or calculus based physics course.

ENVIRONMENTAL SCIENCE, ADVANCED PLACEMENT

Course Number: 349-350

Grade 10-12

FULL YEAR

2 Credits

Core 40, AHD, & THD Science course

Prerequisite: B- or higher in both semesters of Biology and Chemistry

This is a grade weighted course. Students must receive a grade of C- or higher to receive a grade weight. Students are required to take the Advanced Placement exams in May in order to receive the grade weight. Environmental Science, Advanced Placement is a course based on content established by the College Board. Students enrolled in AP Environmental Science investigate the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them.

ANATOMY & PHYSIOLOGY

Course Number: 339-340

Grade 10-12

FULL YEAR

2 Credits

Core 40, AHD, & THD Science course

Prerequisite: C or higher in Biology I or Teacher Recommendation

Anatomy and Physiology is an advanced science course taken at the high school level for college credit. Students taking this course should be interested in pursuing a degree in the health sciences, biological sciences, or medical field. The course covers the major systems of human body. The course focuses on anatomical terminology, anatomical identification, and physiological processes of human body systems. Students enrolled in this course should realize that this course requires an extensive amount of time, effort, reading, and memorization. Successful completion of this class requires dedication and commitment from the student.

ADVANCED SCIENCE, CC/VU BIOL 111/112L, ANATOMY & PHYSIOLOGY I

Course Number: 3401-3402

Grade 12

FULL YEAR

2 Credits

Core 40, AHD, & THD Science course

Prerequisite: B or higher in Biology I and Chemistry I recommended

Dual credit available from Vincennes University, not in CTL

This is a grade weighted course. Students must receive a grade of C- or higher to receive a grade weight. Students are also required to enroll and pay for dual credit in order to receive the grade weight.

Anatomy and Physiology is an advanced science course taken at the high school level for college credit. The course covers the major systems of human body. The course focuses on anatomical terminology, anatomical identification, and physiological processes of human body systems. Students enrolled in this course are expected to complete the summer homework assignments as provided by the instructor.

INTEGRATED CHEMISTRY-PHYSICS (ICP)

Course Number: 353-354 **Grade 10-12**
FULL YEAR 2 Credits

Core 40, AHD, & THD Science course

Integrated Chemistry-Physics introduces the fundamental concepts of scientific inquiry, the structure of matter, chemical reactions, forces, motion, and the interactions between energy and matter. This course will serve students as a laboratory-based introduction to possible future coursework in chemistry or physics while ensuring a mastery of the basics of each discipline. The ultimate goal of the course is to produce scientifically literate citizens capable of using their knowledge of physical science to solve real-world problems and to make personal, social, and ethical decisions that have consequences beyond the classroom walls.

ADVANCED SCIENCE, SPECIAL TOPICS: EARTH SYSTEMS and ENVIRONMENT

Course Number: 351-352 **Grade 11-12**
FULL YEAR 2 Credits

Core 40, AHD, & THD Science course

Earth Systems science will explore three main themes: Earth as an Interactive System, Understanding Earth's Spheres, and Human Impact & the Environment. This course takes a 21st Century approach to studying Earth Science by studying the Earth through an environmental lens and focusing on how events, natural and man-made, impact Earth's spheres. Classroom activities include investigating current issues, modeling Earth's processes, exploring Earth's features, and exploring how different events impact Earth's spheres. Students will consider human impact on Earth's spheres as well as each sphere's impact on humans. Understanding the interconnectedness of Earth's spheres and human impact on those spheres will allow us to be better stewards of our planet.

ADVANCED SCIENCE, SPECIAL TOPICS: FORENSICS

Course Number: 361-362 **Grade 11-12**
FULL YEAR 2 Credits

Core 40, AHD, & THD Science course

Prerequisite: B or higher in all semesters of Biology and Chemistry

Advanced Science Topics: Introduction to Forensic Science is a course designed to explain "how science helps solve crimes." In this course, students will learn how different types of evidence are analyzed, the procedures for processing a crime scene, and how scientific principles are applied to legal matters. This course will cover a variety of topics, including: crime scene sketching/processing, fingerprinting, DNA analysis, blood spatter analysis, drug chemistry, arson, and more, in addition to how the science of each is applied to the law. This course will also include guest speakers from various fields of crime scene investigation/labs and will culminate with a project where students will apply their skills to fully investigate a mock crime scene. Class materials provide scientific reading and writing opportunities as well as being a lab oriented course. Students enrolled in this course are expected to complete the summer homework assignments as provided by the instructor.

ADVANCED SCIENCE, SPECIAL TOPICS: INTRODUCTION TO OCEANOGRAPHY

Course Number: 371 **Grade 11-12**
ONE SEMESTER 1 Credit

Core 40, AHD, & THD Science course

This introductory course focuses on the oceanic component of the Earth system with particular emphasis on the role of the ocean in Earth's geological, biological, chemical, physical and climatic cycles. This course includes the investigation of a number of interdisciplinary topics that are pertinent to current environmental awareness including El Nino, Global warming, The Carbon Cycle, the physical properties of sea water and sea ice, and tidal fluctuations. The final exam for this course will be a project that allows students to dig deeper into an area of interest in Oceanography and/or Marine Science.

ADVANCED SCIENCE, SPECIAL TOPICS: INTRODUCTION TO ASTRONOMY

Course Number: 381 **Grade 11-12**
ONE SEMESTER 1 Credit

Core 40, AHD, & THD Science course

In this class, we will be studying, quite literally, everything in the universe. We will start with "classical" astronomy, describing the night sky and organizing what we see as was done in ancient times. We will then embark on a journey, starting here on Earth and progressing outward, to study the Solar system, the Milky Way galaxy, and the wonderful and strange objects we observe in deep space, such as black holes, quasars, and supernovae. We will end with some discussion of what scientists know today about the universe as a whole. Along the way we will introduce some of the methods, theoretical and experimental, that have been used to understand all of this, from Newton's laws, through our understanding of light and matter, to Einstein's theory of relativity, and from Galileo's telescope to WMAP. The final exam or this course will be a project that allows students to dig deeper into an area of interest in Astronomy.

ADVANCED SCIENCE, SPECIAL TOPICS: ZOOLOGY

Course Number: 309-310

Grade 10-12

FULL YEAR

2 Credits

Core 40, AHD, & THD Science course

Prerequisite: C or higher in Biology I; Chemistry or ICP grade of B or higher.

This course focuses on the evolution and ecology of animals beginning with invertebrates and continuing through vertebrates. Zoology provides extended laboratory and literary investigations into the internal structures, functions and process of animals with an emphasis on their interactions with the environment.

SOCIAL STUDIES

The chart is a suggested sequence of study. Students often combine courses from both tracks. See course descriptions for prerequisite information. All final decisions should be made with the guidance counselor.

Grade	Academic Honors (AP and Dual Credit)	Core 40
9th	<ul style="list-style-type: none"> • AP World History 	<ul style="list-style-type: none"> • Geography & History of the World • World History and Civilization
10th	<ul style="list-style-type: none"> • AP Human Geography • AP US History 	<ul style="list-style-type: none"> • Geography & History of the World • World History and Civilization
11th	<ul style="list-style-type: none"> • Sociology • Psychology • AP US History • AP Human Geography • AP Psychology/ VU Dual Credit Psychology • Indiana Studies • Ethnic Studies 	<ul style="list-style-type: none"> • US History • Psychology • Sociology • AP US History • AP Psychology/ VU Dual Credit Psychology • Indiana Studies • Ethnic Studies
12th	<ul style="list-style-type: none"> • AP Government • AP Microeconomics / IU Dual Credit Econ E201 • AP Psychology / Dual Credit Psychology • AP Human Geography • Indiana Studies • Ethnic Studies 	<ul style="list-style-type: none"> • Government • Economics • Psychology • Sociology • AP Psychology/ VU Dual Credit Psychology • Indiana Studies • Ethnic Studies

WORLD HISTORY AND CIVILIZATION

Course Number: 401-402 **Grade 9-10**
FULL YEAR **2 Credits**

Core 40, AHD, & THD Social Studies course

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 trans-cultural 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 skills 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.

WORLD HISTORY, ADVANCED PLACEMENT

Course Number: 427-428 **Grade 9-12**
FULL YEAR **2 Credits**

Core 40, AHD, & THD Social Studies course

8th grade Prerequisites: B or higher in Language Arts 8HA and History 8HA; or A in Language Arts 8 and History 8; Social Studies Teacher Recommendation

9th grade or higher Prerequisites: B or higher in Pre-AP English Honors

Additional textbook fees are assessed for this course.

This is a grade weighted course. Students must receive a grade of C- or higher to receive a grade weight. Students are also required to take the Advanced Placement exams in May.

AP World History: Modern is designed to be the equivalent of a two-semester introductory college or university world history course. According to the College Board, AP World History: Modern students "investigate significant events, individuals, developments, and processes in historical periods from approximately 1200 CE to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; and utilizing reasoning about comparison, causation, and continuity and change over time. The course provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, economic systems, social interactions and organization, and technology and innovation. The reading and writing skills emphasized in this class are ideal to prepare student for additional honors, dual credit, and AP courses in high school. This course requires extensive use of the school's learning management system (LMS) Schoology.

GEOGRAPHY & HISTORY OF THE WORLD

Course Number: 425-426 **Grade 9-10**

FULL YEAR 2 Credits

Core 40, AHD, & THD Social Studies course

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

UNITED STATES HISTORY

Course Number: 403-404 **Grade 11**

FULL YEAR 2 Credits

Core 40, AHD, & THD Social Studies course

United States History builds upon concepts developed in previous studies of U.S. History and emphasizes national development from the late nineteenth century into the twenty-first century. After reviewing fundamental themes in the early development of the nation, 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 as they relate to life in Indiana and the United States. Students are expected to trace and analyze chronological periods and examine the significant themes and concepts in U.S. History. Students 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.

UNITED STATES HISTORY, DUAL CREDIT – ADV SS CC/VU HIST 139/140

Course Number: 4043-4044 **Grade 11**

FULL YEAR 2 Credits

Core 40, AHD, & THD Social Studies course

Prerequisites: C+ or higher in English 10 or Pre-AP English 10 Honors

Dual Credit Course: Core Transfer Library (CTL), Credit through Vincennes University

Additional textbook fees are assessed for this course.

This is a grade weighted course. Students must receive a grade of C or higher to receive a grade weight.

Students are also required to enroll and pay for dual credit in order to receive the grade weight.

The colonial period; causes and results of the American Revolution; the development of the federal system of government; the growth of democracy; early popular American culture; territorial expansion; slavery and its effects; sectionalism; causes and effects of the Civil War; Reconstruction, political and economic. Industrial growth of the nation and its effects, agrarian and urban discontent and attempts at reform, World War I, the Roaring Twenties, social and governmental changes of the thirties, World War II and its consequences, the growth of the federal government, social and political upheaval in the sixties and seventies, and the conservatism of the eighties. This course requires extensive use of the school's learning management system (LMS) Schoology.

UNITED STATES HISTORY, ADVANCED PLACEMENT

Course Number: 4063-4064 **Grade 10***

Course Number: 405-406 **Grade 11**

FULL YEAR 2 Credits

Core 40, AHD, & THD Social Studies course

Prerequisite: A in English 10 or B or higher in Pre-AP English 10 Honors and B or higher in either World History or Geography of the World.

****Sophomores may enroll in AP US History if they have taken AP World History as freshmen – with a teacher Recommendation.***

This is a grade weighted course. Students must receive a grade of C- or higher to receive a grade weight.

Students are required to take the Advanced Placement exams in May in order to receive the grade weight.

AP U.S. History is a course based on the content established by the College Board. In AP U.S. History, students investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to the present. Students develop and use the same skills and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change. The course also provides eight themes that students explore throughout the course in order to make connections among historical developments in different times and places. This course requires extensive use of the school's learning management system (LMS) Schoology.

UNITED STATES GOVERNMENT

Course Number: 407 **Grade 12**

ONE SEMESTER 1 Credit

Core 40, AHD, & THD Social Studies course

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. The United States' interactions 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, politics, and civic activities and the need for civic and political engagement of citizens in the United States. This course requires extensive use of the school's learning management system (LMS) Schoology.

US GOVERNMENT AND POLITICS, ADVANCED PLACEMENT

Course Number: 421 **Grade 12**

ONE SEMESTER 1 Credit

Core 40, AHD, & THD Social Studies course

Prerequisite: AP U.S. History or an A in regular U.S. History

This is a grade weighted course. Students must receive a grade of C- or higher to receive a grade weight.

Students are also required to take the Advanced Placement exams in May in order to receive the grade weight.

The AP US Government and Politics course offers students an analytical perspective on government and politics in the United States, including the study of general concepts used to interpret U.S. politics and the

analysis of specific examples. The topics of study include constitutional underpinnings of U.S. government; political beliefs and behaviors; political parties, interest groups, and mass media; institutions of national government; public policy; and civil rights and civil liberties. This course will require student work and class participation during times when school is not in session. This may include summer vacation, winter vacation, and/or spring vacation.

ECONOMICS

Course Number: 408

Grade 12

ONE SEMESTER

1 Credit

Core 40, AHD, & THD Social Studies course

Economics examines the allocation of resources and their uses for satisfying human needs and wants. The course analyzes economic reasoning and behaviors of consumers, producers, savers, investors, workers, voters, institutions, governments, and societies in making decisions. 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. Key elements of the course include the study of scarcity and economic reasoning, supply and demand, market structures, the role of government, national economic performance, the role of financial institutions, economic stabilization, and trade.

MICROECONOMICS, ADVANCED PLACEMENT/DUAL CREDIT: IU INTRO TO MICROECONOMICS

Course Number: 422

Grade 12

ONE SEMESTER

1 Credit

Core 40, AHD, & THD Social Studies course

Prerequisite: 2.7 GPA and completion of Algebra II

This is a grade weighted course. Students must receive a grade of C- or higher to receive a grade weight. Dual credit through Indiana University ACP available - IU ECON E201; Core Transfer Library (CTL) Students not taking this course for dual credit are required to take the Advanced Placement exams in May in order to receive the grade weight.

Microeconomics 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.

HUMAN GEOGRAPHY, ADVANCED PLACEMENT

Course Number: 441-442

Grade 10-12

FULL YEAR

2 Credits

Core 40, AHD, & THD Social Studies elective course.

Prerequisite: B- or higher average an English course

This is a grade weighted course. Students must receive a grade of C- or higher to receive a grade weight. Students are required to take the Advanced Placement exams in May in order to receive the grade weight. Human Geography, Advanced Placement is a course based on the content established by the College Board. The purpose of the AP Human Geography course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. Topics include: (1) Geography: its nature and perspectives, (2) population, (3) cultural patterns and processes, (4) political organization of space, (5) agriculture and rural land use, (6) industrialization and economic development, and (7) cities and urban land use. This course requires extensive use of the school's learning management system (LMS) Schoology. This course will require student work and class participation during times when school is not in session. This may include summer vacation, winter vacation, and/or spring vacation.

PSYCHOLOGY

Course Number: 411

Grade 11-12

ONE SEMESTER

1 Credit

Core 40, AHD, & THD Social Studies elective course

Psychology is the scientific study of mental processes and behavior. The course is divided into eight content areas. History & Scientific Method explores the history of psychology, the research methods used, and the ethical considerations that must be utilized. Biological Basis for Behavior focuses on the way the brain and nervous system function, including sensation, perception, motivation and emotion. Development looks at all the changes through one's life; physical, cognitive, as well as emotional, social and moral development. Cognition focuses on learning, memory, information processing, and language development. Personality and Assessment looks at the approaches used to explain one's personality and the assessment tools used. Abnormal Psychology explores psychological disorders and the various treatments used for them. Socio-Cultural Dimensions of Behavior covers topics such as conformity, obedience, perceptions, attitudes and influence of the group on the individual. Psychological Thinking explores how to think like a psychologist and expand critical thinking skills needed in the day-to-day life of a psychologist. This course requires extensive use of the school's learning management system (LMS) Schoology.

PSYCHOLOGY, ADVANCED PLACEMENT: DUAL CREDIT: CC/IT GENERAL PSYCHOLOGY 142

Course Number: 429 **Grade 11-12**

ONE SEMESTER 1 Credit

Core 40, AHD, & THD Social Studies elective course

Dual credit through Vincennes University available – PSYC 142; Core Transfer Library (CTL)

This is a grade weighted course. Students must receive a grade of C or higher to receive a grade weight.

Students not taking this course for dual credit are required to take the Advanced Placement exams in May in order to receive the grade weight.

Psychology, Advanced Placement is a course that provides students with the content established by the College Board. Topics include: (1) history and approaches, (2) research methods, (3) biological bases of behavior, (4) sensation and perception, (5) states of consciousness, (6) learning, (7) cognition, (8) motivation and emotion, (9) developmental psychology, (10) personality, (11) testing and individual differences, (12) abnormal psychology, (13) treatment of psychological disorders, and (14) social psychology. This course requires extensive use of the school's learning management system (LMS) Schoology. This course will require student work and class participation during times when school is not in session. This may include summer vacation, winter vacation, and/or spring vacation.

SOCIOLOGY

Course Number: 413 **Grade 11-12**

ONE SEMESTER 1 Credit

Core 40, AHD, & THD Social Studies elective course

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

INDIANA STUDIES

Course Number: 400 **Grade 11-12**

ONE SEMESTER 1 Credit

Core 40, AHD, & THD Social Studies elective course

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.

ETHNIC STUDIES

Course Number: 4000

Grade 11-12

ONE SEMESTER

1 Credit

Core 40, AHD, & THD Social Studies elective course

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.

WORLD LANGUAGES

TYPICAL WORLD LANGUAGE PROGRESSION			
	CORE 40 Designation	Academic Honors Designation	AHD w/ AP focus
9TH	<ul style="list-style-type: none"> Level I German, French or Spanish 	<ul style="list-style-type: none"> Level I German, French or Spanish Level II German, French, or Spanish (if level I completed in middle school) 	<ul style="list-style-type: none"> Level I German, French, or Spanish Level II German, French, or Spanish (if level I completed in middle school)
10TH		<ul style="list-style-type: none"> Level II German, French, or Spanish Level III German, French or Spanish (level II completed freshmen year) 	<ul style="list-style-type: none"> Level II German, French, and Spanish Level III Spanish, French, or German (level II completed freshmen year)
11TH		<ul style="list-style-type: none"> Level III German, French, or Spanish or Level I of a new language for 2 and 2 track 	<ul style="list-style-type: none"> 200 level Dual Credit Spanish, French, or German (level IV, if level III completed sophomore year)
12TH		<ul style="list-style-type: none"> Level II of a new language for 2 and 2 track or Dual Credit (level IV) Spanish, French, or German 	<ul style="list-style-type: none"> AP Spanish, German, or French (if level IV, DC Spanish, German, or French completed junior year)

FRENCH I

Course Number: 501-502

FULL YEAR, 2 Credits

Core 40, AHD, & THD World Language required course; Core 40, AHD, & THD elective and directed elective course

World Language I is a course based on Indiana's Academic Standards for World Languages, introduces students to effective strategies for beginning language learning, and to various aspects of the speaking culture. This course encourages interpersonal communication through speaking and writing, providing opportunities to make and respond to basic requests and questions, understand and use appropriate greetings and forms of address, participate in brief guided conversations on familiar topics, and write short passages with guidance. This course also emphasizes the development of reading and listening

GERMAN I

Course Number: 511-512

SPANISH I

Course Number: 531-532

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 the speaking culture; recognize basic routine practices of the target culture; and recognize and use situation-appropriate non-verbal communication. This course further emphasizes making connections across content areas and the application of understanding the language and culture outside of the classroom.

FRENCH II

Course Number: 503-504

FULL YEAR, 2 Credits

Core 40, AHD, & THD World Language required course; Core 40, AHD, & THD elective and directed elective course ***Prerequisite: C- or higher in World Language I (in the language studied) and Teacher Recommendation***

World Language II is a course based on Indiana's Academic standards for World Languages, builds upon effective strategies for the language learning by encouraging the use of the language and cultural understanding for self-directed purposes. This course encourages interpersonal communication through speaking and writing, providing opportunities to make and respond to requests and questions in expanded contexts, participate independently in brief conversations on familiar topics, and write cohesive passages with greater independence and using appropriate formats. This course also emphasizes the development of reading and listening comprehension skills, such as using contextual clues to guess meaning and comprehending longer written or oral directions. Students will address the presentational mode by presenting prepared material on a variety of topics, as well as reading aloud to practice appropriate pronunciation and intonation. Additionally, students will describe the practices, products and perspectives of the 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 the language and culture outside of the classroom.

GERMAN II

Course Number: 513-514

SPANISH II

Course Number: 533-534

FRENCH III

Course Number: 505-506

FULL YEAR, 2 Credits

Core 40, AHD, & THD World Language required course; Core 40, AHD, & THD elective and directed elective course ***Prerequisite: B- or higher in World Language II (in the language studied) is required OR Teacher Recommendation***

World Language III, a course based on Indiana's Academic Standards for World Languages, builds upon effective strategies for the 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 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 the language and culture outside of the classroom.

GERMAN III

Course Number: 515-516

SPANISH III

Course Number: 535-536

ADVANCED GERMAN, CC/BSU GERMAN 201/203

Course Number: 5003-5004

Grade 11-12

FULL YEAR

2 Credits

Core 40, AHD, & THD World Language required course; Core 40, AHD, & THD elective and directed elective course ***Prerequisite: B- or higher in German III OR Teacher Recommendation.***

This is a grade weighted course. Students must receive a grade of C- or higher to receive a grade weight. Students are also required to earn concurrent credit with the University for Grade weighting.

German 201 Emphasis on reading. Conversation coordinated with reading of cultural text, written and oral reports. Continued study of grammar structures, vocabulary building.
German 203 A continuation of German 201 with emphasis on writing. Cultural and contemporary topics.

GERMAN LANGUAGE & CULTURE, ADVANCED PLACEMENT

Course Number: 519-520 **Grade 12**

FULL YEAR 2 Credits

Core 40, AHD, & THD World Language required course; Core 40, AHD, & THD elective and directed elective course **Prerequisite: B- or higher in Advanced German CC VU GRMN 201/203 OR Teacher Recommendation.**

This is a grade weighted course. Students must receive a grade of C- or higher to receive a grade weight. Students are required to take the Advanced Placement exams in May in order to receive the grade weight. German Language, Advanced Placement is a course based on content established by the College Board. Emphasizing the use of the German language for active communication, the AP German Language course has as its objective the development of Spoken Interpersonal Communication, Written Interpersonal Communication, Audio, Visual, and Audiovisual Interpretive Communication, Written and Print Interpretive Communication, Spoken Presentational Communication, Written Presentational Communication. Course content might best reflect interests shared by the students and the teacher, e.g. the arts, current events, sports, etc. The AP German Language course seeks to develop language skills that are useful in themselves and that can be applied to various activities and disciplines rather than being limited to any specific body of subject matter. Extensive practice in the organization and writing of compositions should also be emphasized.

ADVANCED FRENCH, CC/VU FRENCH 201/203

Course Number: 5001-5002 **Grade 11-12**

FULL YEAR 2 Credits

Core 40, AHD, & THD World Language required course; Core 40, AHD, & THD elective and directed elective course **Prerequisite: B- or higher in French III OR Teacher Recommendation.**

This is a grade weighted course. Students must receive a grade of C- or higher to receive a grade weight. Students are also required to earn concurrent credit with the University for Grade weighting.

French 201 Emphasis on reading. Conversation coordinated with reading of cultural text, written and oral reports. Continued study of grammar structures, vocabulary building.

French 203 A continuation of French 201 with emphasis on writing. Cultural and contemporary topics.

FRENCH LANGUAGE & CULTURE, ADVANCED PLACEMENT

Course Number: 5101-5102 **Grade 12**

FULL YEAR 2 Credits

Core 40, AHD, & THD World Language required course; Core 40, AHD, & THD elective and directed elective course **Prerequisite: B- or higher in Advanced French CC VU FREN 201/203 OR Teacher Recommendation.**

This is a grade weighted course. Students must receive a grade of C- or higher to receive a grade weight. Students are required to take the Advanced Placement exams in May in order to receive the grade weight. French Language, Advanced Placement is a course based on the content established by the College Board. French Language covers the equivalent of a third-year college course in French composition and conversation or a third-year college course in introduction to French literature. French Language, AP, emphasizing the use of French for active communication, has as its objective the development of the following competencies: the ability to comprehend spoken French in various contexts; a French vocabulary sufficiently ample for reading newspaper and magazine articles, literary texts, and other non-technical writings without dependence on a dictionary; and the ability to express oneself coherently, resourcefully, and with reasonable accuracy and fluency in both written and spoken French. Course content might best reflect interests shared by the students and the teacher, e.g., the arts, current events, literature, culture, sports, etc. The focus of the course is developing language skills that are useful in themselves and that can be applied to various activities and disciplines rather than being limited to any specific body of subject matter. Extensive practice in the organization and writing of compositions should also be emphasized.

ADVANCED SPANISH, CC/VU SPANISH 201/203

Course Number: 5301-5302 Grade 11-12

FULL YEAR 2 Credits

Core 40, AHD, & THD World Language required course; Core 40, AHD, & THD elective and directed elective course **Prerequisite: B- or higher in Spanish III OR Teacher Recommendation.**

This is a grade weighted course. Students must receive a grade of C- or higher to receive a grade weight.

Students are also required to earn concurrent credit with the University for Grade weighting.

SPAN 201 Emphasis on reading. Conversation coordinated with reading of cultural text, written and oral reports. Continued study of grammar structures, vocabulary building.

SPAN 203 A continuation of SPAN 201 with emphasis on writing. Cultural and contemporary topics.

SPANISH LANGUAGE & CULTURE, ADVANCED PLACEMENT

Course Number: 5401-5402 Grade 12

FULL YEAR 2 Credits

Core 40, AHD, & THD World Language required course; Core 40, AHD, & THD elective and directed elective course **Prerequisite: B- or higher in ADVANCED SPANISH, CC/VU SPANISH 201/203 OR Teacher Recommendation.**

This is a grade weighted course. Students must receive a grade of C- or higher to receive a grade weight.

Students are required to take the Advanced Placement exams in May in order to receive the grade weight.

Spanish Language, Advanced Placement is a course based on the content established by the College Board. Spanish Language, AP covers the equivalent of a third-year college course in advanced Spanish writing and conversation. It encompasses aural/oral skills, reading comprehension, grammar, and composition. Spanish Language, Advanced Placement, emphasizing the use of Spanish for active communication, has as its objective in the development of the following competencies: the ability to comprehend formal and informal spoken Spanish; the acquisition of vocabulary and a grasp of structure to allow the easy, accurate reading of newspaper and magazine articles, as well as of modern literature in Spanish; the ability to compose expository passages, and the ability to express ideas orally with accuracy and fluency. Course content might best reflect interests shared by the students and the teacher, e.g., the arts, current events, literature, culture, sports, etc. Spanish Language, Advanced Placement seeks to develop language skills that are useful in themselves and that can be applied to various activities and disciplines rather than being limited to any specific body of subject matter. Extensive practice in the organization and writing of compositions should also be emphasized.

AREA 31 CAREER PROGRAMS

Career and Technical Education

Career and Technical Education (CTE) Programs prepare students for careers and/or further study at a post-secondary institution. Most programs are offered at the Area 31 Career Center at Ben Davis High School. Opportunities exist for students of all abilities in a variety of programs. Area 31 does not discriminate on the basis of race, color, gender, national origin, religion, creed, disability, sexual orientation or gender identity. Local employers provide curriculum direction and employment, including work based learning experiences. Most career and technical education programs enable a student to receive college credit. Some programs offer state approved industry certifications that can be used to meet technical honors diploma requirements. Other departments including Business, Communications, Science, and Engineering and Technology Education have course offerings that will help students choose a career pathway.

NOTE: Before enrolling in any Career and Technical Education program, the student must complete an enrollment form and return it to a counselor.

Course offerings include:

- Advanced Manufacturing: Industrial Maintenance I & II
- Automotive Service Technology I & II**
- Aviation Flight Technology**
- Aviation Maintenance Technology I**
- Collision Repair Technology I & II**
- Construction Trades I & II**
- Cosmetology I & II**
- Criminal Justice I**
- Culinary Arts I (Culinary Arts and Hospitality Management)**
- Culinary Arts II (Advance Culinary Arts)**
- Dental Careers
- Digital Integrated Manufacturing I & II**
- Early Childhood Education I**
- Early Childhood Education II (WBL)**
- Emergency Medical Services **
- Fire and Rescue I**
- Graphic Imaging Technology I & II**
- Health Science Education I**
- Health Science Education II (CNA WBL)
- Heating and Air (HVAC I & II)**
- Horticulture Science I & II**
- Medical Assisting**
- Networking & Cyber Security I & II**
- Pharmacy Tech I**
- Pharmacy Tech II (WBL)**
- Precision Machining I & II**
- Radio Broadcasting I & II**
- Supply Chain Management**
- Television Broadcasting I & II**
- Tractor/Trailer Operation **
- Welding Technology**

**College credit available; dual credits offered may change to align with NLPS (Next Level Programs of Study)

Note: *Indiana college credit is generally transferable from one Indiana educational institution to another; however, students and parents should research the transfer themselves just to be sure. One educational institution cannot make a transfer call for another. Students and parents should contact an advisor at the institution where they want to attend and ask if the credit being offered will count toward the degree of their choice.*

ADVANCED MANUFACTURING: INDUSTRIAL MAINTENANCE I
ADVANCED MANUFACTURING: INDUSTRIAL MAINTENANCE II

Length/Credits: 3 periods – 3 credits

Offered: **COLLEGE CREDIT** *4 semester program*

Open to: *Grade 11, 12*

Prerequisite: *Algebra I and English 10*

Dual Credit: *Ivy Tech Community College – 6 credits*

- Identify basic manufacturing processes and major types of production systems
- Describe the need for workplace safety and workplace safety training programs
- Discuss basic blueprint reading fundamentals, and quality systems
- Perform basic measurement using precision measuring tools
- Explain the basic concepts of electrical, hydraulic, and pneumatic power systems
- Demonstrate a general knowledge of non-traditional manufacturing processes and automation
- Describe the design, tooling and production aspects of manufacturing
- Describe the basic concepts of machine control, machine automation, and electrical control
- Discuss the concepts of Lean Manufacturing, and Total Productive Maintenance.

Ivy Tech Community College credit can be earned for the following courses:

ADMF 102 Technology in Adv. Manufacturing 3 credits

ADMF 101 Key Principles of Adv. Manufacturing 3 credits

AUTOMOTIVE SERVICE TECHNOLOGY I
AUTOMOTIVE SERVICE TECHNOLOGY II

COLLEGE CREDIT

Length/Credits: *3 period block; 3 credits*

Offered: *4 semester program*

Open to: *Grades 11, 12*

Prerequisite: *Algebra I and English 10*

Dual Credit: *Ivy Tech Community College – 21 credits*

- Develop skills for entry level positions in eight specialty areas based on National Institute for Automotive Service Excellence: automatic transmission/transaxle, brakes, electrical systems, engine performance, engine repair, heating and air conditioning, manual drive train and axles, and suspension and steering
- Work with customers to service real vehicles
- Work-based learning experience possible for second year seniors with recommendation; transportation required to worksite
- Can earn ASE (Automotive Service Excellence) certifications and Maintenance Light Repair (MLR) certification from Ivy Tech

Ivy credit can be earned for the following courses:

Year 1

AUTI 100 Basic Automotive Service 3 credits

AUTI 111 Electrical Systems I 3 credits

AUTI 121	<i>Break Systems I</i>	3 credits
AUTI 122	<i>Steering and Suspension</i>	3 credits
AUTI 145	<i>Driveline Service</i>	3 credits

Year 2

AUTI 131	<i>Engine Performance</i>	3 credits
AUTI 141	<i>Engine Fundamentals</i>	3 credits

AVIATION FLIGHT TECHNOLOGY

Length/Credits: **COLLEGE CREDIT** 3 periods; 3 credits

Offered: 2 semester program

Open to: Grades 11, 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Vincennes University - 18 credits

Note: Students must provide their own transportation to ATC, 2175 S. Hoffman Road, Indianapolis; Accuplacer testing required for acceptance (Reading: 231+, Writing: 231+, Math: 245+)

- Introduce students to general aviation industry, including: aircraft manufacturing, airline operations, air freight, airport management, government services, aviation safety regulations, and certifications
- Learn skills needed to pass the Federal Aviation Agency written pilot examination
- Study aircraft hydraulic systems, aircraft electrical systems, landing gear, break systems, pressurization, constant speed propellers, prop synchrophasers, de-ice and anti-ice break systems, airframe construction techniques, and radar
- Develop skills for aircraft instrumentation, radios and systems
- Explore weather theory and data interpretation as it relates to aviation
- This course is provided at the Vincennes Airport Technology Center, Students must provide their own transportation

Vincennes credit may be earned for the following courses:

Sem. 1 (fall)

AMNT 100	<i>Intro to Aviation</i>	3 credits
AFLT 210	<i>Aircraft Systems, Perf. & Aerodynamics</i>	3 credits
AFLT 291	<i>Aviation Law and Regulations</i>	3 credits

Sem. 2 (spring)

AFLT 100	<i>Primary Ground School</i>	4 credits
AFLT 225	<i>Human Factors and Safety</i>	2 credits
AFLT 285	<i>Aviation Weather</i>	3 credits

AVIATION MAINTENANCE I

Length/Credits: 3 period block; 3 credits **COLLEGE CREDIT** 2 semester program

Offered: 2 semester program

Open to: Grade 11, 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Vincennes University -16 credits

Note: Students must provide their own transportation to ATC, 2175 S. Hoffman Road, Indianapolis; Accuplacer testing required for acceptance (Reading: 231+, Writing: 231+, Math: 245+)

- Study the mechanics of an airplane engine; how it works, and how to repair
- Study and experience aircraft servicing, operations, general electricity, publications, instrumentation, fire protection, cabin atmosphere, fuel systems and welding
- Learn from instruction by Vincennes University at the Aviation Technology Center at Indianapolis International Airport
- Requires excellent attendance (missed instructional time must be made up as required by F.A.A. regulations).

Vincennes credit can be earned for the following courses:

Sem. 1 (fall)

AMNT 106	Materials, Process, Welding	4 credits
AMNT 166	Composite & Nonmetallic Structures	4 credits

Sem. 2 (spring)

AMNT 102	General Aviation Maintenance	4 credits
AMNT 162	Aircraft Sheet Metal	4 credits

COLLISION REPAIR TECHNOLOGY I
COLLISION REPAIR TECHNOLOGY II

COLLEGE CREDIT

Length/Credits: 3 period block; 3 credits

Offered: 4 semester program

Open to: Grades 11, 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Vincennes University – 16 credits

Note: Juniors are scheduled into the morning class; seniors are scheduled into the afternoon class.

- Learn to work on the bodies of cars and move into a wide variety of job possibilities
- Learn basics of computerized frame measuring; computerized estimate writing; metal working skills; hammer and dolly; filler applications, blocking and sanding; shrinking and stretching methods; refinish techniques and use of spray painting equipment, computerized mixing and matching of paints (solvent and water based)
- Develop skills in MIG welding, plastic welding and plasma cutting
- Provide required work clothing and shoes
- Work-based learning experience possible for second year seniors with recommendation; transportation required to worksite; basic hand tools required for employment
- Can earn ASE (Automotive Service Excellence) certifications and SP2 Safety Certification

Vincennes University credits may be earned for the following courses:

1st Year

BODY 100	Non-Structural Analysis Damage Repair	3 credits
BODY 100L	Non-Structural Analysis Damage Repair –Lab	4 credits
AUTO 105	Transportation Fundamentals	2 credits

2nd Year

BODY 150	Painting and Refinishing	3 credits
BODY 150L	Painting and Refinishing-Lab	4 credits

CONSTRUCTION TRADES I
CONSTRUCTION TRADES II

COLLEGE CREDIT

Length/Credits: 3 period block; 3 credits

Offered: 4 semester program

Open to:

Grades 11, 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Ivy Tech (Indy) – 15 credits

- Experience construction from the foundation up
- Explore career possibilities in the construction industry: carpentry, masonry, electrical, plumbing, concrete, painting, roofing, and drywall
- Earn OSHA certification
- Build a new home/building or renovate an existing building; emphasis placed on construction and practice
- Work in the heat and cold and everything in between; will need coveralls and winter clothing; tools, approximate cost \$60

Ivy Tech - Indy credits for the following courses:

Year 1

BCTI 100 Intro to Construction 3 credits

BCTI 101 Intro to Carpentry- part 1 3 credits

BCTI 103 Carpentry Framing & Finish, 3 credits

Year 2

BCTI 102 Intro to Carpentry-part 2 3 credits

BCTI 104 Carpentry Framing & Finish, 2 3 credits

COSMETOLOGY I

COSMETOLOGY II

COLLEGE CREDIT

Length/Credits:

4 period block; 3 credits

Offered:

4 semester program

Open to:

Grades 11, 12

Prerequisite: Algebra 1 and English 10

Note: Applicants must have a cumulative GPA of 2.0 (C average) and good attendance record

Dual Credit: Vincennes University – 28 credits

- Develop proficiency in all skills of beauty culture to qualify for the State Board of Beauty Culture examination
- Attend 4-hour class, am or pm at Ben Davis High School; or am at PJ's in Brownsburg for first year students
- Attend P. J.'s Beauty College in Plainfield or Brownsburg for second year students; must have own transportation and attend on Saturdays
- Demonstrate skills in shampoos and sets, iron outs, updos, permanents, relaxers, scalp treatments, facial treatments, haircuts, haircolor, manicures, pedicures, waxing, proper sanitation, and personal hygiene
- Complete required 1500 hours in two-year period;
- Provide services on manikins, other students, and clients hair, skin and nails
- Purchase beautician kit before the start of school; contains supplies and materials used every day; 1st year cost is approximately \$650; 2nd year cost determined by PJ's (approximately \$200)
- Provide a Non-refundable deposit of \$50 by June 1st; credited toward the cost of the first year kit
- Indiana State Board of Cosmetology Certification

Vincennes University credit can be earned for the following courses with required grade. Identified *courses must pass Accuplacer testing:

Year 1

*COSM 100 Cosmetology I 7 credits

COSM 150 Cosmetology II 7 credits

Year 2

COSM 200	Cosmetology III	7 credits
COSM 250	Cosmetology IV	7 credits

CRIMINAL JUSTICE I

COLLEGE CREDIT

Length/Credits: 3 period block; 3 credits

Offered: 2 semester program

Open to: Grades 11, 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Vincennes University- 12 credits

- Study fundamentals of criminal investigation, theory and history; and techniques appropriate to specific crime scenes
- Learn traffic administration and control: its impact as a control method, driver licensing local traffic control systems, accident causation and investigation, identification and analysis of traffic problems, traffic safety coordination, and the use of selective enforcement as a method of traffic control
- Study US criminal justice system
- Explore forensic science and its value in the courtroom: laboratory procedures and capabilities; crime scene searching and sketching; photography; firearms and tool mark identification; fingerprints; shoe and tire impressions; headlamp examination; arson; analysis and preservation of trace evidence
- Uniform required (approximately \$150)

NOTICE: Students in this program may be assigned to a Brownsburg or Wayne Township location based on considerations such as program enrollment numbers and the student's home high school. The Area 31 Enrollment Committee makes enrollment decisions and placement decisions are made by Area 31 Career Center administration.

Vincennes University credits may be earned for the following courses:

Fall Semester

LAWE 101 Basic Police Operations 3 credits

LAWE 150 Criminal Minds & Deviant Behav. 3 credits

Spring Semester

LAWE 100 Survey of Criminal Justice 3 credits

LAWE 145 Ethics & Professionalism 3 credits

CULINARY ARTS AND HOSPITALITY

MANAGEMENT (I)

COLLEGE CREDIT

ADVANCED CULINARY ARTS (II)

Length/Credits: 3 period block; 3 credits

Offered: 4 semester program

Open to: Grades 11, 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Vincennes University – 36 credits

- Prepare for entry-level positions in the culinary field, and who knows... maybe even open your own restaurant one day!
- Learn safety and sanitation, food costs, management skills, and continued exploration of basic cooking techniques, table service, food and culture, and careers
- Gain first hand kitchen and dining room experience by operating a student run restaurant open for the public

- Explore employment opportunities include prep cook, line cook, kitchen manager, sous chef, or chef host/hostess, servers assistant, server, assistant manager, or manager.
- Earn nationally recognized ServSafe Certification
- Required uniform: chef coat (3), hat (2), pants (2), and apron; approximate cost \$130

Vincennes University credit can be for the following courses:

Year 1 - Fall

CULN 110	Quantity Food Production	5 credits
REST 100	Intro to Hospitality Mgmt.	3 credits
REST 120	Food Service Sanitation	3 credits

Year 1 – Spring

CULN 210	Pastry & Bake Shop Production	5 credits
REST 230	Menu Planning & Facility Design	3 credits

Year 2 – Fall

CULN 150	Adv Quantity and Food – Lab	5 credits
CULN 215	Supervision of Quantity Foods	3 credits
REST 155	Quantity Food Purchase	3 credits

Year 2 - Spring

REST 213	Beverage III – Non-Alcohol Bever.	1 credit
CULN 260	Haute Cuisine & Specialty	5 credits

Note: Some of the courses may require student payment of \$25 per credited hour in order to earn the credit.

DENTAL CAREERS

Length/Credits: 3 period block; 3 credits

Offered: 2 semester program

Open to: Grade 12

Prerequisite: Algebra 1 and English 10

- Participate in a program accredited by the Dental Assisting National Board
- Receive hands-on training to develop skills necessary to succeed on the job as a dental assistant
- Perform duties such as instrument sterilization, tray setups, four-handed dentistry, equipment maintenance, impressions, model trimming, charting, and dental reception duties
- Pursue National Entry Level Dental Assistant Certification (NELDA) and an Indiana Radiology License
- Required to provide a TB test and documentation, and a copy of Hepatitis vaccination series
- Required to wear ceil blue scrubs and white tennis shoes

**DIGITAL INTEGRATED MANUFACTURING I
DIGITAL INTEGRATED MANUFACTURING II**

Length/Credits: 3 period block; 3 credits

Offered: 4 semester program

Open to: Grades 11, 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Ivy Tech Community College – 12 Credits

COLLEGE CREDIT

- Earn OSHA 10 Hour Safety Training
- Study Blueprint development & reading
- Study various types of material handling
- Learn maintenance awareness skills

- Learn various types of machine operations and hand tools
- Learn principles of manufacturing processes and LEAN Manufacturing
- Learn precision measurement and measurement conversions
- Study various Quality concepts and techniques
- Learn Industrial Internet of Things (IoT)
- Learn Programming of Programmable Logic Controllers (PLC)
- Learn the operation of High and low voltage electrical circuits & sensors
- Learn Relay control circuits
- Study various types of Ethernet and Network communications
- Learn Robotic theory & programming
- Learn CNC machining & programming
- Study the operations of Hydraulics & fluid power, Pneumatics, and compressed air systems
- Learn Mechanical power transmission, including gears, belts, and chain drives
- Students can earn Ivy Tech credits and certifications such as OSHA 10, and Alliance certifications.

Ivy Tech Community College credits upon successful completion of coursework

Year 1

SMDI 110 Introduction of IIOT 3 Credits

SMDI 111 Technology in Smart Man & Digital 3 Credits

Year 2

SMDI 130 Electrical Systems in Manufacturing – Capstone 3 credits

INDT 205 Programmable Automation Controls – Capstone 3 credits

EARLY CHILDHOOD EDUCATION I

Length/Credits: **COLLEGE CREDIT** *3 period block; 3 credits*

Offered: *2 semester program*

Open to: *Grades 11, 12*

Prerequisite: *Algebra 1 and English 10; Child Development & Advanced Child Development (preferred)*

Dual Credit: *Ivy Tech Community College – 9 credits*

- Learn stages of a child's physical, emotional, social, and cognitive development, and skills in instruction and observation
- Develop skills and techniques for providing appropriate environments and care for young children
- Participate at Giant Preschool Learning Center (ages 3, 4, and 5) and Chapelwood Elementary school and possible Early Learning Academy: observing, teaching, and working one-on-one with students
- Students must complete: physical, TB test and documentation, and an Indiana State Police Criminal Background Check
- Complete training in: First Aid, CPR, and Universal Precautions

Ivy Tech Community College credits upon successful completion of coursework with a grade of A or B. Identified

*courses must pass Accuplacer testing:

**ECED 100 Intro to Early Childhood Ed 3 credits*

**ECED 101 Health, Safety & Nutrition 3 credits*

**ECED 103 Curriculum in the Classroom 3 credits*

EARLY CHILDHOOD EDUCATION II (WBL)

COLLEGE CREDIT *3 period block; 3 credits*

Offered: *2 semester program*

Open to: *Grade 12*

Prerequisite: Algebra 1 and English 10, Early Childhood Education I and teacher recommendation

Dual Credit: Ivy Tech Community College – 3 credits

- Work and receive high school credit while gaining work experience for CDA (Child Development Associate) credentialing
- Students work in a licensed day care center in the community
- Teacher recommendation is required for second year enrollment and participation in the program
- Personal transportation required to jobsite
- Competitive placement – must interview for a position
- Grades, classroom performance, and attendance are reviewed before acceptance in the second year work-based learning program
- Students will complete CDA portfolio/test/verification visit

Ivy Tech Community College credits can be earned for the following course with “C” or higher in ECED 100, 101, and 103
ECED 105 CDA Process 3 credits

EMERGENCY MEDICAL SERVICES

Length/Credits: 3 period block; 3 credits

Offered:

COLLEGE

2 semester program

Open to:

Grade 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Ivy Tech Community College – 7 ½ credits

Note: Students must be 18 years of age prior to completion of clinical experiences for certification as an EMT.

- Learn about life and death situations, spontaneous decision making, and careers in advanced medical positions
- Prepare for further study for an associate degree in Emergency Medical Services
- Learn to recognize a patient’s condition; the seriousness, and how to use appropriate emergency care techniques and equipment to stabilize the patient
- Earn certifications which include American Heart Association (AHA) Healthcare Provider CPR or American Red Cross (ARC) Professional Rescuer CPR, IAED Emergency Dispatch/Telecommunication Certificate
- Document clinical experiences, some to be completed on student’s own time (evenings and weekends)
- Provide a limited criminal history check and immunization records
- National Registry Emergency Medical Technician (NREMT) Certification upon completion of standards and test
- Required uniform will cost approximately \$75

Ivy Tech credits may be earned for the following course:

PARM 102 EMT Basic Training 7 ½ credits

FIRE AND RESCUE I

Length/Credits:

COLLEGE CREDIT

3 period block; 3 credits

Offered:

2 semester program

Open to:

Grades 11, 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Ivy Tech – 12 credits

Note: Classes at the ESEC (Emergency Service Education Center) at 700 North High School Road; Students must provide their own transportation to ESEC

- Experience an adrenaline rush, burning buildings, blazing fires
- Prepare for entry-level positions or further study in fire service

- Study fire protection systems, fire prevention and safety education, building construction and floor plans, fire, safety and construction codes
- Prepare for Firefighter I & II certifications exams
- Learn the importance of on-scene and on-the-job firefighter health, safety and fitness
- Uniform required: shirts, safety glasses, gloves; approximately \$130
- ISHAA physical is required

Ivy Tech credits may be earned for the following courses:

<i>HSPS 106</i>	<i>Fire Suppression</i>	<i>3 credits</i>
<i>HSPS 122</i>	<i>Hazmat Awareness and Operations</i>	<i>3 credits</i>
<i>HSPS 165</i>	<i>Firefighter I</i>	<i>3 credits</i>
<i>HSPS 167</i>	<i>Firefighter II</i>	<i>3 credits</i>

GRAPHIC IMAGING TECHNOLOGY I

GRAPHIC IMAGING TECHNOLOGY II

COLLEGE CREDIT

Length/Credits: 3 period block; 3 credits

Offered: 4 semester program

Open to: Grades 11, 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Vincennes University – 12 credits

- Create your own logo, then sport it, spread it, promote it! What's your brand?
- Provide hands-on training utilizing current graphic arts fundamentals
- Create computer-generated imagery and image assembly, graphic reproduction methods, and current technology available in finishing and bindery
- Experience real time production work in a graphics laboratory
- Train on state-of-the-art equipment in the most technically current printing facility available in a high school setting
- Work-based learning experience possible for second year seniors with acceptable grades, good attendance, and a recommendation; transportation required to work site
- Learn and use Adobe Photoshop, Illustrator & In-Design

Vincennes University credit may be earned for the following courses:

<i>DESN 120</i>	<i>Computer Illustration</i>	<i>3 credits</i>
<i>DESN 140</i>	<i>Computer Imaging</i>	<i>3 credits</i>
<i>ARTT 111</i>	<i>Visual Design</i>	<i>3 credits</i>
<i>DESN 155</i>	<i>Computer Page Layout</i>	<i>3 credits</i>

HEALTH SCIENCE EDUCATION I

Length/Credits: COLLEGE CREDIT 3 period block; 3 credit

Offered: 2 semester program

Open to: Grades 11, 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Ivy Tech Community College – 14 credits

- Experience the high demand of the health care field
- Build foundational skills in preparation to enter the medical field: medical, dental, laboratory, or nursing
- Focus on medical terminology, anatomy/ physiology, professional development (career investigation, job search, medical hands-on tasks, leadership, etc.), and Certified Nurse Aide (CNA) training

- Complete a clinical experience at an approved health care facility under the supervision of a licensed nurse
- Required physical (\$25), TB tests and documentation (\$25), and criminal background check (\$21.00)
- Other costs possible: transportation and the state certification exam (approximately \$75.00)
- Required uniform cost is approximately \$60-\$80
- Grades, classroom performance, and attendance are reviewed before acceptance in a second year program
- CPR certification approximately \$30

NOTICE: Students in this program may be assigned to a Brownsburg or Wayne Township location based on considerations such as program enrollment numbers and the student’s home high school. The Area 31 Enrollment Committee makes enrollment decisions and placement decisions are made by Area 31 Career Center administration.

Ivy Tech Community College credits may be earned in the following courses if the student completes the course with a grade of A or B. Identified * courses must pass Accuplacer testing:

<i>HLHS 100 Intro to Health Careers</i>	<i>3 credits</i>
<i>*HLHS 101 Medical Terminology</i>	<i>3 credits</i>
<i>HLHS 107 CNA Preparation</i>	<i>5 credits</i>
<i>HLHS 102 Essentials of Anatomy and Physiology</i>	<i>3 credits</i>

**HEALTH SCIENCE EDUCATION II
(CNA WBL)**

Length/Credits: 3 period block; 3 credit

Offered: 2 semester program

Open to: Grades 12

Prerequisite: Teacher recommendation and State CNA Certification
CPR Certification

- On the job training; work in a health-related environment
- Completion of the CNA certification will increase employment possibilities
- Students must furnish their own transportation to job sites

**HEATING AND AIR - HVAC I
HEATING AND AIR - HVAC II**

COLLEGE CREDIT

Length/Credits: 3 period block; 3 credits

Offered: 4 semester program

Open to: Grades 11, 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Ivy Tech Community College – 9 credits

- Prepare and explore careers in the field of Heating and Air
- Study tools, safety, electrical circuits, proper handling of equipment, temperature control, installation of equipment, sheet metal layout and design, pipefitting, and work attitudes
- Work based learning experience possible for second year seniors with recommendation and transportation to job site
- Opportunity to earn OSHA certification and EPA certifications

Ivy Tech Community College credits may be earned for the following course:

HVAC 101 Heating Fundamentals	3 credits
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HVAC 103 Refrigeration I 3 credits

HVAC 100 Intro to HVAC Tech 3 credits

HORTICULTURE SCIENCE I

HORTICULTURE SCIENCE II

Length/Credits: COLLEGE CREDIT 3 period block; 3 credits

Offered: 4 semester program

Open to: Grades 11, 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Ivy Tech Community College – 15 credits

- Study basic horticulture & landscape skills and career opportunities
- Understand common horticultural and agricultural diseases and pests, and the management of each
- Identify common horticultural plants and understand best uses
- Perform plant and vegetable production in greenhouse setting
- Understand the size and productivity of farms and ranches in the US and around the world
- Understand US production systems for major grain crops, including Crop Rotation Systems, Tillage Systems, Variety Selection, and Harvest and grain storage technology
- Have students recognize the role of producers, input suppliers, food marketing organizations, and consumers in the U.S. Agricultural economy
- Help students understand and develop the qualities and characteristics employers in agribusiness expect in prospective employees

Ivy Tech credits may be earned for the following courses:

Year 1

AGRI 100 Introduction to Agriculture 3 credits

AGRI 116 Survey of Horticulture 3 credits

AGR 117 Soil Science 3 credits

Year 2

AGRI 175 Introduction to Greenhouse Mgmt 3 credits

AGRI 129 Alternative Growing Methods 3 credits

MEDICAL ASSISTING

Length/Credits: COLLEGE CREDIT 3 period block; 3 credits

Offered: 2 semester program

Open to: Grade 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Ivy Tech Community College 15.5 credits

- Learn duties and responsibilities of administrative and clinical medical assistants
- Learn to assist in minor surgical procedures, record vital signs, perform venipuncture, administer EKGs and injections, CPR Training
- Understand anatomy and physiology: all body systems and organization
- Study exam room procedures, aseptic practices, medical spelling and terminology, and law and ethics

- Learn to implement basic accounting procedures, file insurance claims, bill and schedule patients, prepare medical charts, reports, keyboarding and dictation and correspondence
- After graduation students who complete the program with a 70% or above will be eligible to take the CCMA certification
- Requirements: approved uniform, shoes, TB and Hepatitis B health certificates

NOTICE: Students in this program may be assigned to a Brownsburg or Wayne Township location based on considerations such as program enrollment numbers and the student’s home high school. The Area 31 Enrollment Committee makes enrollment decisions and placement decisions are made by Area 31 Career Center administration.

Ivy Tech credits may be earned for the following courses:

<u>Fall</u>	
HLHS 100 Intro to Health Careers	3 credits
HLHS 104 CPR/Basic Life Support	.5 credit
<u>Spring</u>	
HLHS 101 Medical Terminology	3 credits
HLHS 102 Essentials of Anatomy and Physiology	3 credits
MEAS 225 CCMA Development Prep	6 credits

NETWORKING & CYBERSECURITY I
NETWORKING & CYBERSECURITY II

COLLEGE CREDIT

Length/Credits: 3 period block; 3 credits
Offered: 4 semester program
Open to: Grades 11, 12
Prerequisite: Algebra 1 and English 10
Dual Credit: Vincennes University – 36 credits

- Learn the basics of cybersecurity through labs and activities
- Perform some of the routine tasks of a cybercrime and computer forensics investigator
- Learn how to ethically hack computer systems
- Perform activities and labs that enable you to become a Windows 10 technician
- Learn how to build a virtual environment and keep them safe
- Engage in activities that can help you become a pro in data security
- Through labs and hands on learning how to build your own CISCO Network
- Opportunity to earn CISCO certification, COMP TIA certification, and A+ certification

NOTICE: Students in this program’s first year may be assigned to a Brownsburg or Wayne Township location based on considerations such as program enrollment numbers and the student’s home high school. The Area 31 Enrollment Committee makes enrollment decisions and placement decisions are made by Area 31 Career Center administration.

Vincennes University credits may be earned for the following courses and may include at \$25 per credit hour:

<u>Fall Year 1</u>	
CNET 151 Information and Data Security I	3 credits
CNET 155 Basic Cyber Crime and Computer Forensics	3 credits
CNET 146 Intro to Network Operations and Security	3 credits
<u>Spring Year 1</u>	
COMP 146 Computer Configuration and Mgmt I	3 credits
CNET 246 Fundamentals in Networking Ops	3 credits

CNET 251 *Information and Data Security II* 3 credits

CNET 255 *Adv Research in Cyber Crime and Forensics* 3 credits

Fall Year 2

CNET 237 *Operating Systems II* 3 credits

COMP 177 *Intro Programming Logic* 3 credits

CNET 236 *Operating Systems I* 3 credits

Spring Year 2

CNET 227 *Cybersecurity Operations* 3 credits

COMP 232 *Business Driven Communications and Net* 3 credits

PHARMACY TECH I

Length/Credits:

COLLEGE CREDIT

period block; 3 credits

Offered:

2 semester program

Open to:

Grade 11, 12

Prerequisite: *Algebra 1 and English 10; GPA 2.3*

Dual Credit: *Vincennes University – 22 credits*

Note: *Students must provide a background check in order to apply for Indiana Technician in Training License; Accuplacer testing required for acceptance (Reading: 250+, Writing: 250+, Quantitative Reasoning: 245+)*

- *Learn how to assist licensed pharmacists and provide medication and other healthcare products to patients*
- *Perform routine duties such as counting tablets, labeling bottles, updating patient information and processing insurance claims*
- *Learn about patient confidentiality and ethics governing pharmacy practice; policies and procedures related to a pharmacy tech position; purchasing, inventory control, and record keeping involved in drug orders*
- *Conduct labs including storage, packaging, and labeling requirements of drugs, prescriptions, and drug orders*
- *Apply arithmetic calculations required for dosage determinations*
- *Job shadow and include other work-based learning activities*
- *All students will need to obtain a drug screening and background check*

Students may earn Vincennes University credits at \$25 per credit hour for the following courses with required grade.

Identified *courses must pass Accuplacer testing: Reading: 250+, Writing: 250+, Quantitative Reasoning: 245+)

Fall Semester

*HIMT 110 *Medical Term* 3 credits

PHRM 105 *Pharmacology I* 3 credits

PHRM 110 *Dispensing Lab I* 2 credits

PHRM 220 *Pharmacy Calculations* 3 credits

Spring Semester

PHRM 206 *Pharmacology II* 3 credits

PHRM 211 *Dispensing Lab II* 2 credits

PHRM 115 *Pharmacy Law for Technicians* 3 credits

PHRM 200 *Pharmacy Mgmt* 3 credits

**PHARMACY TECH II
(WBL)**

COLLEGE CREDIT

Length/Credits:

3 period block; 3 credits

Offered: 2 semester program

Open to: Grade 12

Prerequisite: Pharmacy Tech I

Dual Credit: Vincennes University – 5 credits

- On the job training; work in a Pharmacy environment
- Students must furnish their own transportation to job sites

Students may earn Vincennes University credits at \$25 per credit hour for the following courses with required grade.

PHRM 225 Practicum 5 credits

PRECISION MACHINING I PRECISION MACHINING II

COLLEGE CREDIT

Length/Credits: 3 period block; 3 credits

Offered: 4 semester program

Open to: Grades 11, 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Vincennes University – 21 credits

- Develop skills to become employed immediately out of school
- Prepare for employment within the machine tool technology industry
- Study measurement, layout and inspection; machine tool processes and operations; metallurgy, welding, shop math, and reading blueprints
- Learn operation of band saw, drill press, lathe, milling machine and surface grinder
- College Credits transferable into Vincennes University's Machine Trades Technology programs
- Opportunity to obtain APICS Certificate: Logistics; APICS Certificate: Operations; MSSC Certificate: Certified Logistics Associate

Vincennes University credits may be earned for the following courses:

1st Year

PMTD 110 Manufacturing Processes 2 credits

PMTD 110L Manufacturing Processes Lab 1 credit

PMTD 120 General Machines 6 credits

PMTD 105 Metallurgy & Industrial Blueprint 2 credits

2nd Year

PMTD 116 Introduction to CNC Programming 2 credits

PMTD 111 Advanced Machine Tools I 3 credits

PMTD 115 CNC Set Up and Operation 2 credits

PMTD 112 Advanced Machine Tools II 3 credits

RADIO BROADCASTING I RADIO BROADCASTING II

Length/Credits: 1, 2 or 3 periods; up to 3 credits

COLLEGE CREDIT

Offered: 4 semester program

Open to: Grades 11, 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Vincennes University – 6 credits

- You could be on the air, 90.9, "First on your dial for variety,"
- Learn firsthand on WBDG, a student run 400 Watt FCC-licensed FM radio station
- Learn basic operation of a radio station, radio programming, voice and diction, organization, time management, and teamwork
- Specialty areas include: sports announcing, disc jockeying, voice-over work, news casting, news reporting, broadcast writing, non-commercial fundraising, and audio production
- Complete real-world projects and learn by doing, by correcting mistakes, and by improving on a daily basis
- May require before, during, and after school assignments as a part of the course curriculum

Vincennes University credit may be earned for the following courses:

Year 1

BCST 102 Intro Audio/Visual Production 3 credits

Year 2

BCST 120 Audio Production I 3 credits

SUPPLY CHAIN MANAGEMENT

Length/Credits: **COLLEGE CREDIT** 3 periods – 3 credits

Offered: 2 semesters

Open to: Grades 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Ivy Tech – 15 Credits

Certifications: MSSC Certified Logistics Technician & MSSC Certified Logistics Associate

NOTE: Location of class at the “MADE” Plainfield facility, students will meet on Wednesday afternoons, other days will be on-line.

- Explore basic concepts of supply chain management, customer service, transportation, purchasing, inventory, and warehouse management.
- Study the concepts of Lean disciplines relating to the ability of an enterprise to develop a work environment that promotes continuous improvement, eliminates waste, reduces operating cost, improves quality, and achieves measurable improvement in customer satisfaction.
- Learn strategic concepts such as planning and design, customer service, transportation, purchasing, forecasting, inventory and warehouse management.
- Focus on the logistics sector of business by examining the structure and importance of the commercial transportation industry.

Ivy Tech Community College credits may be earned for the following course with required grade

Fall

LOGM 127 Intro to Logistics 3 credits

LOGM 229 Transportation Systems 3 credits

LOGM 280 Logistic Coop-Intern/Externship 3 credits

Spring

LOGM 201 Logistics Quality & Lean Mfg 3 credits

LOGM 227 Supply Chain Mgmt 3 credits

TELEVISION BROADCASTING I
TELEVISION BROADCASTING II

COLLEGE CREDIT

Length/Credits: 2 or 3 periods; up to 3 credits

Offered: 4 semester program

Open to: Grades 11, 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Vincennes University – 6 credits

- Be a star on WBDTV or work behind the scenes; lights, cameras, action!
- Learn television camera operations, audio, lighting, writing, and editing
- “Hands-on” approach to learning about studio production: anchoring, directing, producing, studio cameras, audio, and studio lighting
- Produce programming that will be aired on closed-circuit television at Ben Davis High School

Vincennes University credits may be earned for the following courses *with required grade and Accuplacer scores:*

Year 1

BCST 102 Intro to Audio/Visual Production 3 credits

Year 2

BCST 140 Video Production I 3 credits

TRACTOR/TRAILER OPERATION

COLLEGE CREDIT

Length/Credits: 3 period block, 3 credits

Offered: 1 semester program (Spring)

Open to: Grades 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Vincennes University – 18 credits; TTD 9130 Certificate of Program Completion (C.P.C.)

NOTE: Students must provide their own transportation to Vincennes University – CDL (ESEC training center), 700 N. High School Rd Suite 205, Indianapolis, IN 46214

Offered Semester 2 only

Requirements:

- must be 18 years old by March 1
- Must have held a valid Indiana Operator’s License for at least 1 year

Course Description:

- Provided by Vincennes University
- Participate in classroom instruction - Monday through Friday from either 7:30-10:00 am., or 12:30- 3:00 p.m. (First 8 weeks of the semester)
- Remaining weeks focus on hands-on, behind-the-wheel, road driving experience and backing skills and vehicle inspection
- Must pass a DOT physical exam and drug screen; to be administered prior to hands-on training

Approximate expenses for student include:

- \$17 CDL Learners Permit (CLP): payable to the IN BMV
- \$36 Commercial Driver’s License, payable to the IN BMV

- \$4 Motor Vehicle Record
- \$175 for additional test attempts, if needed

Upon passing the IN State BMV exam, students will be qualified to operate Class A commercial vehicles on Indiana roads.

Vincennes University credits may be earned in the following courses upon successful completion of the program with a grade of 80% or higher:

TTDT 100	<i>Basic Commercial Operations</i>	<i>3 credits</i>
TTDT 125	<i>Preventative Maintenance</i>	<i>5 credits</i>
TTDT 150	<i>Basic Control Skills</i>	<i>5 credits</i>
TTDT 175	<i>Road Driving</i>	<i>5 credits</i>

WELDING TECHNOLOGY I

Length/Credits: *3 periods – 3 credits*

Offered: *2 semester program*

Open to: *Grades 11, 12*

Prerequisite: *Algebra 1 and English 10*

Dual Credit: Vincennes University – 9 credits

COLLEGE CREDIT

- Become proficient in welding processes including: SMAW (stick), GMAW (MIG), and GTAW (TIG)
- Study industry standards in safety, blueprint reading, fabrication techniques and welding procedures
- Earn American Welding Society (AWS) SENSE: Entry Level Welder certification upon completing the course and passing certification test
- Earn S/P2 (Safety & Pollution) certification

<i>WELD 100</i>	<i>Welding Fundamentals</i>	<i>3 credits</i>
<i>WELD 108</i>	<i>Shielded Metal Arc Welding I</i>	<i>3 credits</i>
<i>WELD 207</i>	<i>Gas Metal Arc (MIG) Welding</i>	<i>3 credits</i>