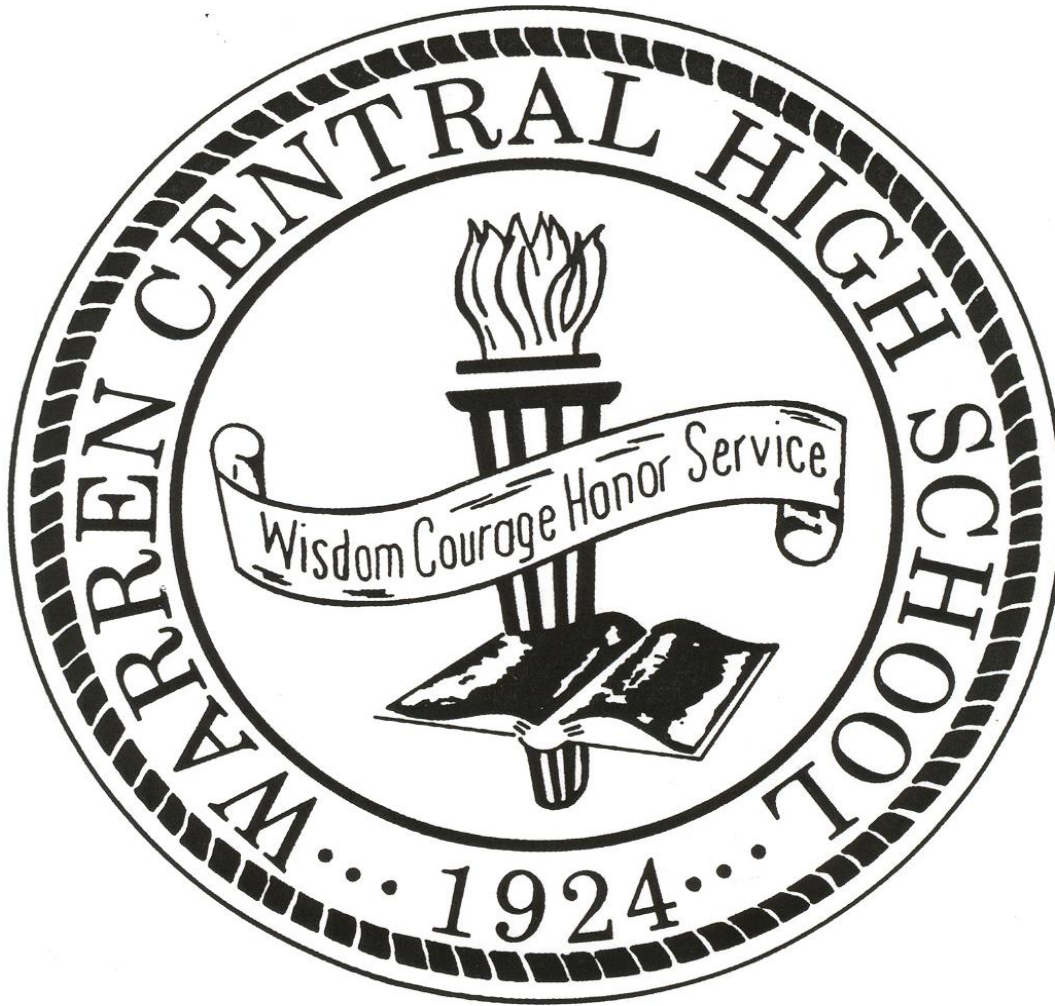


**WARREN CENTRAL**  
**2018 - 2019**  
**Course of Study Planning Guide**



**Course Descriptions**

Warren Central High School  
9500 East 16<sup>th</sup> Street  
Indianapolis, IN 46229  
[www.warren.k12.in.us](http://www.warren.k12.in.us)  
(317) 532-6200

# **TABLE OF CONTENTS**

WCHS Contact Information.....	1
Welcome .....	2-3
WCHS Information.....	4-5
Specific Course Types.....	6-7
CORE 40 Information.....	8-9
Graduation Checklist.....	10-11
WCC Pathways.....	12-14
Business Department.....	15-22
Engineering & Technology Education Department.....	23-31
English Department.....	32-39
Family & Consumer Science Department.....	40-44
Fine Arts Department.....	45-46
Math Department.....	47-51
Performing Arts Department.....	52-56
Physical Education Department.....	57-59
Science Department.....	60-66
Social Studies Department.....	67-72
World Language Department.....	73-76

# Course of Study Planning Guide

## **Warren Central High School**

Mr. Rich Shepler, Principal

Phone: 532-6200 Email: rshepler@warren.k12.in.us

## **Walker Career Center**

Dr. Steve Rogers, Director

Phone: 532-6150 Email: srogers@warren.k12.in.us

## **Counseling Services Center**

Mrs. Bre Brown, Director

Phone: 532-6225 Email: bbrown11@warren.k12.in.us

## **Counseling Services Center Counselors**

Counselor assignments are subject to change

Counselors are located in the G hallway of WCHS

A-Br	Mrs. Gretchen Brooks	532-6224	gbrooks@warren.k12.in.us
Bu-D	Mr. Brad Morgan	532-6222	bmorgan1@warren.k12.in.us
E-Ha	Mrs. Laura Butgereit	532-6382	lbutgere@warren.k12.in.us
He-K	Ms. Marshay Allen	532-6228	mallen7@warren.k12.in.us
L-M	Ms. Rachel Schwering	532-6491	rschweri@warren.k12.in.us
N-Ro	Mr. Patrick Clark	532-6227	pclark1@warren.k12.in.us
Ru-To	Mr. Michael James	532-6229	mjames1@warren.k12.in.us
Tr-Z	Mrs. Amy White	532-6393	awhite7@warren.k12.in.us

## **Department Chairs**

Business	Mr. Michael Espich	532-6157	mespich@warren.k12.in.us
Eng & Tech Ed.	Mr. Nathan Criswell	532-6160	ncriswel@warren.k12.in.us
English	Mrs. Heather Starks	532-6251	hstarks@warren.k12.in.us
Fam/Consumer Scs.	Mrs. A. Harkleroad	532-6477	aharkler@warren.k12.in.us
Fine Arts	Mr. Nathan Criswell	532-6160	ncriswel@warren.k12.in.us
Mathematics	Dr. Jennifer Jensen	532-6256	jjensen@warren.k12.in.us
Media Center	Ms. Diane Rupert	532-6267	dzentz@warren.k12.in.us
Perf Arts	Mr. Ed Meckes	869-4693	emeckes@warren.k12.in.us
Physical Ed	Mrs. Candy Handy-Ogle	869-4679	chandy@warren.k12.in.us
Science	Mr. Trent Bodine	532-6236	tbodine@warren.k12.in.us
Special Ed	Mrs. Jill Lines	532.6401	jlines@warren.k12.in.us
Social Studies	Mrs. Jennifer Holman	532-6435	jholman@warren.k12.in.us
World Language	Mr. Dave Burton	532-6256	dburton@warren.k12.in.us

# WELCOME TO WARREN CENTRAL HIGH SCHOOL AND WALKER CAREER CENTER

The Mission of Warren Central High School and Walker Career Center is to provide a safe environment where stakeholders culturally connect and engage in our school community, and students achieve at their highest level.

Our Vision is to develop life-long learners preparing for a diverse society.

Dear Students,

Warren Central is a comprehensive high school with a curriculum designed to properly prepare you for the future. We pride ourselves in providing educational opportunities that are both rigorous and relevant as set forth by our expectations and the expectations of the State of Indiana. We offer 15 Advanced Placement courses and 18 dual credit courses, and those numbers grow yearly as we look to expand our partnerships. As you plan for your next academic year, it is important that you ask questions and seek advice. This Course of Study Guide is an effective map for your success and an excellent resource for you as you prepare for your lifetime goals and ambitions.

*Rich Shepler, Principal  
Warren Central High School*

Warren Central High School and Walker Career Center have a policy of providing equal opportunity. All courses are open to all students, regardless of race, color, sex, handicapping conditions, or national origin, including limited English proficiency.

P.L. 81-2000 (Access to Student Directory Information by Military Personnel) was amended in July 2000. This law states that a public high school is required to provide access to the high school campus and "student directory information" to military representatives of the U.S. Armed Forces, the Indiana Air National Guard, the Indiana Army National Guard and the service academies. Any parent or eligible student (18 years and older) who **does not authorize Warren Central High School to give military personnel the above information must make such a request in writing by the conclusion of the sophomore year. Please forward all such requests to Warren Central High School's Counseling Services Center.**

# WALKER CAREER CENTER

Dear Students,

Walker Career Center is committed to providing students with the knowledge and skills necessary to compete in the global economy. We pride ourselves on staying up to date with all the business and industry standards. It is now time to prepare for YOUR future. Speaking of your future, what an amazing time to be a student at Walker Career Center. You have so many opportunities for your future here. Just to list a few opportunities that our students have here:

Automotive Collision Repair  
Computer Networking  
Culinary Arts  
Education Professions  
Graphic Design  
PLTW Biomedical Sciences  
Robotics

Automotive Service  
Construction Trades  
Dental Careers  
Electronics  
Health Careers  
Radio Production  
Welding

Architectural Drafting  
Cosmetology  
Early Childhood Education  
Finance Academy  
PLTW Engineering  
Television Production  
Precision Machine

It is my hope that our students will take advantage of the great opportunities that they have here at the Walker Career Center. I look forward to helping!

*Dr. Steve Rogers, Director  
Walker Career Center*

Warren Central High School and Walker Career Center have a policy of providing equal opportunity. All courses are open to all students, regardless of race, color, sex, handicapping conditions, or national origin, including limited English proficiency.

P.L. 81-2000 (Access to Student Directory Information by Military Personnel) was amended in July 2000. This law states that a public high school is required to provide access to the high school campus and "student directory information" to military representatives of the U.S. Armed Forces, the Indiana Air National Guard, the Indiana Army National Guard and the service academies. Any parent or eligible student (18 years and older) who **does not** authorize Warren Central High School to give military personnel the above information must make such a request in writing by the conclusion of the sophomore year. Please forward all such requests to Warren Central High School's Counseling Services Center.

# WCHS INFORMATION

Warren Central High School exists to create situations wherein each student is recognized and respected as an individual. The school is dedicated in its desire to provide opportunities that will permit each student to grow and develop while at Warren.

Warren Central High School is an educational institution that can trace its roots in Indianapolis back more than a century. Consolidated from two overcrowded schools in 1924, Warren Central High School has a strong history of excellence. Today, Warren Central High School and the Walker Career Center cover almost one million square feet "under one roof." The Vision 2020 building project has brought state-of-the-art renovations for the nearly 3,700 students.

Since 1983-84, Warren Central High School has been officially recognized as a "National School of Excellence" and as an Indiana Blue Ribbon School. Warren graduates have earned National Merit and other scholarships that have enabled them to achieve their goals. Co-curricular activities and student involvement in these activities are unparalleled in the state of Indiana. Championship caliber music programs and athletic teams have been the rule not the exception. The school newspaper and yearbook have received national accolades. Individual students consistently win awards in academic and performance competitions. Warren Central's Alumni Hall of Fame is laced with local and nationally renowned individuals.

## ACCREDITATION

Warren Central is accredited with a special first class commission by the Indiana State Department of Public Instruction and is accredited by the North Central Association of Colleges and Secondary Schools.

## CLASS SCHEDULING

The Course of Study Guide is designed to provide a wealth of information to assist in planning a student's schedule. In preparing for life after school, whether it is work, apprenticeship, military, technical college, two-year or four-year college, your choices that you make now will impact your future. Please take the time to plan, learn, and explore your interests and create a plan to reach your goals. Take time to check for prerequisites required for some classes.

**Your schedule is a Full-Year- commitment so courses must be chosen carefully.** Your counselor will meet with you to finalize your course selection.

## GRADE POINT AVERAGE

A student's GPA is calculated by taking the sum of their class grade points and dividing by the total of full credits taken.

**CLASS RANK:** Class rank is based on the grades earned in all subjects, except community service and school-to-work. This rank indicates how well a student competes with classmates over a four-year period and changes only with the issuance of the semester grades.

**CREDITS:** All classes meet every day, 18 weeks a semester, and 36 weeks a year to earn one (1) credit per semester.

## Grading Scale

<u>Letter Grade</u>	<u>Percentage Grade</u>	<u>4 Point Scale</u>
A	93-100	4
A-	90-92	3.67
B+	87-89	3.33
B	83-86	3.00
B-	80-82	2.67
C+	77-79	2.33
C	73-76	2.00
C-	70-72	1.67
D+	67-69	1.33
D	63-66	1.00
D-	60-62	.67
F	Below 59	0

# GRADUATION EXAM STANDARDS

Reading, writing and math are essential life skills, and students must demonstrate a basic understanding of English/language arts and mathematics as part of the requirements for graduation.

The assessment required for graduation can be met in three ways:

## 1. Pass the English and Mathematics End of Course Assessments

## 2. Evidence Based Waiver

- Take the ECAs in each subject area in which you did not achieve a passing score at least one time every school year after the school year in which you first took the ECA.
- Complete any extra help sessions offered each year by the school to prepare for the ECA retests.
- Maintain a school attendance rate of 95 percent or better over the course of your high school experience (excused absences are not counted against your attendance rate).
- Have at least a "C" average, over the course of your high school career, in the courses required for graduation.
- Satisfy any other state and local graduation requirements.
- Get a written recommendation from the teacher(s) in the subject area(s) not passed, as well as one from the school principal, and show proof that the academic standards have been met, whether through other tests or classroom work.

## 3. Work Readiness Waiver

- Take the ECAs in each subject area in which you did not achieve a passing score at least one time every school year after the school year in which you first took the ECA.
- Complete any extra help sessions offered each year by the school to prepare for the ECA retests.
- Maintain a school attendance rate of 95 percent or better over the course of your high school experience (excused absences are not counted against your attendance rate).
- Have at least a "C" average, over the course of your high school career, in the courses required for graduation.
- Satisfy any other state and local graduation requirements.
- Complete the course and credit requirements for a general diploma, including the career academic sequence; a workforce readiness assessment; and, at least one career exploration internship, cooperative education, or a workforce credential recommended by your school.

---

*In addition to meeting the Graduation Exam academic standard; a student must satisfy all state and local graduation requirements in order to be eligible to participate in the Warren Central graduation ceremony.*

For more information on the graduation exam, please visit the Indiana Department of Education's website at [www.doe.in.gov](http://www.doe.in.gov).

# SAT/ACT INFORMATION

**ACT & SAT** – Traditional four-year colleges currently require the SAT or ACT as part of their admissions process.

- Registration, test dates and test sites are determined by the companies which develop and score these tests.
- Registration for the tests may be completed by using the online registration service at <http://www.collegeboard.com> for the SAT or <http://www.act.org> for the ACT
- Questions regarding registration, scoring, or score reports should be directed toward the appropriate company.
- Students who have an Individual Education Plan (IEP) must complete a College Board/SSD accommodations request application two to three months before a test date.
- Test scores are sent to the students, to the high school, and to any colleges which the students specify on their registration forms.
- Athletes must report SAT or ACT scores directly to the NCAA Clearinghouse. Use the '999' number under the "sending scores" section of the registration form so that your "official scores" will be sent to the Clearinghouse.

## SPECIFIC COURSE TYPES

All courses offered at Warren Central High School may count towards an Indiana Core 40 Diploma, when credit is earned. (See the detailed diploma type requirements on page 7.) Some courses carry an additional title that indicates rigor, the ability to earn college credit, and/or that the course is primarily administered through online curriculum. Please read below for specific explanations.

**Advanced College Project:** The Advanced College Project (ACP) is a national program offered through Indiana University. Students who meet admission criteria for Indiana University may choose to take courses in Chemistry, Physics, Biology and Speech for Indiana University credit. Students pay tuition directly to Indiana University. The tuition has been at a rate below current on-campus tuition fees. (In 2014-2015 the cost was \$25/credit hour.) Students who enroll in the I.U. ACP program and earn credit in these courses will have a separate Indiana University transcript showing the course name, grade earned and credit hours established. If enrolling at another college or university, students may present their IU transcript for evaluation for possible transfer credit. Check this website to be sure credit will be accepted: <http://www.indiana.edu/~acp/program/what.html>. (ACP course offerings are noted in the course description in the Course of Study Guide.)

**Advanced Placement (AP):** Advanced Placement courses provide rigorous and in-depth study in a number of subjects as well as preparation for the AP national tests administered by the College Board, which are given in May each year. Students who perform well on AP exams may earn college credit. Generally, a score of 3, on a scale of 1-5, is required. Each college determines its own policy on granting credit for AP exam scores. By earning 4 or more AP credits in at least two different AP courses, students will meet a requirement for the Core 40 with Academic Honors Diploma. AP courses are a full year commitment, and students are expected to take the corresponding AP exam. All AP classes at Warren Central are weighted courses. (Advanced Placement course offerings are noted in the course description in the Course of Study Guide.)

**Credit Recovery:** Credit recovery courses are designed to allow students to earn back lost credits at a faster pace than the traditional classroom allows. Credit recovery courses are taught through Apex Learning in a computer lab setting. Students will have the opportunity to earn more than one credit per class period in an attempt to get back on track. Students may be placed in credit recovery in place of elective courses to earn back credits.

**Dual Credit:** Dual Credit courses are courses that can be taken to earn both high school and college credit simultaneously. Earning 6 or more college credit hours will satisfy a requirement to earn the Core 40 with Academic Honors Diploma. Additionally, college credits that are earned will be transcribed by each college and may fulfill course requirements at the college level. Warren Central and Walker Career Center currently work with Ivy Tech, Vincennes, IUPUI, and Indiana University for dual credit courses. Dual Credit courses are taught similarly to college courses with curriculum and instructors who have met college-level requirements. These courses can be rigorous and students must meet each respective college's prerequisites in order to be eligible for dual credit. As staffing changes dual credit offerings may change as well. Teachers must be approved by each college in order to be eligible to teach this course work. (Dual Credit course offerings are noted in the course description in the Course of Study Guide.)

**Excel:** In-coming 9<sup>th</sup> grade students are chosen for Excel (X) classes based on their performance in middle school and standardized test scores. Students are recommended by their respective middle school, and final placement decisions are made by the Warren Township district office personnel. Families will have the chance to accept or deny this placement, and schedules will be adjusted accordingly. Excel classes offered in the 9<sup>th</sup> and 10<sup>th</sup> grade are also weighted classes. (Excel course offerings are noted in the course description in the Course of Study Guide.)

**Virtual:** Virtual courses allow students to experience a class in a very different style from the traditional classroom. Virtual classes allow students the freedom to organize learning around what works for their schedule and requires personal management skills such as independent learning, time management, and collaboration. Teachers are experienced in supporting online learners and will be available virtually and will meet with the students in the course with regularity to maintain high academic standards. The virtual course is provided by Apex Learning. Each course will begin with an orientation period at the start of the semester. Students who are making appropriate progress will then move to a once a week mandatory class meeting and use the other four days to self-manage their course work. It is possible that a student may finish a course prior to the end of the regularly scheduled semester.

**Weighted:** Weighted courses are marked with an asterisk on the student transcript. These courses are deemed to be honors level courses and carry a .33 increase when figured into the overall GPA. For example: When a student earns a B+ in a regular class, it figures into the GPA as a 3.33; when they earn a B+ in a weighted class, it figures into the GPA as a 3.67. Overall, weighted classes can help to raise a student's GPA if they are taking a rigorous course load. (Weighted course offerings are noted in the course description in the Course of Study Guide.)



# ADDITIONAL ACADEMIC INFORMATION

**Extra-Curricular Participation Requirements:** Students enrolled at Warren Central/Walker Career Center who do not maintain a 2.0 (C) grade point average (GPA) or are not passing in at least five core subjects each grading period, must attend mandatory tutoring sessions to be eligible for participation in any school-sponsored, extra-curricular activity.

**High School Athletic Eligibility:** All students must be passing five out of seven classes in the previous and current nine weeks to be eligible for participation in a sport. If a student is not passing a class, has below a C or cumulative GPA below a 2.0, he or she is required to attend tutoring until the grade is up to standard. Grades are evaluated each nine week grading period.

**NCAA Eligibility:** Class of 2016 and beyond: For students entering an NCAA Division I school, the number of required full-year core courses is 16 (32 credits). 10 (20 credits) of the 16 full-year courses (32 credits) must be completed before the seventh semester (senior year) of high school. (7 of the 10 core courses that must be complete prior to the senior year must be in English, Math or Science.) Students must have a cumulative GPA of at least 2.3 in the required courses. Other requirements include minimum SAT Reasoning and ACT test scores that are determined by the student's cumulative GPA in core classes.

Prospective student-athletes should register with the eligibility center by their junior year of high school. Specific information about eligibility for all NCAA divisions can be found on the NCAA Eligibility Center website at [www.ncaaeligibilitycenter.org](http://www.ncaaeligibilitycenter.org). Information on recruiting and eligibility can also be found on the NCAA website at [www.ncaa.org](http://www.ncaa.org)

Reminder: Meeting the NCAA academic requirements does not guarantee acceptance into any college or university.

**Middle School Courses for Credit:** Warren Township middle school students may earn credit in middle school in Algebra I 1/2 and Spanish I 1/2. Students who successfully complete Algebra I with a grade of B- or better and pass the ECA will be placed in Geometry in grade 9 and will earn two credits for Algebra I. Students who do not successfully complete the course, do not pass the ECA, or are recommended to retake Algebra I in the 9<sup>th</sup> grade, will not have their 8<sup>th</sup> grade Algebra I credits added to the high school transcript. Students who have a grade of B- or better and complete Spanish in 7<sup>th</sup> and 8<sup>th</sup> grade and pass the final exam, may earn high school credit for Spanish I 1/2. In order for a student to earn high school credit for middle school Spanish; he/she must choose to continue on to Spanish II 3/4 in the 9<sup>th</sup> grade. Should a student not continue on to Spanish II, the middle school Spanish will not be added to the high school transcript.

**Retaking a Course:** A class may be retaken only if one or more of the following conditions exist:

- The student received a grade of F in the class.
- The student received a grade of C- or below and wishes to better master the content.
- The student received a grade of C- or below and wishes to meet the grade requirements for an Academic Honors Diploma.
- The student has not passed at least one of the end of course exams required for graduation and seeks to become eligible for waiver consideration.

A student seeking to retake a class will make an application with the counseling department. The student shall state the reason for the requested retake on the application. The counseling department will review the application. The principal or designee shall have the authority to grant final approval for a student to retake a class.

**The following conditions apply to retaking a class:**

A student who is allowed to retake the second semester of a two (2) semester class may also retake the first semester on an audit basis (no credit), with permission of the department chairperson and dependent upon space availability.

**A student may retake one class** (one semester only) to improve a grade during his/her high school career, and it must be within one year after receiving the semester grade of the class being retaken (may not be done after graduation or the final semester of their senior year.)

No online classes will be accepted in replacement of high school courses used for an Academic Honors Diploma without administrative approval.

When retaking a class for no credit, "XNG" will be placed on the student's transcript next to the original grade and this will not be figured into the student's grade point average (GPA).

The grade earned (either higher or lower) when the class is retaken will be placed on the transcript and replace the original grade in the calculation of the GPA.

The grade that is earned in the retake class will be used in the calculation of the GPA, but the new GPA shall render the student ineligible for such awards as valedictorian, salutatorian, and top ten award.

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

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

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

## CORE40 With Academic Honors *(minimum 47 credits)*

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

- Complete all requirements for Core 40.
- Earn 2 additional Core 40 math credits.
- Earn 6-8 Core 40 world language credits  
(6 credits in one language or 4 credits each in two languages).
- Earn 1 credit in Speech
- Earn 2 Core 40 fine arts credits.
- Earn a grade of a "C" or better in courses that will count toward the diploma.
- Have a grade point average of a "B" or better.
- Complete one of the following:
  - A. Earn 4 credits in 2 or more AP courses and take corresponding AP exams
  - B. Earn 6 verifiable transcribed college credits in dual credit courses from priority course list
  - C. Earn two of the following:
    1. A minimum of 3 verifiable transcribed college credits from the priority course list,
    2. 2 credits in AP courses and corresponding AP exams,
    3. 2 credits in IB standard level courses and corresponding IB exams.
  - D. The new SAT guidelines have not been released from the Indiana Department of Education.
  - E. Earn an ACT composite score of 26 or higher and complete written section
  - F. Earn 4 credits in IB courses and take corresponding IB exams.

## CORE40 With Technical Honors *(minimum 47 credits)*

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

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

## Warren Central High School/Walker Career Center Graduation Checklist

\_\_\_\_\_  
Last Name First Name M. Grad Year

\_\_\_\_\_  
Previous School (if applicable) CCR Area of interest/goals

Diploma Type: AHD\_\_\_\_\_ THD\_\_\_\_\_ C40\_\_\_\_\_ GEN\_\_\_\_\_ COC\_\_\_\_\_

Test Scores: ISTEP ENG \_\_\_\_\_ ISTEP MATH \_\_\_\_\_ PSAT WR \_\_\_\_\_ PSAT R \_\_\_\_\_ PSAT M \_\_\_\_\_

### Coursework Completed:

#### English

(8) \_\_\_\_\_ 9/1 \_\_\_\_\_ 9/2 \_\_\_\_\_ 10/3 \_\_\_\_\_ 10/4 \_\_\_\_\_ 11/5 \_\_\_\_\_ 11/6 \_\_\_\_\_ 12/7 \_\_\_\_\_ 12/8 \_\_\_\_\_

#### Math

(6 or 8) \_\_\_\_\_ Alg I/1 \_\_\_\_\_ Alg I/2 \_\_\_\_\_ Geom 1 \_\_\_\_\_ Geom 2 \_\_\_\_\_ Alg II/3 \_\_\_\_\_ Alg II/4 \_\_\_\_\_ (8 for AHD)

#### Science

(6) \_\_\_\_\_ Biology \_\_\_\_\_ (ICP , Chemistry, or Physics) \_\_\_\_\_ C40 Science \_\_\_\_\_

#### Soc. Studies

(6) \_\_\_\_\_ World Geography or History \_\_\_\_\_ U. S. History 1 \_\_\_\_\_ U.S. History 2 \_\_\_\_\_ Economics \_\_\_\_\_ Government \_\_\_\_\_

Phys. Ed. \_\_\_\_\_ Health \_\_\_\_\_ PE Electives (up to 6) \_\_\_\_\_

Directed Electives \_\_\_\_\_

(5)

Flex Credits \_\_\_\_\_

(8)

### AHD: (47 Credits)

World Lang \_\_\_\_\_ (6-8 for AHD)

Fine Arts \_\_\_\_\_ Speech \_\_\_\_\_ 2 AP /6 Dual Credits \_\_\_\_\_

GPA: \_\_\_\_\_ (2.67+) C- or better in all required courses \_\_\_\_\_

### THD: (47 Credits)

CCR Pathway \_\_\_\_\_ (6 for THD)

Industry Certification or 6 transcribed dual credits \_\_\_\_\_

A-F for AHD \_\_\_\_\_ or Work Keys \_\_\_\_\_ or Accuplacer \_\_\_\_\_ or Compass \_\_\_\_\_

GPA: \_\_\_\_\_ (2.67+) C- or better in all required courses \_\_\_\_\_

For current high school students, those graduating in 2019, 2020, 2021, and 2022, ISTEP 10/End of Course Assessments will continue to be used as the graduation qualifying examination. Schools should work towards allowing students in these cohorts to opt-in to a Graduation Pathway in lieu of the graduation qualifying exams.

Graduation Pathways Requirements	Graduation Pathways Options
<b>1. High School Diploma</b> <b>2. Learn and Demonstrate Employability Skills</b> (students must complete at least one of the following.)	<p><b>Meet the statutorily defined diploma credit and curricular requirements</b></p> <p>_____ <b>Project-Based Learning Experience:</b> working for an extended period of time to investigate and respond to an authentic, engaging and complex question, problem, or challenge. Students engage in a rigorous, extended process of asking questions, finding resources, and applying information. Students often make work public by explaining, displaying, and/or presenting it to people beyond the classroom.  <i>(course capstone, research project, Cambridge International Global Perspectives and Research, AP Capstone Assessment, other as approved by State Board of Education)</i></p> <p><b>Description:</b> _____  <b>Verification:</b> _____</p> <p>_____ <b>Service-Based Learning Experience:</b> integrates meaningful service to enrich and apply academic knowledge, teach civic and personal responsibility, and strengthen communities.</p> <ul style="list-style-type: none"> <li>• <i>Participation in a meaningful volunteer or civic engagement experience</i></li> <li>• <i>Engagement in a school-based activity, such as a co-curricular or extracurricular activity or sport for at least one academic year</i></li> <li>• <i>Other as approved by the State Board of Education</i></li> </ul> <p><b>Description:</b> _____  <b>Verification:</b> _____</p> <p>_____ <b>Work-Based Learning Experience:</b> a strategy to reinforce academic, technical, and social skills learned in the classroom through collaborative activities with employer partners. WBL experiences allow students to apply classroom theories to practical problems, to explore career options, and pursue personal and professional goals.</p> <ul style="list-style-type: none"> <li>• <i>Completion of course capstone</i></li> <li>• <i>Completion of an internship</i></li> <li>• <i>Obtaining the Governor's Work Ethic Certificate</i></li> <li>• <i>Employment outside the school day</i></li> <li>• <i>Other as approved by the State Board of Education</i></li> </ul> <p><b>Description:</b> _____  <b>Verification:</b> _____</p>
<b>3. Postsecondary-Ready Competencies (students must complete one of the following)</b>	<p>_____ <b>Honors Diploma</b>            AHD _____ THD _____ GPA _____ Credits _____</p> <p>_____ <b>ACT College Ready benchmarks (E 18, R 22, M 22, S 22)</b>            E _____ R _____ M _____ S _____</p> <p>_____ <b>SAT College Ready benchmarks (E 480, M 530)</b>            E _____ M _____</p> <p>_____ <b>ASVAB (minimum AFQT score to qualify for placement in US military)</b>            Score _____</p> <p>_____ <b>State and Industry recognized Credential or Certification</b>            _____</p> <p>_____ <b>CTE Concentrator (6 credits in career sequence with C average)</b>            _____ Total Average Grade: _____</p> <p>_____ <b>AP/IB/Dual Credit/CI or CLEP Exams: (earn a C average in at least 3 courses) ** must take AP Exam, at least one course must be in core content.</b>            _____ Total Average Grade: _____ Core class: _____ Exam _____</p>

## WCC CTE CONCENTRATOR PATHWAYS 2018-2019

Architectural Drafting		Automotive Collision			Automotive Service
9	Preparing for College & Careers	9	Preparing for College & Careers	9	Preparing for College & Careers
10	Computers in Design and Production or IED	10	Introduction to Transportation	10	Introduction to Transportation
11	Architectural Drafting I	11	Automotive Collision Repair I	11	Automotive Services Technology I
12	Architectural Drafting II	12	Automotive Collision Repair II	12	Automotive Services Technology II

Commercial Photography		Computer Networking			Computer Science
9	Preparing for College & Careers	9	Preparing for College & Careers	9	Preparing for College & Careers
10	Introduction to Communications	10	Computers in Design and Production	10	Computer Science I
11	Computer Illustrations and Graphics	11	Computer Tech Support	11	Computer Science II: Programing
12	Graphic Design & Layout AND Comm. Photography	12	Networking I	12	Computer Science II: Special Topics

Construction Trades		Cosmetology			Culinary Arts
9	Preparing for College & Careers	9	Preparing for College & Careers	9	Preparing for College & Careers AND Nutrition Well.
10	Introduction to Construction	10		10	Introduction to Culinary Arts
11	Construction Trades I	11	Cosmetology I	11	Culinary Arts and Hospitality I
12	Construction Trades II	12	Cosmetology II	12	Culinary Arts and Hospitality II: Culinary Arts

<b>Dental Careers</b>	
9	Preparing for College & Careers
10	
11	Health Science Education I
12	Dental Careers I

<b>Early Childhood Ed.</b>	
9	Preparing for College & Careers
10	Child Development AND Adv. Child Development
11	Early Childhood Education I
12	Work Based Learning

<b>Education Professions</b>	
9	Preparing for College & Careers
10	Child Development AND Adv. Child Development
11	Education Professions I
12	Education Professions II

<b>Electronics</b>	
9	Preparing for College & Careers
10	Computers in Design and Production
11	Electronics & Computer Technology I
12	Electronics & Computer Technology II

<b>Entrepreneurship</b>	
9	Preparing for College & Careers & Intro to Business
10	Principles of Marketing
11	Sports & Entertainment Marketing
12	Entrepreneurship & New Ventures

<b>Finance Academy</b>	
9	Preparing for College & Careers & Intro to Business
10	Introduction to Accounting, Business Law & Ethic's
11	Banking & Investment Careers (Intro), Global Econ.
12	Banking & Investment Careers (Adv.)

<b>Graphic Design</b>	
9	Preparing for College & Careers
10	Introduction to Communications
11	Computer Illustrations and Graphics
12	Graphic Design & Layout

<b>Health Science</b>	
9	Preparing for College & Careers
10	
11	Health Science Education I
12	Health Science Education II

<b>Marketing</b>	
9	Preparing for College & Careers & Intro to Business
10	Principles of Marketing
11	Sports & Entertainment Marketing
12	Strategic Marketing

<b>PLTW-Engineering</b>	
<b>9</b>	Preparing for College & Careers AND IED PLTW
<b>10</b>	Principles of Engineering
<b>11</b>	CIM, CEA, and/or DE
<b>12</b>	CIM, CEA, and/or DE

<b>PLTW-Biomedical</b>	
<b>9</b>	Preparing for College & Careers AND Prin. of Bio Sci.
<b>10</b>	Human Body Systems
<b>11</b>	Medical Interventions
<b>12</b>	Biomedical Innovations

<b>Precision Machine</b>	
<b>9</b>	Preparing for College & Careers
<b>10</b>	Introduction to Manufacturing
<b>11</b>	Precision Machining I
<b>12</b>	Precision Machining II

<b>Radio</b>	
<b>9</b>	Preparing for College & Careers
<b>10</b>	Interactive Media
<b>11</b>	Radio I
<b>12</b>	Radio II

<b>Television</b>	
<b>9</b>	Preparing for College & Careers
<b>10</b>	Interactive Media
<b>11</b>	TV I
<b>12</b>	TV II

<b>Welding</b>	
<b>9</b>	Preparing for College & Careers
<b>10</b>	Introduction to Manufacturing
<b>11</b>	Welding Technology I
<b>12</b>	Welding Technology II



# BUSINESS TECHNOLOGY DEPARTMENT

The Business Technology Department mission is to develop students' business attitudes, interest, and skills for employment in an ever-changing global society.

Personal Financial Responsibility or Digital Applications and Responsibility REQ. FRESHMAN COURSE		SOPHOMORE	JUNIOR	SENIOR
Web Design	→	Computer illustration and Graphics / Digital Applications & Responsibility	Web Design / Web Design Advanced	Computer Science II: Programming
Computer Science	→	Computer Science I	Computer Science II: Programming	Computer Science II: Special Topics
Finance Academy	→	Accounting	Banking and Investment Careers / Global Economics	Banking and Investment Careers - Advanced - Finance Academy
Marketing & Entrepreneurship	→	Accounting	Business Law and Ethics; Principles of Marketing	Sports and Entertainment Marketing; Entrepreneurship and New Ventures
Additional Electives	→	Digital Applications and Responsibility; Introduction to Business;	Principles of Marketing	Business Law and Ethics; Business Math

## Business/Career Tech Ed Classes

		SOPHOMORE	JUNIOR	SENIOR
Radio Broadcasting & Production	→	Radio Broadcasting & Production Intro / TV Broadcasting & Production Intro	Radio Broadcasting & Production 1-2	Radio Broadcasting & Production 3-4
TV Broadcasting & Production	→	TV Broadcasting & Production Intro / Radio Broadcasting & Production Intro	TV Broadcasting & Production 1-2	TV Broadcasting & Production 3-4
FrontRunner Media Productions	→	Students enrolled in TV Broadcasting & Production 1-2 & 3-4 will have the opportunity to work along side professionals, operate, and produce LIVE media productions in Walker Career Centers' state of the art mobile media production studio. Check us out at: <a href="http://gowithfronrunner.com">gowithfronrunner.com</a>		
Health Careers	→	Strongly Recommended: Grade 10 Chemistry	Health Science Education I	Health Science Education II: Nursing
	→	Strongly Recommended: Grade 10 Chemistry	Strongly Recommended: Health Science Education I	Dental Careers

## **PERSONAL FINANCIAL RESPONSIBILITY (2121) (2122)**

### **Grade 9 (one semester) Required freshman class**

Do you want financial power over your future? The financial tools gained in this class will help you build the lifestyle you want. Develop skills in saving, investing, banking, budgeting, and learn to manage credit card debt. This course combines real world and practical finance using online Virtual Business simulation to equip you with the knowledge to be successful in future finances.

## **DIGITAL APPLICATIONS AND RESPONSIBILITY (2231) (2232)**

### **Grades 10-12 this class can serve as a business elective.**

#### **NO PREREQUISITE**

**Digital Application skills for the 21<sup>st</sup> century learner are more important than ever before.** This course will give you the tools to prepare you for college or the workforce. Get practical, hands-on experience by creating documents, spreadsheets, as well as, creative visual presentations that can be used in an academic and work environment. This is a one semester course which will lay an excellent foundation for any computer course that a student may be interested in taking later in their high school career. **This course will give you the foundation you need to be successful in all courses you take in your high school career. Efficient use of technology is essential to increase employment opportunities and improve productivity**

## **INTRODUCTION TO BUSINESS (2101) (2102)**

### **Grade 9 (one semester)**

#### **NO PREREQUISITE**

Ever wonder how a business operates? Get your business basics through this introductory course. Whether you are planning a career in business or any other field, this class will provide you with a solid foundation into the world of business and marketing. This course **introduces students to the world of business, marketing, and entrepreneurship.** A wide variety of project-based activity, business simulations, and team building skills will be used to help develop practical decision-making skills. Join us, and become grounded in the business world!

## **PRINCIPLES OF MARKETING 1-2 (2901) (2902)**

### **Grades 10-12 this course can be taken one or both semesters.**

#### **Dual Credit Ivy Tech (3hrs) if two semesters are taken**

#### **NO PREREQUISITE**

Jump start your career by taking a course that will help you understand the world in which you work. This class will help students learn a basic introduction to the scope and importance of marketing in the global economy. Emphasis will be placed on oral and written communications, mathematical applications, problem-solving, and critical-thinking skills as they relate to selling, promotion, pricing, purchasing, marketing information management, product, distribution, financing, and risk management.

## **BUSINESS LAW & ETHICS (2601) (2602)**

### **Grades 10-11-12 this course can be taken one or both semesters and can be taken in different years.**

#### **Dual Credit Ivy Tech (3hrs) if two semesters are taken (1st and 2nd in the same school year)**

#### **NO PREREQUISITE**

Have you ever watched court television shows or the news? Did the terminology interest you? This course is designed to acquaint students with their legal rights and duties. It helps students to meet the demands of the everyday business world and to develop an understanding of personal rights and obligations in business situations. The course will expose the student to practical concepts in law, ethics, and the court system. Prior to taking this course, it would be beneficial for students to have taken Introduction to Business and Principles of Marketing. Students will participate in debates, article analysis, and written summaries, along with mock trial preparation and performance.

## **COMPUTER ILLUSTRATION & GRAPHICS (2241) (2242)**

### **Grades 10-11-12**

#### **Dual Credit Ivy Tech (3hrs) if two semesters are taken**

#### **NO PREREQUISITE**

Want to learn a unique software package that enables you to design and create flyers, newsletters, handouts, letterhead, brochures, and various other business documents? This one semester course will allow you to develop proficiency in using desktop publishing software. Through the use of sophisticated software such as Adobe In-Design, Illustrator, Photoshop, and Microsoft Publisher, students create professional documents for personal and business use. This course is especially recommended for students interested in Art, Journalism, and Graphic Design. The more software applications you know, the more you'll succeed in the workplace.

# BUSINESS PATHWAYS

Web Design	Computer Science	Finance Academy	Marketing	Entrepreneurship
Radio Broadcasting & Production	TV Broadcasting & Production	Nursing/CNA	Dental Assisting	

## WEB DESIGN

### **COMPUTER ILLUSTRATION & GRAPHICS (2241) (2242)**

**Grades 10-11-12**

**Dual Credit Ivy Tech (3hrs) if two semesters are taken**

**NO PREREQUISITE**

Want to learn a unique software package that enables you to design and create flyers, newsletters, handouts, letterhead, brochures, and various other business documents? This one semester course will allow you to develop proficiency in using desktop publishing software. Through the use of sophisticated software such as Adobe In-Design, Illustrator, Photoshop, and Microsoft Publisher, students create professional documents for personal and business use. This course is especially recommended for students interested in Art, Journalism, and Graphic Design. The more software applications you know, the more you'll succeed in the workplace.

### **DIGITAL APPLICATIONS AND RESPONSIBILITY (2231) (2232)**

**Grades 9 (one semester) Required freshman class (2<sup>nd</sup> Semester)**

**Grades 10-12 this class can serve as a business elective.**

**NO PREREQUISITE**

**Digital Application skills for the 21<sup>st</sup> century learner are more important than ever before.** This course will give you the tools to prepare you for college or the workforce. Get practical, hands-on experience by creating documents, spreadsheets, as well as, creative visual presentations that can be used in an academic and work environment. This is a one semester course which will lay an excellent foundation for any computer course that a student may be interested in taking later in their high school career. **This course will give you the foundation you need to be successful in all courses you take in your high school career. Efficient use of technology is essential to increase employment opportunities and improve productivity**

### **WEB DESIGN INTRO (2251) (2252)**

**Grades 10-11-12 (one semester)**

**NO PREREQUISITE**

Create your own Web Page! It is as easy as H T M L. Developing and designing a web page can be done on any computer with notepad++. Start your own web page or get hired to create one for someone else while in high school! You will work on various projects throughout this semester-long course that will be extremely useful for any personal sites you would like to create. To be eligible for dual credit, you must take this class fall semester followed by Advanced Web Design in the spring.

### **WEB DESIGN ADVANCED (2261) (2262)**

**Grades 10-11-12**

**Dual Credit Ivy Tech (3hrs) Beginning and Advanced Web Design completed in one school year**

**Prerequisite: Successful Completion of Web Design Intro**

Learn the latest advanced techniques for designing web pages. Students electing this course must have completed Beginning Web Design. Students in this course will use advanced programs to learn how to enhance, maintain, and publish more professional looking web pages using various software programs including the Macromedia Suite. Dual enrollment is available through Ivy Tech Community College if you take Beginning Web Design 1<sup>st</sup> semester.

## **COMPUTER SCIENCE II: PROGRAMMING (2161) (2162)**

**Grades 11-12**

**Prerequisite: Successful Completion of Computer Science I or Web Design**

Online gaming is no longer the “New” wave of the future, it is present day! This course will introduce students to a programming language geared towards creating programs on the internet. Though this language will be taught at an introductory level, students who have successfully completed Computer Science I and/or Beginning Web and /or Advanced Web, will have the foundation to enhance their programming skills.

## **COMPUTER SCIENCE**

### **COMPUTER SCIENCE I (2621) (2622)**

**Grades 10-11-12**

**Dual Credit Ivy Tech (3hrs) if two semesters are taken**

**NO PREREQUISITE**

So you want to be a game developer! Thousands of programmers do this on a daily basis and make a career out of it by making games for YOUR **Xbox, PS3, Wii, etc.** In order to program these types of games, you need to have a foundation in basic programming. Computer Programming will give you a jump start in your career to becoming a game developer. Don't just learn how to play the game, learn how to design the game! Don't just play, **CREATE!**

### **COMPUTER SCIENCE II: PROGRAMMING (2161) (2162)**

**Grades 11-12**

**Prerequisite: Successful Completion of Computer Science I or Web Design**

Online gaming is no longer the “New” wave of the future, it is present day! This course will introduce students to a programming language geared towards creating programs on the internet. Though this language will be taught at an introductory level, students who have successfully completed Computer Science I and/or Beginning Web and /or Advanced Web, will have the foundation to enhance their programming skills.

### **COMPUTER SCIENCE II: SPECIAL TOPICS (2171) (2172)**

**Grades 11-12**

**Prerequisite: Successful Completion of Computer Science II**

Are you ready to test your skills with real world applications? Are you ready to create, design, and develop programs to be utilized by others or for others? Put your money where your mouth is and put your skills to practical use.

## **FINANCE ACADEMY**

Do you want to learn more about money? Are you wondering what Financial Peace is all about? You will be good as gold as you learn how to invest in stocks, bonds, and real estate. Second semester in the Finance Academy, students take Global Economics which will detail the experiences of taxation, consumption, production, and political systems. There will be special emphasis on business and finance. Seniors in the Finance Academy learn what it takes to be successful in careers in business and finance! Learn from the experts in investing, banking, insurance, and accounting. In Finance Academy – Advanced, students will have the chance to meet and talk one on one with business professionals at luncheons and during guest-speaker sessions. Both semesters of this project and group-based class will help prepare you for college or a career. Admittance into Finance Academy will be subject to previous year's attendance, discipline, and academic records.

### **INTRODUCTION TO ACCOUNTING (2411) (2412)**

**Grades 10-11-12**

**NO PREREQUISITE**

Thinking you might study business in college or possibly become a business owner some day? If so, then this course is for you. You will learn accounting principles and procedures for proprietorships and corporations using a computerized, double-entry accounting system. This course is **strongly** recommended for students planning to major in business in college and is **required** for a Finance Academy certificate.

### **BANKING AND INVESTMENT CAREERS - INTRO (2941)**

**NO PREREQUISITE – Accounting is recommended**

**Grade 11 (fall semester)**

**\*\*Fulfills Quantitative Reasoning Requirement**

### **GLOBAL ECONOMICS (8752)**

**Dual Credit Through IPFW**

**Grade 11 (spring semester) Finance Academy Juniors Only**

**\*\*Fulfills Quantitative Reasoning Requirement**

**Prerequisite: Successful Completion of Banking and Investment Careers – Intro**

### **BANKING AND INVESTMENT CAREERS-ADVANCED (2911) (2912)**

**Grade 12**

**Semester 1 Dual Credit IPFW**

**Semester 2 Dual Credit (IUB) Indiana University – Kelley School of Business**

**\*\*Fulfills Quantitative Reasoning Requirement**

**Prerequisites: Successful completion of Banking and Investment Careers - Intro and teacher recommendation**

## **MARKETING**

### **PRINCIPLES OF MARKETING 1-2 (2901) (2902)**

**Grades 10-12 this course can be taken one or both semesters.**

**Dual Credit Ivy Tech (3hrs) if two semesters are taken**

**NO PREREQUISITE**

Jump start your career by taking a course that will help you understand the world in which you work. This class will help students learn a basic introduction to the scope and importance of marketing in the global economy. Emphasis will be placed on oral and written communications, mathematical applications, problem-solving, and critical-thinking skills as they relate to selling, promotion, pricing, purchasing, marketing information management, product, distribution, financing, and risk management.

### **SPORTS AND ENTERTAINMENT MARKETING (2301) (2302)**

**Grades 11-12 this course can be taken one or both semesters.**

**Dual Credit Ivy Tech (3hrs) if two semesters are taken**

**NO PREREQUISITE**

Sports and Entertainment Marketing is a unique and innovative course designed for students with an interest in either sports or entertainment marketing. Students will develop an understanding of the concepts and theories relating to the various aspects of the sports and entertainment business. They will apply marketing principles and study the economic impact of sports and entertainment, endorsements, sponsorships, product development, licensing, image, sales, promotion, pricing and more. Through extensive participation in interactive group projects and case studies, students will experience product development, event marketing, market analysis and executive-level decision-making. Students need to be able to communicate well, work in teams, **and be willing to volunteer at some sporting events.**

### **Strategic Marketing 1-2 (2311) (2312)**

**Grade 12**

**Dual Credit Ivy Tech (3hrs) if two semesters are taken**

**PREREQUISITE: Must have successfully completed 1 year of Principal**

Strategic Marketing builds upon the foundations of marketing and applies the functions of marketing at an advanced level. Students will study basic principles of consumer behavior and examine the application of theories from psychology, social psychology, and economics. The relationship between consumer behavior and marketing activities will be reviewed. This is a heavily project based course. Students must be willing to participate on project teams and make presentations.

- A Core 40, Academic Honors & Technical Honors elective
- Required Prerequisites: second semester of either Principles of Marketing or Sports Marketing or a combination of these two
- Grade 12

## **ENTREPRENEURSHIP**

### **INTRODUCTION TO ACCOUNTING (2411) (2412)**

**Grades 10-11-12**

**NO PREREQUISITE**

Thinking you might study business in college or possibly become a business owner some day? If so, then this course is for you. You will learn accounting principles and procedures for proprietorships and corporations using a computerized, double-entry accounting system. This course is **strongly** recommended for students planning to major in business in college and is **required** for a Finance Academy certificate.

### **BUSINESS LAW & ETHICS (2601) (2602)**

**Grades 10-11-12 this course can be taken one or both semesters and can be taken in different years.**

**Dual Credit Ivy Tech (3hrs) if two semesters are taken (1st and 2nd in the same school year)**

**NO PREREQUISITE**

Have you ever watched court television shows or the news? Did the terminology interest you? This course is designed to acquaint students with their legal rights and duties. It helps students to meet the demands of the everyday business world and to develop an understanding of personal rights and obligations in business situations. The course will expose the student to practical concepts in law, ethics, and the court system. Prior to taking this course, it would be beneficial for students to have taken Introduction to Business and Principles of Marketing. Students will participate in debates, article analysis, and written summaries, along with mock trial preparation and performance.

### **ENTREPRENEURSHIP & NEW VENTURES CAPSTONE (2931) (2932)**

**Grades 10-11-12 this course can be taken one or both semesters and can be taken in different years.**

**Dual Credit Ivy Tech (3hrs) if two semesters are taken (1st and 2nd in the same school year)**

**NO PREREQUISITE**

Would you like to be your own boss? Are you a self-starter? Are you motivated? Do you want to be financially successful? If you answered these questions with a yes, then you would be well served to take this course before you graduate from high school. This course is designed to help students develop a written business plan with emphasis on entrepreneurial responsibilities, financial background, teamwork and leadership skills, as well as how to make quick, daily, business decisions. Students also create a model of their future business inside of a shoe or copy paper box. Students will develop documents to market their business. Prior to taking this class, it is recommended that students take Introduction to Business and/or Principles of Marketing as well as Digital Applications. There will be documents and spreadsheets to create and manipulate, so typing speed will play a large role in the class.

## **RADIO BROADCASTING & PRODUCTION**

**To begin in broadcasting, students must take one semester of Radio and one semester of TV (Interactive Media).**

### **Interactive Media (2801) (2802)**

**Grades 9-12 (YEAR LONG)**

**NO PREREQUISITE**

This class introduces you to the fundamentals of radio broadcasting and digital audio production. Activities include learning how to operate broadcast-quality equipment, producing public service announcements and station promos, news casting, interviewing, and multi-track audio production for the purpose of radio broadcasting. The ability to read aloud comfortably and confidently is required. Students will be exposed to voice and diction practice and basic oral reading techniques, as they produce sound tracks in practice studios.

## **RADIO I (2821) (2822)**

**Grades 11-12 Prerequisite:** To be eligible for this course, you must satisfactorily complete Interactive Media (2801/2802). Teacher recommendation required. Students enrolled in this course are required to participate in after school events and/or activity coverage.

**PREREQUISITE:** Successfully completed Interactive Media

Radio Broadcasting & Production takes you inside all aspects of radio broadcasting and digital audio production. The student will acquire skills while hosting shows on 91.1 WEDM and producing other creative audio projects while working with current software used in radio and audio production. Students will also be given opportunities to create music mixes and be involved in radio sports-casting and news-casting. All studios have broadcast-quality equipment. You will be given the opportunity to call play-by-play for varsity football and varsity basketball games. You are required to host before and/or after school air shifts.

## **RADIO II (2831) (2832)**

**Grades 11-12 Prerequisite:** Teacher Recommendation required

**Students enrolled in this course are required to participate in after school events and/or activity coverage.**

**PREREQUISITE:** Successfully completed Radio I

Radio Broadcasting & Production takes you inside all aspects of radio broadcasting and digital audio production. The student will acquire skills while hosting shows on 91.1 WEDM and producing other creative audio projects while working with current software used in radio and audio production. Students will also be given opportunities to create music mixes and be involved in radio sports casting and news-casting. All studios have broadcast-quality equipment. You will be given the opportunity to call play-by-play for varsity football and varsity basketball games. You are required to host before and/or after school air shifts.

## **TV BROADCASTING & PRODUCTION**

**To begin in broadcasting, students must take one semester of Radio and one semester of TV (Interactive Media).**

### **Interactive Media (2801) (2802)**

**Grades 9-12 (YEAR LONG)**

**NO PREREQUISITE**

This class introduces you to the fundamentals of radio broadcasting and digital audio production. Activities include learning how to operate broadcast-quality equipment, producing public service announcements and station promos, news casting, interviewing, and multi-track audio production for the purpose of radio broadcasting. The ability to read aloud comfortably and confidently is required. Students will be exposed to voice and diction practice and basic oral reading techniques, as they produce sound tracks in practice studios.

### **TV I (2841) (2842)**

**Grades 11-12 Prerequisite:** To be eligible for this course, you must satisfactorily complete both Interactive Media. or receive Teacher Recommendation. **STUDENTS ENROLLED IN THIS COURSE ARE REQUIRED TO PARTICIPATE IN AFTER SCHOOL EVENTS AND/OR ACTIVITY COVERAGE TO REMAIN IN THE PROGRAM.**

**Dual Credit Ivy Tech (3hrs) available if two semesters are taken**

**PREREQUISITE:** Successfully completed Interactive Media It is time to put into action what you've learned in Interactive Media (2801) (2802). During this two-hour per-day class you will increase your production skills while working in a project-based, hands-on environment. Starting out with advanced sequencing and composition assignments; progressing through the art of storytelling and culminating with the production of your short movie, this class will prepare you for the next level production class.

### **TV II (2851) (2852)**

**Grades 11-12 Prerequisite:** Teacher Recommendation required. **STUDENTS ENROLLED IN THIS COURSE ARE REQUIRED TO PARTICIPATE IN AFTER SCHOOL EVENTS AND/OR ACTIVITY COVERAGE TO REMAIN IN THE PROGRAM.** **Dual Credit Ivy Tech (3hrs) available if two semesters are taken**

**PREREQUISITE:** Successfully completed TV I

Lights...camera...action! Welcome to the fast-paced world of media production. This class will expand upon what you've already learned and put you in control of our school's television station, WCTV (STUDENTS ARE REQUIRED TO BE AT SCHOOL BY 7:00 IN ORDER TO PARTICIPATE IN WCTV/MORNING ANNOUNCEMENTS OR HAVE THE POSSIBILITY OF BEING REMOVED FROM THE PROGRAM). You will be responsible for creating content for the morning announcements and many other outlets, including working on cable shows and the senior video. The class also provides video services for other departments around the school and throughout the township. Students will also have the opportunity to work side-by-side with broadcasting professionals through our very own production company, Front Runner Media Productions. This class is conducted within a real-life, professional workplace atmosphere. Get a jump start on a career in TV and media productions. Students should have successfully completed "TV I" and have prior approval of the instructor before signing up for this course. Students must sign up for at least two (2) after school shooting events per semester to remain enrolled in the class.

## **NURSING CNA**

### **HEALTH SCIENCE EDUCATION I (2961) (2962)**

**Grade 11 – 2 Hours**

**Dual Credit Ivy Tech (6hrs) if two semesters are taken**

**NO PREREQUISITE**

Health Science Education is open to juniors interested in careers within the medical related fields. The class is designed to introduce the students to the basic foundations related to the vast array of medical careers, with a minor focus on individual requirements necessary for related occupations. Health Science gives the student the opportunity to explore a number of health related careers through guest speakers and field trips. Students will learn entry-level skills in a lab environment. A strong science and math foundation is important, and successful completion of Biology 1-2 is required. Dual credit is available to Ivy Tech Community College to those demonstrating competency at mandated levels.

### **HEALTH SCIENCE EDUCATION II: NURSING (2971) (2972)**

**Grade 12 – 3 Hours (fall semester)**

**Dual Credit Ivy Tech (5hrs) if two semesters are taken**

**PREREQUISITE-Successful Completion of Health Science I**

**Students are selected based on a uniform rubric**

The Health Science course is open to seniors who have successfully completed Introduction to Health Science Education 1. The course content includes competencies that prepare the student for specific occupations within the health care system such as nursing assistant and pharmacy tech. This is a three-hour class. **Students are responsible for purchasing uniforms to participate in practicum. Students will be required to have a physical and required immunizations.**

The program offers valuable exposure to students pursuing professional or technical health careers. The curriculum offers medical clerical training and the student has an opportunity to advance learning in their chosen field or explore a variety of health careers. The focus is on classroom, laboratory, clinical, and on-the-job training provided during school hours. **STUDENTS ARE RESPONSIBLE FOR THEIR OWN TRANSPORTATION TO AND FROM PRACTICUM SITE.** Students will be evaluated on attendance, grades, and discipline before moving on to semester two when students serve their clinical experience. A criminal history check is required and will be evaluated for placement in practicum site.

## **DENTAL ASSISTING**

### **DENTAL CAREERS I (2981) (2982)**

**Grade 12 – 3 Hours**

**Dual Credit Ivy Tech (6hrs)**

**NO PREREQUISITE – Health Careers I is strongly suggested**

The Dental Careers Program, open to seniors only, is an exciting yet rigorous course in a professional, career-oriented atmosphere. Students are instructed in dental anatomy, terminology, instruments, materials, and more with a “hands-on” approach to dental procedures in the simulated dental office classroom. Work experience becomes a part of the program both first semester with a rotation in the Jane Pauley Dental Clinic, as well as second semester with a 9-week internship with a community dental office. A strong science and math background is a plus. **STUDENTS ARE REQUIRED TO PURCHASE DENTAL SCRUBS AND ARE RESPONSIBLE FOR THEIR OWN TRANSPORTATION TO AND FROM THE PRACTICUM SITE. Students must satisfactorily complete semester one at required levels both academically and with attendance before moving on to semester two when students serve their clinical experience. A criminal history check is required and will be evaluated for placement in practicum site. Hepatitis B and tuberculosis immunizations required for clinical placements.**



# ENGINEERING & TECHNOLOGY EDUCATION

The mission of the Engineering & Technology Education Department is to provide opportunities for all students to develop technical, academic, and employability skills which prepare them to pursue their college and career choices as productive citizens.

CAREER GOAL	FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
Architecture	I.E.D. (Non PLTW)	Computers in Production Design	Architectural Drafting I	Architectural Drafting II
Automation and Robotics	I.E.D. (Non PLTW)	Introduction to Manufacturing	Industrial Automation & Robotics	Precision Machining I
Automotive Technology	I.E.D. (Non PLTW)	Introduction to Transportation	Auto Service Technology I	Auto Service Technology II
Collision Repair	I.E.D. (Non PLTW)	Introduction to Transportation	Automotive Collision I	Automotive Collision II
Computer Tech Support	I.E.D. (Non PLTW)	Computers in Production Design	PC Tech Support	Networking I
Electronics	I.E.D. (Non PLTW)	Computers in Production Design	Electronics & Comp. Tech I	Electronics & Comp. Tech II
Engineering	I.E.D. (PLTW)	Principles of Engineering	CIM and/or DE and/or CEA	CIM, DE, CEA, and/or EDD
Graphic Design	I.E.D. (Non PLTW)	Introduction to Communications	Graphic Design and Layout	Graphic Imaging Technology
Machining	I.E.D. (Non PLTW)	Introduction to Manufacturing	Precision Machining I	Precision Machining II
Photography	I.E.D. (Non PLTW)	Introduction to Communications	Media Arts	Commercial Photography
Welding	I.E.D. (Non PLTW)	Introduction to Manufacturing	Welding I	Welding II

Course Sequence for 2018-2019

1 hour electives:

Robotics- Principles of Engineering (NON-PLTW)

## **PRE-ENGINEERING PROJECT LEAD THE WAY**

Project Lead the Way, Pre-Engineering, is a four-year sequence of engineering courses which, when combined with traditional mathematics and science courses in high school, introduces students to the scope, rigor, and discipline of a career in engineering. It is highly suggested that students wishing to enter this program have competent math skills.

Foundation Courses:	Introduction to Engineering Design (IED) Principles of Engineering (POE)*
Specialized Courses:	Computer Integrated Manufacturing (CIM)* Civil Engineering /Architecture (CEA)* Digital Electronics (DE)*
Capstone Course:	Engineering Design & Development (non-PLTW) (EDD)

The nationally recognized Project Lead the Way (PLTW) courses all provide students the opportunity to earn college credits through various affiliated PLTW universities and dual credits through Ivy Tech Community College. \*Courses are weighted like AP classes (A = 4.33/4.00 scale). Students must complete foundation courses with a C or better before taking any specialized courses. The capstone course is for seniors who have completed at least 3 other PLTW courses and have an instructor recommendation.

## **FOUNDATION COURSES**

### **INTRODUCTION TO ENGINEERING DESIGN (IED) (5261) (5262)**

**Grades 9-10-11-12 (both semesters required)**

**Dual Credit: Ivy Tech**

**Prerequisites: Students entering as freshmen need to be enrolled in Geometry.**

IED is the first course in the Pre-Engineering Program at the Walker Career Center. This course focuses on taking a need and finding (engineering) a solution to it using a design process. Students will dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software and use an engineering notebook to document their work. The software used will allow you to present and animate your design just like a professional engineer. You will have the opportunity to work on a wide variety of real life scenarios as you enter the exciting world of design and engineering. Along with a focus on the field of design engineering, students will be given the opportunity to explore the basics of mechanical, structural, electrical, programming, and robotics engineering. Students who take this course will have the opportunity to earn dual college credits.

### **PRINCIPLES OF ENGINEERING (POE) (5271) (5272) Weighted**

**Grades 10-11-12 (both semesters required)**

**Dual Credit - Ivy Tech**

**Prerequisite: A C or better in Introduction to Engineering Design (IED) 1-2 or concurrent enrollment in Introduction to Engineering Design (IED) 1-2 and Principles of Engineering (POE) 1-2**

Students in Principles of Engineering (POE) work in engineering teams to design, build, and test solutions to a wide variety of real world problems. This course is lab-intensive as students spend much time building solutions in areas like simple machines, electricity, marble colors, ping pong ball launchers, and truss designs. Students will learn to build and program their own robots in this class. Students who take this course will have the opportunity to earn dual college credits from Ivy Tech University.

## **SPECIALIZED COURSES**

**Prerequisites: C or better Introduction to Engineering Design (IED) 1-2 AND C or better in Principles of Engineering (POE) 1-2 or concurrent enrollment in Principles of Engineering (POE) 1-2 or Dept. Chair recommendation**

### **COMPUTER INTEGRATED MANUFACTURING (CIM) (5361) (5362) Weighted**

**Grades 11-12 (Full Year)**

**Dual Credit - Ivy Tech**

**Prerequisites: See Above**

Manufactured items are part of everyday life, yet most students have not been introduced to the high-tech, innovative nature of modern manufacturing. This course highlights the opportunities related to understanding manufacturing. At the same time, it teaches students about manufacturing processes as they relate to product design. This course focuses on Robotics, Control Systems (PLCs), Computer Aided Design (CAD)/Computer Aided Manufacturing (CAM), Computer Numerical Control (CNC), and Automation. This path builds on and applies a wide variety of skills learned in your previous pre-engineering courses. Students can earn a virtual manufacturing badge recognized by the National Manufacturing Badge system. Students who take this course will have the opportunity to earn dual college credits from Ivy Tech University.

### **CIVIL ENGINEERING & ARCHITECTURE (CEA) (5281) (5282) Weighted**

**Grades 11-12 (Full Year)**

**Dual Credit - Ivy Tech**

**Prerequisites: See Above**

Civil Engineering and Architecture (CEA) 1-2 is a one-hour course that introduces students to the interdependent fields of civil engineering, structural engineering, and architecture. This is a course student will want to enroll in if they are interested in residential architecture, urban planning, historic preservation, community planning, and light commercial development. Students who take this course will have the opportunity to earn dual college credits from various post-secondary schools.

### **DIGITAL ELECTRONICS (DE) (5351) (5352) Weighted**

**Grades 11-12 (Full Year)**

**Dual Credit – Vincennes University**

**Prerequisite: See Above**

Students will learn logic through work with electronic circuitry which students will simulate on a computer and build on a breadboard. Students will design and build a random generator circuit, majority vote circuit, copier jam circuit, toll gate circuit, and other circuits. Students will program an Arduino board to do a variety of tasks. Students will also gain an understanding of the digital concepts used in all other PLTW Engineering classes. Students who take this course will have the opportunity to earn dual college credit from Vincennes University.

## **CAPSTONE COURSE**

### **ENGINEERING DESIGN AND DEVELOPMENT (non-PLTW) (5591) (5592)**

**Grades 12 (Full Year)**

**Prerequisites: B or better in at least 3 PLTW courses, teacher recommendation, and Dept. Chair recommendation**

Engineering Design and Development (non-PLTW) is an engineering research course in which students work in independent teams to research, design, test and construct a solution to an open-ended engineering problem. The product development life cycle and a design process are used to guide the team to reach a solution to the problem. The EDD course allows students to apply all the skills and knowledge learned in previous pre-engineering courses. Students in this class are looking for the guidance to design that project they have always thought about.

**Grades 9 - 12**  
**ENGINEERING & TECHNOLOGY**

**INTRODUCTION TO ENGINEERING DESIGN (non-PLTW) (5581)**

**Grades 9-10-11-12 (one semester)**

**Dual Credit: Ivy Tech**

**Prerequisites: None**

In this course students will explore technical career options available after high school. Through hands-on activities, students will experience Drafting, Construction, Manufacturing, and Engineering. Topics include: Basic Hand Drawings, 2D Drawing, Residential Construction, Site Preparation, Wall Foundations, Basic Framing, Layout of Design, Welding, Lathe Turning Engineering Design, Computer Programming, and Mechanical Machines.

This class meets one period every day for a semester and is worth one credit toward all diploma options.

**INTRODUCTION TO ENGINEERING DESIGN (non-PLTW) (5582)**

**Grades 9-10-11-12 (one semester)**

**Dual Credit: Ivy Tech**

**Prerequisites: None**

In this course, students will explore technical career options available after high school. Through hands-on activities students will experience Graphic Design, Auto Collision and Repair, Electronics, and Communication. Topics include: History of Automobiles, Video Production, Basic Engine Theory, and Introduction to Electronics, Air Brushing, Graphic Design, Pod Cast, and Screen Printing.

This class meets one period every day for a semester and is worth one credit toward all diploma options.

**INTRODUCTION TO COMMUNICATIONS (5681) (5682)**

**Grades 10-11-12 (Full Year)**

**Prerequisites: None**

This course provides an introduction to the tools, procedures, concepts, and application of photographic imaging. Students will explore the techniques and applications of acquiring, manipulating, and outputting digitized photographic images utilizing Adobe Photoshop. Students will also create images to meet the requirements of a series of assignments designed to develop specific skills, points of view, and stimulate the students' creative capacities for personal expression, communication, and self-understanding.

**COMPUTERS IN DESIGN & PRODUCTION (5301) (5302)**

**Grades 10-11-12 (Full Year)**

**Dual Credit - Ivy Tech**

**Prerequisites: None**

Computers in Production & Design is an introduction to CAD, Layout and Design, Pre-Engineering concepts, Print Reading, and programs related to Engineering and Technical Education. Students will learn how to solve and critically evaluate problems in product design and concepts related to manufacturing and materials processes.

**INTRODUCTION TO CONSTRUCTION (5691) (5692)**

**Grades 10-11-12 (Full Year)**

**Dual Credit: None**

**Prerequisites: None**

You could become one of the top home builders in the State of Indiana or just someday build your own dream house. Your foundation for learning how begins with Introduction to Construction which is a part of the Engineering and Technology Career Cluster. During this two semester course, you will be given the necessary information and opportunities to gain a working knowledge of construction and develop fundamental skills related to the use of tools and materials. As you explore the world of construction, you will build scale models and actual size structures related to the course content that includes: blueprint reading, surveying, masonry, carpentry, roofing, electrical, plumbing, heating, and air conditioning, drywall, painting, and interior trim.

There are no prerequisites for this class. However, it is recommended that students planning to take Construction Trades junior/senior years take this course during their sophomore year. This class will meet five days a week for one period and one credit can be earned per semester.

**INTRODUCTION TO MANUFACTURING (5251) (5252)****Grades 10-11-12 (Full Year)****Dual Credit: None****Prerequisites: None**

There are no prerequisites for this class. Students planning to take Construction Trades or Welding Technology are advised to take this course during their sophomore year. Introduction to Manufacturing focuses on precision machining and welding, manufacturing tools, materials, and processes. The course introduces students to manufacturing processes including forming, fabricating, conditioning, and finishing for metals, woods, plastics, and other materials. This class will meet five days a week for one period and one credit can be earned per semester.

**INTRODUCTION TO TRANSPORTATION (5671) (5672)****Grades 10-11-12 (Full Year)****Dual Credit: None****Prerequisites: None**

This course will introduce students to the design process and gain the skills necessary to design and construct personal vehicles. Introduction to Transportation is a course that will focus on different forms of Transportation, History of Transportation, Small Engines, Alternative Fuel Energy, Super Mileage Vehicle, Air Brushing, and Energy and Power. Students taking this course will have the opportunity to compete in the Indiana Super Mileage Engineering Challenge.

There are no prerequisites for this class. However, it is recommended that students planning to take Auto Service and Auto Collision junior/senior years take this course during their sophomore year. This class will meet five days a week for one period and one credit can be earned per semester.

**CAREER & TECHNICAL EDUCATION COURSES**  
**(2-3 HOURS)****ARCHITECTURAL DRAFTING AND DESIGN I (5331) (5332)****Grades 11-12 (2 periods per day- Full Year)****Dual Credit: Ivy Tech****Prerequisites: None**

This class will cover both engineering and architectural CAD techniques. Students will learn how to take a design sketch and turn it into a technical drawing that can be used to build a home or large commercial structure. Students will also go through the model and presentation development phase for designing buildings.

**ARCHITECTURAL DRAFTING AND DESIGN II (5341) (5342)****Grades 11-12 (2 periods per day- Full Year)****Dual Credit: Ivy Tech****Prerequisite: Architectural Drafting and Design I**

Sign up for this class if you are planning on a career in engineering, architecture, or design. Work on industry-related projects and create your own designs. Students have designed their own house plans and product revisions and worked with local companies on drawings that needed to be updated. This is a great class to get practical hands-on experience in the career fields of engineering, architecture, and design.

**AUTOMOTIVE COLLISION REPAIR I (5741) (5742)****Grades 10-11-12 (2 periods per day- Full Year)****Dual Credit – Vincennes University****Prerequisite: None**

Automotive Collision Repair I will give you the basic skills you will need. Dent repair, parts replacement, painting, and final detailing are the main focus of this class. Hands-on and classroom activities will enhance your collision repair skills. Employment opportunities include estimator, shop manager, shop owner, and body-paint technician. There are no prerequisites for this class; however, it is recommended that students complete Introduction to Transportation before signing up.

**AUTOMOTIVE COLLISION REPAIR II (5751) (5752)****Grades 11-12 (2 periods per day- Full Year)****Dual Credit – Vincennes University****Prerequisite: Auto Collision Repair I**

This class requires successfully completing Auto Collision Repair. Students will refine their basic skills as well as expanding their knowledge in Welding, Frame Repair, and Damage Analysis. Live/hands-on work on customer vehicles is the focus of this class. Students may also earn the right to repair their own vehicle. Custom painting, flames, and airbrushing are also covered.

**AUTOMOTIVE SERVICES TECHNOLOGY I (5761) (5762)****Grades 11-12 (2 periods per day- Full Year)****Dual Credit – Ivy Tech****Prerequisites: None**

This class is designed to help students begin a career in the automotive service industry. There are no prerequisites for this class; however, it is recommended that students complete Introduction to Transportation before signing up. The program is certified by the National Automotive Technicians Education Foundation (NATEF) and is designed to help students gain Automotive Service Excellence (ASE) certification. Students also have the opportunity to earn college credits through Ivy Tech Community College after completing Auto Service Technology I.

**AUTOMOTIVE SERVICES TECHNOLOGY II (5771) (5772)****Grades 12 (3 periods per day- Full Year)****Dual Credit – Ivy Tech****Prerequisite: Auto Service Technology I**

In the Automotive Service Technology II class, you will build on what you learned in Automotive Service Technology I. We expand on all topics of today's automobile to better prepare you for the industry. Automotive Technicians are highly skilled and in high demand with competitive wages. In addition to the three credits per semester, college credits are available for those students who succeed in completion of Automotive Service Technology II. In the second semester, we also have job placement opportunities for students to earn credits while working in the automotive field.

This program is certified by the National Automotive Technicians Education Foundation (NATEF) and counts as one year experience toward achieving your Automotive Service Excellence (ASE) certification. Students also have the opportunity to earn college credits through Ivy Tech Community College.

**COMMERCIAL PHOTOGRAPHY (5231) (5232)****Grades 11-12****Dual Credit: None****Prerequisite: Media Arts I/II or Introduction to Communications.**

This class will provide an introduction to advanced techniques, tools, procedures, and concepts of photographic imaging, with an emphasis on digitized photography as fine art. Alternative processes will be discussed and demonstrated, and students will apply these techniques to project or series-orientated assignments. The aim of this project approach is to expand students' creative capacities for self-understanding, personal expression, and communication. Students will be required to assemble a portfolio of finished work reflecting personal and educational goals.

**CONSTRUCTION TRADES I (5781) (5782)****Grades 11-12 (2 periods per day- Full Year)****Dual Credit - Ivy Tech****Prerequisite: None (Intro to Construction is recommended)**

In Construction Trades I, students learn from the ground up through a hands-on experience building a custom home in a residential subdivision. Students will be involved in carpentry, roofing, insulation, painting, drywall, masonry, plumbing, electrical, heating and cooling. Introduction to Construction is recommended, as well as basic math and geometry. A total of four credits can be earned by taking Construction Technology I. Each student-built house will be completed over a two-year period. Students who finish a house their junior year will begin a house their senior year. All necessary tools will be provided.

**CONSTRUCTION TRADES II (5791) (5792)****Grades 12 (3 periods per day- Full Year)****Dual Credit - Ivy Tech****Prerequisite: Construction Trades I**

The prerequisite for this course is Construction Trades I. This class will meet 3 periods each day each semester. A total of six credits can be earned by taking Construction Technology II. This course is a continuation of Construction Trades I. Students will be involved in the completion of a home or start a new custom-built residence. All additional training and task completion will be in a job-like environment. Seniors will be able to develop additional knowledge and skills related to specific trades and explore career options.

Students who successfully complete Construction Trades I-II may continue their education through post-secondary schools and apprenticeships. Ivy Tech, Vincennes University, Ball State University, IUPUI, and Purdue University offer varying degrees in engineering, building technology, construction management, and architecture.

**ELECTRONICS & COMPUTER TECHNOLOGY I (5861) (5862)****Grades 11-12 (2 periods per day- Full Year)****Dual Credit – Vincennes University****Prerequisite: None**

Students will have the opportunity to be trained as fire and security technicians through Koorsen Fire and Safety. Students will learn how to design and install automated and technology systems that go into homes and businesses. Activities will include a focus on low voltage wiring, systems integration, telecommunications standards, and exposure to a range of residential technologies including: audio/video systems, home and commercial security, and surveillance systems.

Students will have the opportunity to gain employment at fire and safety corporations such as Koorsen. Students will be eligible to take the Electronic Systems Technician (EST) certification exam. Employers in the custom electronics industry are looking for employees with EST certification. Classroom and laboratory experiences will allow students to begin their career preparation in the fundamental concepts of Direct Current Basics, personal computers, EST, and will incorporate safety, technical writing, mathematical concepts, and customer service. You will have the opportunity to compete in electronics competitions through Skills USA and earn college credit in this class!

**ELECTRONICS & COMPUTER TECHNOLOGY II (5871) (5872)****Grades 12 (2 periods per day- Full Year)****Dual Credit – Vincennes University****Prerequisite: Electronics & Computer Technology I**

Course content will include basic theories of electricity, electronics, digital technology, and basic circuit analysis. Activities include experiences in: soldering; use of an oscilloscope, meters, signal generators and tracers; bread-boarding; circuit simulations software; and troubleshooting. Understanding and using the underlying scientific principles related to electricity, electronics, circuits, sine waves, and Ohm's Law are integral to this course.

Students will receive instruction for cleaning computers for viruses, malware, Trojans, and spyware from Windows Vista, Windows 7, and Windows 10. Students will have the opportunity to take the A+ certification exam, compete in computer competitions through Skills USA, and earn college credit in this class!

**COMPUTER TECH SUPPORT (5711) (5712)****Grades 11-12 (2 periods per day- Full Year)****Dual Credit – Vincennes University****Prerequisite: None**

This program will provide students with the knowledge of how computers work. Students will learn how to check and clean the computer for viruses, malware, Trojans, and spyware, how to repair computers, and be eligible to take the A+ certification exam. Employers are looking for employees with A+ certification!

Windows Vista, Windows 7, and Windows 10 will be covered. Students will learn how to replace and install components such as: motherboards, memory, power supplies, CD/DVD drives, hard drives, video cards, all network interface cards, CMOS batteries, LCD screens, etc. Students will be eligible to compete in competitions through Skills USA and earn college credits.

**NETWORKING I (5721) (5722)****Grades 12 (2 periods per day- Full Year)****Dual Credit – Vincennes University****Prerequisite: Computer Tech Support**

This course continues the Computer Networking Program taken in Computer Tech Support to include the Network+ and EST certification exams. Students will design, install, maintain, and manage both local and wide-area networks. Activities include a combination of classroom instruction, e-learning, and laboratory practices that develop skills in network administration and configurations, problem diagnosis and troubleshooting, system control and maintenance, and upgrades. Additional areas of emphasis should include data backup and system security. This class will prepare students to compete in the Cyber-Patriot competition.

Students will have the opportunity to be certified by taking the Network+ and Electronic Systems Technician (EST) exams. Students will also have the opportunity to compete in competitions through Skills USA and Cyber-Patriot and earn college credit.

**GRAPHIC DESIGN AND LAYOUT****(5841) (5842) 1HR (5845) (5846) 2HR****Grades 11-12 (both semesters required) 1 or 2 credits per semester/ 1 or 2 periods per day****Dual Credit – Vincennes University****Prerequisite: None**

Willing to think and work hard? This class offers you the chance to design and screen your own T-shirt and make personalized memo pads allowing you to step through some of those behind-the-scenes processes that go into making the printed object.

Students will also be doing “live production work”, which are actual printed materials used by the schools. This will help build and reinforce real, marketable skills. There are no prerequisites for this course; however, it is recommended for students looking for marketable skills in commercial art and journalism.

**GRAPHIC IMAGING TECHNOLOGY****(5401) (5402) 1HR (5411) (5412) 2HR****Grades 12 (2 periods per day- Full Year)****Dual Credit – Vincennes University****Prerequisite: Graphic Design and Layout**

Students will be doing “live production work,” which are actual printed materials used by the schools. This will help build and reinforce real, marketable skills. Your marketable skills will be honed, making you a more valuable employee, one who employers will be happy to keep. This course also greatly benefits those interested in commercial arts and journalism.

**PRECISION MACHINING I****(5821) (5822)****Grades 11-12 (2 periods per day- Full Year)****Dual Credit – Vincennes University**

Precision Machine Technology I offers students the opportunity to gain experience and knowledge of the Machine Trades Industry in a shop environment with a strong emphasis on safety. Students learn how to successfully operate industry standard machine tooling including: the lathe, vertical machining center, drill press, band-saw, and surface grinder. In addition to machine tool operation, students are taught the use of precision measuring equipment including; micrometers, calipers, height gauges and a variety of other shop-related measuring instruments. There is no prerequisite for entrance into the Machining Program; however, it is recommended that students take Introduction to Manufacturing prior to entrance into the program.



## **WELDING TECHNOLOGY I**

**(5881) (5882)**

**Grades 11-12 (2 periods per day- Full Year)**

**Dual Credit – Ivy Tech**

**Prerequisite: None**

Currently, the United States is in a skills gap crisis. The need for qualified welders has grown to over 115,000 welders across the country. Students can begin to gain hands-on experience and gain knowledge about a rewarding career of welding and fabrication. Although there are no prerequisites for Welding Technology, students may want to take Computers in Production & Design and/or Introduction to Manufacturing. Welding Technology I, will meet for two periods a day.

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

American Welding Society certifications and dual credits with Ivy Tech Community College earned in Welding Technology I, will give an individual a head start in a welding career or continuing education.

## **WELDING TECHNOLOGY II**

**(5891) (5892)**

**Grades 12 (2 periods per day- Full Year)**

**Dual Credit – Ivy Tech**

**Prerequisite: Welding Technology I**

81% of manufactures in the United States cannot find highly skilled welders. Building on the skills you developed in Welding Technology I, Welding Technology II continues to focus on AWS certifications and fabrication in all welding processes. With the dual credits offered through Ivy Tech Community College and the certifications you can achieve, the sky's the limit in a career in welding. Welding Technology II meets for two hours a day.

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

## **ROBOTICS**

### **PRINCIPLES OF ENGINEERING (non-PLTW)**

**(5551) (5552)**

**Grades 10 (Full Year)**

**Dual Credit - None**

**Prerequisites: None**

Robotic essentials which include the understanding of motors, functional systems, and robot control systems is the course focus. Students will be divided into teams to design and build and test robots to be used in competitive tournaments. All students in the class can be part of the Warren Robotics Team 829 and will be able to participate in all team activities. This class will complement any PLTW class: IED, POE, CIM, CEA and DE.

### **INDUSTRIAL AUTOMATION AND ROBOTICS I**

**(5121) (5122) 1HR (5131) (5132) 2HR**

**Grades 11-12 (Full Year) 1 or 2 hours**

**Dual Credit - None**

**Prerequisites: None**

Industrial Automation and Robotics I is a course that focuses on the process of applying engineering, technological, scientific and mathematical principles in the design, production, and operation of robotic, structures, and systems in an industrial setting. Students will gain skills to design and build basic robots that use sensors and actuators to solve specific problems and complete specific tasks. This will include introductory programming of machines in autonomous mode. Students will also learn to program two different industrial robotic arms to simulate manufacturing settings. This course will provide fundamental knowledge and skills in basic lasers, pneumatics, hydraulics, mechanics, basic electronics, and programmable logic controllers, along with an understanding of career pathways in this sector. This is a hands-on course designed for students interested in robotics, industrial technicians, or industrial maintenance careers.

## English Department Scheduling Guidelines 2018-2019

Student Currently in:	Earning a Grade of:	Should enroll in:
<b>9 Core</b>	<ul style="list-style-type: none"> <li>A-high B</li> <li>C or below</li> </ul>	<ul style="list-style-type: none"> <li>Move to Adv. Core</li> <li>Remains in Core</li> </ul>
<b>9 Adv. Core</b>	<ul style="list-style-type: none"> <li>A- high B</li> <li>B-C</li> <li>D or below</li> </ul>	<ul style="list-style-type: none"> <li>May move to Excel w/ recommendation</li> <li>Stay in Adv. Core</li> <li>Move to Core</li> </ul>
<b>9 Excel</b>	<ul style="list-style-type: none"> <li>A-B</li> <li>C</li> <li>D or below</li> </ul>	<ul style="list-style-type: none"> <li>Remain in Excel</li> <li>Move to Adv Core if recommended by instructor</li> <li>Move to Adv Core or Core</li> </ul>
<b>10 Core</b>	<ul style="list-style-type: none"> <li>A-high B/PSAT</li> <li>C or below</li> </ul>	<ul style="list-style-type: none"> <li>Move to Adv. Core (Dual Credit)</li> <li>Remains in Core</li> </ul>
<b>10 Adv. Core</b>	<ul style="list-style-type: none"> <li>A- high B/PSAT</li> <li>B-C</li> <li>D or below</li> </ul>	<ul style="list-style-type: none"> <li>Adv. Core (Dual Credit) or AP w/ recommendation/PSAT scores</li> <li>Stay in Adv. Core (Dual Credit)</li> <li>Move to Core</li> </ul>
<b>10 Excel</b>	<ul style="list-style-type: none"> <li>A-B</li> <li>C</li> <li>D or below</li> </ul>	<ul style="list-style-type: none"> <li>AP Language or Dual Credit</li> <li>Move to Adv Core (Dual Credit) if recommended by instructor/PSAT scores</li> <li>Move to Adv Core (Dual Credit) or Core</li> </ul>
<b>11 Core</b>	<ul style="list-style-type: none"> <li>A-high B/PSAT</li> <li>C or below</li> </ul>	<ul style="list-style-type: none"> <li>Move do Adv. Core (Dual Credit)</li> <li>Remains in Core</li> </ul>
<b>11 Adv. Core</b> (Includes Interdisc, literature electives, and Dual Credit Comp I)	<ul style="list-style-type: none"> <li>A- high B</li> <li>B-C</li> <li>D or below</li> </ul>	<ul style="list-style-type: none"> <li>May move to AP w/ recommendation/PSAT</li> <li>Stay in Adv. Core (Dual Credit)</li> <li>Move to Core</li> </ul> <p><b>** If student is enrolled in Adv. Core, but does not qualify for dual credit, he/she may take dual credit English 111 as a senior.</b></p>
<b>AP English 11</b>	<ul style="list-style-type: none"> <li>A-B</li> <li>C</li> <li>D or below</li> </ul>	<ul style="list-style-type: none"> <li>Remain in AP</li> <li>Move to Adv Core (Dual Credit) if recommended by instructor</li> <li>Move to Adv Core or Core</li> </ul>

**\*\*Note:**

Students taking Adv. Comp I/ENG 111 as juniors that meet the qualifying criteria for dual credit, will be eligible to take Adv. Comp II/ENG 112 as seniors.

Students taking Adv. Comp I/ENG 111 as juniors that do not meet the qualifying criteria to earn the dual credit, will be permitted to take Adv. Comp II/ENG 111 as seniors.

# ENGLISH DEPARTMENT

The mission of the WCHS English Department is to develop students' full potential in English language skills through rigorous instruction and practice, preparing them for the next steps in their lives.

## **ENGLISH 9/1-2 (3111) (3112)** **Integrated English (both semesters)**

This course is an integrated study of vocabulary, language, literature, writing, and oral communication. English 9 develops your use of language as a tool for learning and thinking and as a source of pleasure. This study prepares you for the ISTEP+, ACT, and SAT.

Literature instruction focuses on opportunities to read and comprehend a broad variety of literature by applying appropriate reading strategies to enhance reading skills and literary appreciation which includes the ability to identify and analyze the elements of story structure, utilize material related to the world of work and technical documents, identify literature by genre, identify the author's purpose and perspective, recognize bias and propaganda, and identify and analyze elements of literature. Literature instruction also focuses on opportunities to develop vocabulary through decoding Greek and Latin roots, learning literary terms and using glossaries, finding contextual clues, and doing independent reading.

Composition requires writing for various audiences and purposes while strengthening skills in paragraph and essay writing. Composition also provides opportunities for creating expository essays of persuasion and literary analysis, in addition to completing technical writing assignments in various forms. Using technology, students receive instruction and practice in the writing, revising, editing, and producing of a final, corrected product. This process includes peer revision, especially at the revising and editing stages.

## **ENGLISH 9/1-2 ADVANCED CORE (3121) (3122)** **Grade 9 (both semesters)**

This course is for students who have earned A or B averages in middle school English courses. It develops your use of language as a tool for learning and thinking and as a source of pleasure. This study prepares you for the ISTEP+, PSAT, ACT, and SAT.

Composition instruction provides an opportunity to learn the writing process that includes prewriting, drafting, peer sharing, revising, editing, and producing a final product. You will have frequent opportunities to write for different audiences and purposes-including research. You receive specific training in providing constructive, substantive feedback to writing partners.

Selected readings provide models of effective writing techniques and opportunities to evaluate and discuss the writings of others. In addition to providing instruction in writing clear, coherent, and organized text, this course will teach strategies for collecting and transforming data for use in writing and using criteria to evaluate and revise writing. Instruction in grammar, usage, and mechanics will be integrated with writing so that you develop a functional understanding of language and common vocabulary for discussing writing. Word processors will support writing instruction.

Literature instruction provides the study of techniques and conventions of various literary genres, such as poetry, drama, novel, short story, biography, journal, and essay. In discussion and presentations, as well as in writing assignments, you will explore the limitations and special abilities of the different genres, ultimately building an appreciation of how genres enable and constrain the articulation of ideas.

## **ENGLISH9/1X-2X (3131) (3132) Weighted** **Grade 9 Integrated English (both semesters)** **\*Summer Reading required for this course**

English 9X is the first course in Warren Central High School's X-AP program in English. This course will help you prepare for the ISTEP+, PSAT, ACT, SAT, and AP tests. Students who are invited to enroll in this class should have an excellent work ethic that has been demonstrated by grades of A's or B's in their middle school English classes.

Through the integrated study of vocabulary, language, literature, writing, and oral communication, English 9X further develops your use of language as a tool for learning and thinking and as a source of pleasure.

Literature includes the study of a variety of genres and requires students to develop strategies for making critical evaluations of literature, such as identifying literary conventions and determining authors' purposes and perspectives.

Composition requires you to write for various audiences and purposes while strengthening skills in paragraph and essay writing including persuasion, literary analysis, and technical writing. You will receive instruction and practice in the writing process including prewriting, writing revising, editing, and producing a final, corrected product. This process includes peer revision, especially at the revising and editing stages.

## **ENGLISH 10/3-4 (3211) (3212)**

### **Grade 10 Integrated English (both semesters)**

This course is an integrated study of vocabulary, language, literature, writing, and oral communication. English 10 further develops your use of language as a tool for learning and thinking and as a source of pleasure. This study prepares you for the ISTEP+, PSAT, ACT and SAT.

Composition requires you to write for various audiences and purposes while strengthening skills in paragraph and essay writing. Composition also provides opportunities for creating expository essays of persuasion and literary analysis, in addition to completing technical writing assignments in various forms. Using technology, you will receive instruction and practice in the writing process including prewriting, writing, revising, editing, and producing of a final, corrected product. This process includes peer revision, especially at the revising and editing stages.

Literature instruction focuses on opportunities to read and comprehend a broad variety of literature by applying appropriate reading strategies to enhance reading skills and literary appreciation which includes the ability to identify and analyze the elements of story structure - particularly, themes; to practice distinguishing between the different types of content and purposes language can hold; and to practice using language for different sophisticated purposes: identifying and forming conclusions, recognizing and using persuasive devices, judging authors' purposes, perspective, and expertise; and reading and interpreting public documents, instructions, and symbols. Literature instruction also helps you to develop vocabulary through Greek and Latin roots, learning literary terms and using glossaries, finding contextual clues, and doing independent reading.

## **ENGLISH 10/3-4 ADVANCED CORE (3221) (3222)**

### **Grade 10 (both semesters)**

You must have earned credit in English 9 Advanced Core, or you must have earned A or B averages in both semesters of English 9 to enroll in this course. Expository Writing continues to develop all skills as outlined in the 9<sup>th</sup> grade English courses. This study prepares you for the ISTEP+, PSAT, ACT, and SAT.

Writing instruction provides you with ample opportunities to combine literary creativity and research with the discipline of written discourse. The concept of the manipulation of language to convey ideas, feelings, moods, and visual images is the basis of the course. You will become familiar with standard literary elements through the reading and study of published prose and poetry and are taught to use those elements in the writing. Additionally, you will learn strategies for evaluation and responding to your own writing and the writing of others in a peer-sharing component. In this peer-sharing component, you will receive specific training in providing constructive substantive feedback, while role-playing as likely readers of each creative work. Representative models of literary excellence will also be studied.

Literature instruction provides you with a survey of the literature produced in the United States from pre-Revolutionary times to the end of the 19<sup>th</sup> Century. This course includes a study of representative works of literature that reflect American culture. You will study a variety of literary genres, such as drama, poetry, and prose. Quality works of various ethnic and cultural minorities are also included. Written and oral exercises will require you to analyze and explain how your readings of literature, history, and culture are interconnected and distinctly American.

## **ENGLISH 10/3X-4X (3231) (3232) Weighted**

### **Grade 10 Integrated English (both semesters)**

#### **\*Summer Reading required for this course**

English 10X is the second course in Warren Central High School's X-AP program in English. This course will help you prepare for the ACT, SAT, and AP Tests. Students who enroll in this class should have an excellent work ethic that has been demonstrated by grades of A's or B's in English 9/1X-2X. Through the integrated study of vocabulary, language, literature, writing, and oral communication, English 10X further continues to develop all skills as outlined in English 9X. The literature in this course provides a variety of reading materials representing different genres, cultures, times, authors, themes, and forms. Furthermore, English 10X incorporates the development of research and library media skills in conjunction with writing and speaking.

Literature focuses on opportunities to study literature so as to practice distinguishing among the different forms and purposes language can hold. It also affords opportunities to recognize and use persuasive devices; to judge authors' purposes, perspectives, and expertise; and to read and interpret public documents. Finally, it facilitates vocabulary development by means of decoding, learning literary terms, using glossaries, finding contextual clues, and doing independent reading.

Composition requires you to write for various audiences and purposes. You will identify and employ various elements of good writing in well-organized descriptive, expository, and argumentative writings. Formal study of grammar, usage, spelling and language mechanics is integrated into the study of writing. You will receive instruction and practice in the writing process including prewriting, writing, revising, editing, and producing of a final, corrected product.

## **ENGLISH 11/5-6 (3311) (3312)**

### **Grade 11 Integrated English (both semesters)**

This course is an integrated study of vocabulary, language, literature, writing, and oral communication. English 11 further develops your use of language as a tool for learning and thinking and as a source of pleasure. This study prepares you for the ISTEP+, PSAT, ACT, and SAT. It continues to develop all skills as outlined in English 9 and 10.

Composition requires you to write for various audiences and purposes. Composition also provides opportunities for creating descriptive, expository, and narrative essays of persuasion and literary analysis, in addition to completing technical writing assignments in various forms. Using technology, you will receive instruction and practice in the writing process including prewriting, writing, revising, editing, and producing of a final, corrected product. This process includes peer revision, especially at the revising and editing stages.

Literature instruction focuses on opportunities to respond critically, reflectively, and imaginatively to American literature; to recognize its relevance in today's world; to practice distinguishing between the different types of content and purposes language can hold; and to practice using language for different sophisticated purposes: identifying and forming conclusions, recognizing and using persuasive devices, judging authors' purposes, perspective, and expertise; and reading and interpreting public documents, instructions, and symbols. Literature instruction also helps you to develop vocabulary through decoding, using Greek and Latin roots, learning literary terms and using glossaries, finding contextual clues, and doing independent reading.

## **AP ENGLISH 11/1-2 LANGUAGE AND COMPOSITION (3331) (3332) Weighted**

### **Grade 11 Integrated English (both semesters)**

**Prerequisite: Qualification on ISTEP+ and teacher recommendation**

**\*Summer Reading required for this course**

Advanced Placement English: Language and Composition is the third course in Warren Central High School's X-AP program in English. This course will help you prepare for the ACT, SAT, and AP tests. The course follows College Board Entrance Examination guidelines for advanced placement in college English.

In Advanced Placement: Language and Composition, you will read and analyze texts (primarily narration, exposition, and argumentation) from different periods and disciplines to determine the authors' rhetorical purposes. You will then write in a variety of modes for a variety of purposes papers of varying length and document sources in Modern Language Association (MLA) format. You will thoroughly revise your papers on your own, with computers, with peers, and with your teacher.

Writing assignments will be frequent, including in-class essays and at least one research paper. You will also be expected to participate fully in class discussions and make presentations. You should make use of technological resources both in researching and in producing papers. **Successful completion of an analytic, synthesized research paper in (MLA) format is required for course credit.**

## **ADVANCED COMPOSITION I (3321) (ENG 111)**

### **Grade 11 (fall semester)**

**Dual Credit Ivy Tech**

**Prerequisite: ACT R18/W17/M18, PSAT R25/W26, SAT R460/W460, ACCUPLACER R76/W80**

You must have earned credit in Advanced Core English, OR you must have earned an A or B average in previous core English courses to enroll in Advanced Composition I. You should also be on-track for a four-year college. Advanced Composition continues to develop all skills taught in Advanced Core English. Course work prepares you for the ACT and SAT while building on the skills learned in 9<sup>th</sup> and 10<sup>th</sup> grade.

Advanced Composition I further develops and refines writing skills introduced in other composition courses. This course will provide you with frequent opportunities to write for different audiences and purposes-including research, using a process that includes: prewriting, drafting, peer sharing, revising and editing. Techniques of persuasive writing and formal argument are studied, and increased emphasis is placed on language and style. This course will encourage you to take risks as a writer, choose some of your own topics for writing, and publish your writing in the most appropriate formats available. You will do presentations critiquing your own writing. You will also read and evaluate literary samples of good writing to enhance your own writing. Chromebooks and PCs will be used to support writing instruction in this course.

## **ENGLISH 12/7-8 (3411) (3412)**

### **Grade 12 Integrated English**

This course is an integrated study of vocabulary, language, literature, writing, and oral communication. English 12 further develops your use of language as a tool for learning and thinking and as a source of pleasure. This study prepares you for the ACT and SAT. It continues to develop all skills as outlined in English 9, 10, and 11.

Literature instruction focuses on the skills necessary to develop criteria for judging and analyzing literary works, speeches, essays, and poetry. It will lead you to select appropriate reading skills and strategies to distinguish elements in literature. It offers the opportunity to respond critically, reflectively, and imaginatively to classic and contemporary British literature. Literature instruction also helps you to develop vocabulary through decoding Greek and Latin roots, learning literary terms and using glossaries, finding contextual clues and doing independent reading.

Composition requires you to produce a variety of forms, including persuasive writing, synthesis and analysis of information from a variety of sources, completing complex forms, describing procedures, giving directions, and using graphic forms to support a thesis. Using technology, you will receive instruction and practice in the writing process including prewriting, writing, revising, editing, and producing of a final, corrected product. This process includes peer revision, especially at the revising and editing stages.

## **ADVANCED COLLEGE CREDIT ENGLISH/COMP 2 (ENG 111 – 3421) (ENG 112 – 3591) WEIGHTED**

### **Grade 11, 12 (FALL SEMESTER) Core 40**

#### **Dual Credit Ivy Tech**

#### **Prerequisite: (ACT R18/W17/M18, PSAT R25/W26, SAT R460/W460, ACCUP R76/W80/)**

In this class you will work closely with your instructors and classmates to strengthen your writing skills. This course has been designed to meet the English Department requirements of Warren Central and the course requirements for Ivy Tech's English Composition I (ENGL 101).

The course will move quickly and is designed for motivated and self-disciplined students who are preparing for college. You must be committed to staying on schedule and turning in high-quality work for every assignment.

The curriculum is focused on writing. You will write papers in all of these genres: expository, process analysis, cause and effect, argumentation (research paper), classification and division, and comparison contrast.

## **AP ENGLISH 12/1-2: LITERATURE & COMPOSITION (3431) (3432) Weighted**

### **Grade 12 Integrated English**

#### **Prerequisite: Qualification on ECA/ISTEP+ and teacher recommendation**

Advanced Placement English: Literature and Composition is the final course in Warren Central High School's X-AP program in English. This course will help you prepare for PSAT, ACT, SAT, and AP tests. The course follows College Board Entrance Examination guidelines for advanced placement in college English. To enroll, you should be receiving an "A" in advanced core English classes. If you are a student new to Warren Central High School or a student who passed both semesters of junior English courses with at least a B average and wish to enroll in this course, you must submit to the Chairperson of the English Department a portfolio of work which you completed during 11<sup>th</sup> grade. This portfolio must include a writing sample based on a piece of literature and written recommendations from your junior English teachers.

In Advanced Placement: Literature and Composition, you will carefully and critically analyze individual imaginative works of literary merit, rich in language and complexity. Your writing will reinforce your reading and will be heavily weighted toward critical analysis. You will be expected to read challenging texts at home as well as in the classroom.

Composition may include creative writing to sharpen your understanding of writers' accomplishments. You will thoroughly revise your papers on your own, with computers, with peers, and with your teacher. Writing assignments will be frequent, including in-class essays and periodic research papers. You will also be expected to participate fully in class discussions and make presentations. You should make use of technological resources both in researching and in producing your papers. **Successful completion of an analytic, synthesized research paper in (MLA) format is required for course credit.**

## **GRADES 11 & 12 LITERATURE CLASSES**

Each of these courses is based on Common Core standards and takes a rigorous approach to reading, writing, speaking, and listening. To take these courses, you should be on-track for a four-year college.

Students do a variety of college-preparatory writing in these courses, both formally and informally. Students write process and timed writing papers in response to reading assignments and class discussion. They research topics relevant to the course, presenting their findings in a variety of forms. Additionally, students compose in-class, timed essays in preparation for tests like the ACT and SAT.

## **THEMES IN LITERATURE (3502)**

**Grade 11 & 12 (spring semester)**

**Suggested Prerequisite:**

You must have earned credit in Advanced Core, Advanced Composition, OR you must have earned an A or B average in previous core English courses to enroll in Themes in Literature.

This course is a study of the American Dream. The class will examine the fundamentals of the American dream, its evolution, the current state of the American Dream, and if attainment of the dream is still possible. This course covers a variety of twentieth-century literature, with genres including nonfiction, fiction, and drama, to give students the opportunity to analyze what it means to be American and to have a dream.

## **INTRODUCTION TO COLLEGE LITERATURE (3592) Weighted**

**Grade 12**

**Dual Credit Vincennes (spring semester)**

**Prerequisite: Qualification on ISTEP+ AND one of the following minimum standardized test scores: PSAT (Reading) (on or after 2015) 23, ACT (Reading) 21, SAT (CR) (2015 or before) 420, SAT (Reading) (2016 or after) 23, ACCU (IDOE or school/Reading) 75**

In addition to the minimum qualifying test scores, you must also have earned an A or B average in your previous advanced core English courses to enroll in Introduction to College Literature. You should be on track for a four-year college. Coursework prepares you for the rigors of a college curriculum.

Introduction to College Literature is designed to introduce the student to the three main genres of literature: poetry, fiction, and drama. By a careful reading of representative texts from each genre, students should gain a general appreciation of the value of literature and begin to understand the enjoyment that literature of all types provides. In short, this course requires that students rise to the challenge of college-level work.

You will then write in a variety of modes for a variety of purposes papers of varying lengths and document sources in Modern Language Association (MLA) format. You will thoroughly revise your papers alone, with computers, with peers, and with your teacher. Successful completion of an analytic synthesized research paper in Modern Language Association (MLA) format is required for course credit.

**This course offers dual credit: you may earn both high school credit and three hours of college credit if you pass the course with at least a C. The credit is awarded by Vincennes University but is transferable to any college in Indiana and most out-of-state colleges. The cost to take the class for college credit is \$75 (that is, \$25 per credit).**

## **CONTEMPORARY LITERATURE/ADVANCED COMPOSITION 1/US HISTORY (3551) (3552)**

**Grade 11 (two semesters)**

**Suggested Prerequisite: Qualification on ISTEP+**

Contemporary Literature is a study of how post-1950s literature from around the world addresses contemporary issues. Students analyze how the interpretations and themes of contemporary literature read in this course relate to the time period and to historical issues. Coursework prepares you for the ACT and SAT while building on the skills learned in 9<sup>th</sup> and 10<sup>th</sup> grade.

Advanced Composition 1 further develops and refines writing skills introduced in other composition courses. This course will provide you with frequent opportunities to write for different audiences and purposes-including research. Techniques of persuasive writing and formal argument are studied, and increased emphasis is placed on language and style. This course will encourage you to take risks as a writer, choose some of your own topics for writing, and publish your writing in the most appropriate formats available. You will also read and evaluate literary samples of good writing to enhance your own writing. Multiple technologies will be used to support writing instruction in this course. Both of these courses are paired with a special US History course that addresses all standards for US History with a special focus on the Cold War. Fulfills the US History requirement of the General, Core 40, Core 40 with Academic Honors, and Core 40 with Technical Honors diplomas

## **ETHNIC LITERATURE (3562)**

**Grade 11 & 12 (spring semester)**

**Suggested Prerequisite: Qualification on ISTEP+**

This course will study texts (fiction, memoirs, poetry, short stories) by African, Latino, Native American, Asian and Middle Eastern immigrants and their descendants in North America. Each text will encompass the theme of a "journey". The author's journey is unique and may fall under the following mini-themes: journey through loss, journey through love, journey through identity, and journey through survival. The authors' countries of origin or ethnic background include Afghanistan, Mexico, China, United States, Nigeria, Puerto Rico, and India. The various texts that are chosen will not only be connected by an overarching theme, they will also vary in structure and complexity.

**TWENTIETH CENTURY LITERATURE (3572)**  
**Grade 11 & 12 (spring semester)**  
**Suggested Prerequisite: Qualification on ISTEP+**

You must have earned credit in English 9 Advanced Core, English 10 Advanced Core, OR you must have earned an A or B average in previous core English courses to enroll in Twentieth Century Literature.

This course is a study of twentieth-century literature focusing on the topic of identity. What is identity? How do we define our identity? How do others define us, and how does that define our world? From ethnicity to culture, religion, gender, and philosophical beliefs, literature in this course— including fiction, nonfiction, drama, and poetry— will examine the universal experience of being “different.”

**ELECTIVES – CREDIT ONLY COURSES**

These courses do not count toward your eight (8) English credits required for graduation. However, they do count toward the thirteen (13) elective credits you need to meet graduation requirements.

**ENGLISH LAB (3011) (3012)**  
**GRADE 10- 11**  
**PREREQUISITE: NONE**

Language Arts Lab is a one semester course that provides students with individualized or small group instruction designed to support success on taking the English ISTEP+. It is a language arts course work aligned with Indiana’s Academic Standards for English Language Arts in Grade 10 and the Indiana State Standards for English Language Arts.

**ENGLISH LAB (3001) (3002)**  
**GRADE 12**  
**PREREQUISITE: NONE**

Language Arts Lab is a one semester course that provides students with individualized or small group instruction designed to support success on the English End of course Assessment (ECA). It is a language arts course work aligned with Indiana’s Academic Standards for English Language Arts in Grades 10-12 and the Indiana State Standards for English Language Arts.

**JOURNALISM 1-2 (3801) (3802)**  
**Grades 9-10-11-12**

This year-long course is open to freshmen who have earned A’s or B’s in 8<sup>th</sup> grade English and to sophomores, juniors, and seniors who have earned A’s or B’s in the year of English preceding their enrollment in Journalism 1-2. Students should already have demonstrated strength in verbal and composition skills. Furthermore, seniors may enroll only with special recommendation.

The first semester is designed to introduce media careers and prepare you for staff positions on the OWL and WIGWAM. You will focus on the print media as you gain a historical perspective on journalism and press rights. You will also work on developing skills necessary for interviewing; observing journalistic style; writing news, feature, opinion, and sport articles; and writing headlines.

The second semester is open only to those students who have successfully completed first semester or who have permission from the publication adviser teaching this course. The second semester is designed to broaden your knowledge of technology and computer design. You will focus on photojournalism, advertising, in-depth reporting, public relations, and yearbook and news magazine layout and design projects.

**SPEECH (3841) (3842)**  
**Grades 9-10-11-12 (one semester)**

**To be enrolled in this course as a 9<sup>th</sup> grader, the student must be in ADV Core or English 9/1X-2X.**

Speech provides study of and practice in the basic principles and techniques of oral communication. This course includes instruction in adapting speech to different audiences and purposes. You will have opportunities to present different types of oral presentations, including (1) viewpoint, (2) instructional, (3) demonstration, (4) informative, (5) persuasive, and (6) impromptu. This course emphasizes research using technology and careful organization and preparation. You will also practice and develop critical listening skills.



**ACP ADVANCED SPEECH (3851) (3852) Weighted****Grades 11 & 12 (one semester)****Dual Credit with Indiana University****Prerequisite: Speech or Teacher Recommendation, must apply to Indiana University and have at least a 2.7 GPA**

In this college-level Public Speaking course, students will develop skills in the research, construction, organization and delivery of public speeches from a rhetorical perspective. Through thoughtful study, analysis and application of rhetorical theories, students will also discover how to solve real-world problems through communication by delivering a variety of persuasive speeches to a wide span of audiences and contexts. Students who take this course must apply through the IU Advanced College Project, be accepted and register through the Indiana University registration process. Tuition and fees may apply.

**STUDENT PUBLICATION/OWL 1-2 (3821) (3822)****Grades 10-11-12**

This two-semester course is open to students who have successfully completed Journalism 1 and 2 and who have received the approval from the newspaper adviser. In this course you will participate in producing the Owl, the school newspaper using Adobe Photoshop software, and InDesign. Your assignments will involve interviewing, reporting, planning, and designing this publication. You will do regular writing assignments. You will be required to attend production nights after regular school hours and to take photo assignments, which may involve staying after school or even going to other schools. You will also study and practice advertising, photojournalism, and merchandising techniques. If you are an advanced student, you will assume editorial responsibilities.

**STUDENT PUB/PHOTOJOURNALISM (3861) (3862)****Grades 10-11-12**

This two-semester course is open to students who have successfully completed Journalism 1 and 2 with an emphasis on photography or one year of photography at the high school level – and who have received the approval of the staff adviser. In this course, as a staff photographer, you will learn to process digital photos using Adobe Photoshop software and sharpen your skills with assignments to shoot photographs for the newspaper and/or yearbook. You will be required to attend production nights after regular school hours and to take photo assignments, which may involve staying after school or even going to other schools. This class can count as a fine arts credit.

**STUDENT PUBLICATION/WIGWAM (3831) (3832)****Grades 10-11-12**

This two-semester course is open to students who have successfully completed Journalism 1 and 2 and who have received the approval from the yearbook adviser. In this course you will participate in producing the Wigwam, the school yearbook, using Adobe Photoshop software, InDesign and Herff Jones. You will do regular writing assignments which will require research and interviews at events which often times take place after school hours. You will plan, design, and sell these publications. You will be required to attend production nights after regular school hours and to take photo assignments, which may involve staying after school or even going to other schools. You will do frequent writing assignments.

You will also study and practice advertising, photojournalism, and merchandising techniques. If you are an advanced student, you will assume editorial responsibilities.

**ENGLISH AS A NEW LANGUAGE (3921/3922, 3931/3932, 3941/3942)****Grades 9-10-11-12**

English as a New Language provides English instruction to students whose primary language is not English. The instruction improves their proficiency in listening, speaking, reading, and writing in English. Emphasis is placed on helping students to function within the regular school setting and with an English-speaking society.

# FAMILY & CONSUMER SCIENCES DEPARTMENT

The Family and Consumer Sciences Department mission is to improve the lives of students through the application of scientific, occupational, and behavioral principles to the process of daily living.

## Singleton Electives

Preparing for College & Careers  
**Required Grade 9**

Interpersonal Relationships  
Grades 10-12

Human Development  
Grades 10-12

Adult Roles & Responsibilities  
I, II  
Grades 11 and 12

Nutrition & Wellness  
Grades 9-12

Nutrition & Wellness: Fitness  
Grades 10-12

Introduction to Fashion & Textiles I  
Grades 9-12

## Sequential Electives

Nutrition & Wellness  
Grades 9-12

Adv. Nutrition & Wellness Grades  
9-12

Intro to Culinary Arts Grades  
Grade 10

Culinary Arts & Hospitality I and II  
Grades 11 -12

Child Development  
Grades 10-12

Adv. Child Development Grades  
10-12

Early Childhood Education I and II  
Grades 11-12

Introduction to Fashion & Textiles I  
Grades 9-12

Introduction to Fashion & Textiles II  
Grades 9-12

Fashion and Textiles Careers I  
Grades 10-12

## Pathway Programs

Cosmetology I and II  
Grades 11-12

Culinary Arts & Hospitality I and II  
Grades 11 -12

Early Childhood Education I and II  
Grades 11-12

Education Professions I and II  
Grades 11-12

### PREPARING FOR COLLEGE AND CAREERS (1001) (1002) Grade 9 - Required Freshman Course (one semester)

Destination graduation! First stop is the Preparing for College and Careers class where you will discover your potential, as you take interest inventories, create goals, make decisions, gain skills for success and plan your future. Oh, the places you can go after WCHS / WCC!

### CHILD DEVELOPMENT (1051) (1052) Grades 10-11-12 (one semester course)

Hugs and kisses or tantrums and screaming – How do you view children? How do you view yourself? By taking Child Development, you will be able to answer these questions and much more.

During this one-semester course, you will study pregnancy, prenatal care, and infant care, all areas of development (physical, cognitive, emotional and social), and parenting. This course is especially appropriate if you have an interest in human services and education-related careers. This is a required course for enrollment in Early Childhood Education I and II.

## **ADVANCED CHILD DEVELOPMENT (1062) (spring semester only)**

**Grades 10-11-12**

**Prerequisite: Child Development**

Have you ever heard the phrase, "Children are our future?" By taking Advanced Child Development and Parenting, you will learn about appropriate development and care-giving techniques that will enable our future to be bright and positive.

During this one-semester class, you will learn about positive parenting techniques, appropriate guidance, children with special needs, the growth and development of a child. You will also research appropriate child developmental theories and explore careers related to children. This is a required course for enrollment in Education and Early Childhood 1-2.

## **HUMAN DEVELOPMENT (1022)**

**Grades 10-11-12 (spring semester only)**

**Prerequisite: none**

Do you ever feel like you could be more than you are right now? Do you understand how our families influence us throughout our lives? Do you have trouble with relationships? Then Human Development is the class for you!

During this one-semester course, you will learn about development and wellness of individuals and families throughout the life cycle. Topics include: personality, communication, relationships, dating, marriage, parenting, family wellness, and the exploration of family services and careers.

## **INTERPERSONAL RELATIONSHIPS (1111)**

**Grades 10-11-12 (fall semester only)**

**Prerequisite: none**

Interpersonal Relationships addresses the knowledge, skills, attitudes, and behaviors all students need to participate in positive, caring, and respectful relationships in the family and with individuals at school, in the community, and in the workplace. Topics include components of healthy relationships, roles and responsibilities in relationships, functions and expectations of various relationships, ethics in relationships, factors that impact relationships, establishing and maintaining relationships, building self-esteem, and self-image through healthy relationships, communications styles, techniques for effective communication, and leadership and teamwork.

## **ADULT ROLES & RESPONSIBILITIES 1 (1041)**

**Grades 11-12 (one semester)**

**Prerequisite: none**

Who? What? Where? When? How? These are the questions you need to ask when looking for healthy relationships. Understand your personality and leadership style. Gain communication skills and a positive work ethic. Begin your journey through a successful life with this class.

## **ADULT ROLES & RESPONSIBILITIES 2 (1042)**

**Grades 11-12 (one semester)**

**Prerequisite: none**

Get ready for YOUR independence day! Learn tips for making effective consumer decisions like car shopping, healthy lifestyle choices, housing options, the ins and outs of financial institutions, and much more. Don't leave high school without taking this class.

## **NUTRITION & WELLNESS OFFERINGS**

### **NUTRITION AND WELLNESS (0901) (0902)**

**Grades 9-10-11-12 (one semester)**

**Prerequisite: none**

What is the difference between grilling and broiling? Why do I need more vegetables **or** fruits in my diet? What is powdered sugar? Discover the answers to these questions and more in this beginning Nutrition and Wellness class. Practice proper kitchen safety and sanitation; create nutrient based recipes that require knife skills and proper measuring. Follow recipe directions to explore different cooking methods and functions of ingredients. This class is a prerequisite for all other nutrition classes.

## **ADVANCED NUTRITION AND WELLNESS (0911) (0912)**

**Grades 9-10-11-12 (one semester)**

**Prerequisite: Successful completion of Nutrition and Wellness 1**

Want to practice your new cooking skills? Like planning meals for family and friends? Nutrition and Wellness 2 is the class for you! Create menus for special diets, discover nutrient needs throughout the lifecycle, work with a food budget, and practice customer service skills used in the culinary industry.

## **NUTRITION AND WELLNESS: FITNESS (1161) (1162)**

**Grades 10-11-12 (one semester)**

**Prerequisite: None**

Nutrition and Wellness: Fitness is a course that focuses on the process of applying basic Nutrition and Wellness principles to the sports and fitness world. This is a hands-on course that provides students with the opportunity to see how nutrition affects their bodies and physical performance. Students will be required to participate in cooking labs and weekly fitness experiences. This class can be a stand-alone elective or in conjunction with other Nutrition and Wellness classes.

## **INTRODUCTION TO CULINARY ARTS AND HOSPITALITY (0991) (0992)**

**Grades 10-11 (full year)**

**Prerequisite: Successful completion of Nutrition and Wellness 1 or via department chair assessment**

Have you thought about a career in the restaurant business or working in the Threshold restaurant here at the Walker Career Center? Do you want to become a chef or own your own restaurant or bakery? If so, then this class will help you determine if a career in culinary arts is right for you. Over the year students get hands on experience working with restaurant equipment through the preparation of recipes. Topics include restaurant safety and sanitation guidelines, knife skills; recipe conversions, cooking methods, customer service and careers in the culinary arts. This class is an advanced course to prepare students for Culinary Arts and Hospitality I.

## **TEXTILE & FASHION OFFERINGS**

**\*In all textiles classes, students are expected to supply all materials & small equipment with which to work. Cost can vary greatly.**

## **INTRODUCTION TO FASHION AND TEXTILES FOUNDATIONS I (0961) (0962)**

**Grades 9-10-11-12 (one semester)**

**Prerequisite: none**

This class is for students interested in enrichment or a career in the fashion, textile, and apparel industry. Knowledge and skills will be addressed relating to design, production and distribution in the fashion, textile, and apparel arena. A project-based approach integrates instruction and lab experiences for topics including how fabric is made, identifying sewing equipment, and constructing basic sewing projects by hand-sewing and machine-sewing. Students can expect to use basic math and measurement skills. Students will create and keep their own projects with fabric they will need to pick out and purchase outside of class.

## **INTRODUCTION TO FASHION AND TEXTILES FOUNDATIONS II (0972)**

**Grades 9-10-11-12 (spring semester only)**

**Prerequisite: Fashion and Textiles Foundations 1**

If you enjoyed Fashion and Textiles I, you will find Fashion and Textiles II more engaging. Students in this course will investigate the history of the fashion industry, discover the impact the fashion industry has on the global economy, and construct some more advanced projects using patterns. **As in Fashion and Textiles Foundations I, this level also requires that students provide their own fabric that is purchased outside of class.**

## **FASHION AND TEXTILES CAREERS I (1101, 1102)**

**Grades 10-11-12 (yearlong- 2 periods per day)**

**Prerequisite: Students must earn a C or better in Introduction to Fashion and Textiles I**

Fashion and Textiles Careers I, provides students the chance to explore the elements of design, investigation of fashion designers, forecasting fashion trends, and the impact of social media on the fashion industry. The project based course offers students an opportunity to create more advanced projects, in which they are able to design. **As Introduction to Fashion and Textiles I, this level also requires that students provide their own fabric that is purchased outside of class.**

## **CAREER & TECHNICAL EDUCATION** **FAMILY & CONSUMER SCIENCE**

### **COSMETOLOGY**

#### **COSMETOLOGY I (5941) (5942)**

**Grade 11 (Year 1 of 2-year Program)**

**Dual Credit: Vincennes University (14 hrs.)**

**4 credits per semester/4 periods per day/Per. 1-4**

**Prerequisite: Invitation to join program per application and interview process**

Did you know that you could be a hairstylist, make-up artist, nail tech, chemical specialist, and much more with only one license? With the successful completion of an application and interview process, excellent school attendance (95%), 2.0 GPA (C or higher), and up to date with credits for graduation, you can be on your way to a promising career in Cosmetology.

After a two year course at Walker Career Center, you will have had the opportunity to complete the 1,500 hours of combined theory and practical skills needed to attain your Indiana State cosmetology license. The cost for the necessary materials is approximately \$500 for the first year and \$250 for the second year.

Dual credit is awarded by Vincennes University for those meeting university requirements and successfully completing the course.

#### **COSMETOLOGY II (5951) (5952)**

**Grade 12 (Year 2 of 2-year Program)**

**Dual Credit: Vincennes University (16 hrs.)**

**4 credits per semester/4 periods per day/Per. 5-8**

**Prerequisite: Cosmetology I**

Cosmetology II provides students with an opportunity to advance skills taught in Cosmetology I. Students will be working with clients more often and learn the skills of salon management by logging hours towards licensure

### **CULINARY ARTS OFFERINGS**

#### **INTRODUCTION TO CULINARY ARTS AND HOSPITALITY (0991) (0992)**

**Grades 10 (full year)**

**Prerequisite: Successful completion of Nutrition and Wellness 1 with a C or better or via department chair assessment**

**Students need to maintain a passing grade of 60% or higher to continue the course second semester.**

Have you thought about a career in the restaurant business or working in the Threshold restaurant here at the Walker Career Center? Do you want to become a chef or own your own restaurant or bakery? If so, then this class will help you determine if a career in culinary arts is right for you. Over the year students get hands on experience working with restaurant equipment through the preparation of recipes. Topics include restaurant safety and sanitation guidelines, knife skills, recipe conversions, cooking methods, customer service and careers in the culinary arts. This class is an advanced course to prepare students for Culinary Arts and Hospitality

#### **CULINARY ARTS AND HOSPITALITY I (0931) (0932)**

**Grades 11-12 3 credits per semester/3 periods per day**

#### **CULINARY ARTS AND HOSPITALITY II: Culinary Arts (0941) (0942)**

**Grade 12 3 credits per semester/3 periods per day**

**Prerequisite: Successful completion of Intro to Culinary Arts I**

**Dual Credit: Ivy Tech (9-12 hrs.)**

Is food your passion? Do you love making new dishes and trying them on your friends and family? Do you want to be a part of the largest industry in the world? If you answered yes to any of these, then Culinary Arts Careers is for you.

In the Culinary Arts Careers Program, you will explore the restaurant industry from the inside out. You will learn about current trends in the industry, classical food preparation methods, restaurant management, culinary math skills, customer service, and hospitality basics through weekly restaurant training and labs. Students will receive hands-on experience in all aspects of operating a successful restaurant right here in our very own career center (Threshold Restaurant). Students who successfully complete each year of this program and pass the admission requirements are eligible for dual credits at Ivy Tech Community College.

## **EDUCATIONAL RELATED OFFERINGS**

### **EARLY CHILDHOOD EDUCATION I-II (1071) (1072)**

**Grades 11-12**

**3 credits per semester/3 periods per day**

**Prerequisites: Child Development and Advanced Child Development**

**Dual Credit: Ivy Tech (9hrs)**

What could be more fun than teaching young children while playing games? Children learn best through play! If you like to interact with young children, then you could be a great preschool teacher, elementary teacher, nurse, physical therapist, occupational therapist, speech language pathologist, or daycare provider! The primary focus of this class is to prepare high school students for entry-level positions in early childhood related fields and to provide the foundation for study in higher education that leads to multiple child-related careers. Students will study various aspects of child development, how to plan and supervise activities for young children, administrative structure, operational procedures of child care centers, as well as health, nutrition, and safety requirements of childcare facilities. Class time is divided between formal class work and project based learning in the high school classroom and assisting in the preschool classrooms at the Warren Early Childhood Center. The Early Childhood Education Program does require three periods each day and a strict dress code. Students in the program must complete and pay for fingerprint background check; resource information is provided. ECE students are bused from Warren Central High School/Walker Career Center on a daily basis and are NOT permitted to drive to and from class. Dual credit enrollment is available with Ivy Tech Community College for those meeting requirements.

### **EDUCATION PROFESSIONS I (1091) (1092)**

**Grade 11-12 2 credits per semester/2 periods per day**

**Prerequisites: Selection process based on: school discipline & attendance, teacher recommendations, and academic performances. Child Development and Parenting is recommended but not required.**

**Dual Credit: Ivy Tech (3hrs)**

Education Professions I provides opportunities to explore careers in elementary and/or middle school education and provides a foundation for study in higher education that leads to education and related careers. This course provides a hands-on, project-based approach that utilizes higher order thinking, communication, leadership, and management processes in order to integrate careers in education. This course of study includes, but is not limited to: planning, writing and implementing developmentally appropriate lesson plans; completing classroom observations; applying health, safety, and ethical principles when working with children and adolescents; investigating licensing requirements related to careers in education; and enhancing employability skills related to knowledge and dispositions of elementary and secondary teachers. Education Professions students are placed in an elementary or middle school setting based on personal preference and teacher approval. *Students should be motivated toward exploring a career in education or related careers.* **Applicants must have a good attendance record and be willing to accept numerous responsibilities associated with working in an elementary or middle level classroom. Participants are encouraged to have their own transportation.** Dual credit enrollment is available with Ivy Tech Community College for those meeting requirements.

### **EDUCATION PROFESSIONS II (1095) (1096)**

**Grade 12 2 credits per semester/2 periods per day**

**Prerequisites: Successful completion of Education Professions I with a C or better.**

**Selection process based on: school discipline & attendance, teacher recommendations, and academic performances.**

**Dual Credit: Ivy Tech (3hrs)**

Education Professions II provides opportunities to expand on the fundamentals taught in Education Professions I. Students will explore educational policy, individual education plans, and other laws with a focus on education. In addition, students will perform classroom observations and work with students of all backgrounds. Students will also, examine the role children's literature plays in the educational process for students elementary through middle school. Education Professions II students are placed in an elementary or middle school setting based on personal preference and teacher approval. Students should be motivated toward exploring a career in education or related careers. **Applicants must have a good attendance record and be willing to accept numerous responsibilities associated with working in an elementary or middle level classroom. Participants are encouraged to have their own transportation.** Dual credit enrollment is available with Ivy Tech Community College for those meeting requirements.

## **FINE ARTS DEPARTMENT**

The Fine Arts Department at Warren Central High School cultivates critical, compassionate and creative thinking in a dynamic environment, developing and inspiring students to become artistic leaders in our community. The Fine Arts Department offers extra-curricular activities that include National Art Honor Society, the Photographers Club and Art Exhibits throughout the year.

### **CERAMICS 1-2 (1311) (1312)** **Grades 10-11-12**

Student's benefit from studying ceramics because of the satisfaction derived from working with clay. This satisfaction comes from taking a raw material and building from it something that can be aesthetically pleasing as well as utilitarian. Ceramics offers a challenge by developing both creativity and problem solving. Ceramics 1-2 includes the following: (a) an introduction to the history of ceramics, past to present; (b) design, as applied to ceramics; (c) methods of building pieces – slab, pinch, coil, press mold; (d) design tools for stamping; (e) glazing; (f) beginning potter's wheel pieces; (g) beginning sculpture pieces; and (h) methods of decorating.

### **CERAMICS 3-4 (1311) (1312)** **Grades 11-12**

The prerequisite for Ceramics 3-4 is the successful completion of Ceramics 1-2. Ceramics 3 is a required prerequisite for Ceramics 4. This course continues with advanced work sequenced from Ceramics 1-2. Ceramics 3-4 includes the following: (a) advanced building techniques based on learning in Ceramics 1/1-2; (b) advanced glaze research; (c) advanced potter's wheel pieces; and (d) hand sculpting.

### **DRAWING AND PAINTING 1-2 (1361) (1362)** **Grades 10-11-12**

In this class, students will create drawings which are designed to allow growth and skill development. Students will explore both guided and self-directed themes while using a wide range of subjects, techniques and materials. Through exploration in ink or other brush media, students transition into painting activities. These include watercolor, acrylic, and other water-based media.

### **DRAWING AND PAINTING 3-4 (1361) (1362)** **Grades 11-12**

Prerequisites for this class are the successful completion of Drawing and Painting 1-2. Students should have a strong interest in improving existing skills and be prepared for challenging assignments as they continue to explore media and method in drawing and painting.

### **ADVANCED DRAWING AND PAINTING 5-6 (1401) (1402)** **Grades 11-12 (Dual Credit) (Full Year) Prerequisite: Passed Accuplacer**

Students in Adv. Drawing and Painting 5-6 will be given the opportunity to work on curricular-based assignments, or to create individual plans of study while guided by the instructor. Students will be introduced to painting with oil on canvas, and stretching canvas. There will be a strong emphasis on development of the student's personal expression, while broadening their understanding of historic and current visual culture. This course is designed to aid college-bound students in the preparation of a portfolio as a part of art school or college admissions.

### **JEWELRY 1-2 (1441) (1442)** **Grades 10-11-12**

Beginning jewelry is designed to develop student skill in metal work and other jewelry materials along with jewelry design and craftsmanship through hands-on experience with jewelers' tools and design techniques. Jewelry 1-2 will include the following: (a) design as applied to making jewelry; (b) use and care of hand and power tools; (c) design and construction of jewelry using base metals, wire, acrylics, enamels, and other jewelry materials, etc. (d) techniques including sawing, piercing, cold connections, soldering, forging, stone setting, etc.

### **JEWELRY 3-4 (1441) (1442)** **Grades 11-12**

The prerequisite for the course is successful completion of Jewelry 1-2. This course emphasizes advanced techniques in jewelry construction. Jewelry 3-4 includes (a) continued study in techniques learned in Jewelry 1-2; and (b) catches, hinges, chain-making, chasing, engraving, findings, surface oxidation, soldering, casting, etc. (c) use of semi-precious stones, metals and a variety of jewelry materials.

## **MEDIA ARTS 1-2 (1321) (1322)**

### **Grades 10-11-12**

Are you a creative person? Do you enjoy taking photos? Then Media Arts 1-2 is for you. This course provides an introduction to the tools, procedures, concepts and application of photographic imaging. Students will explore the techniques and applications of acquiring, manipulating and outputting digitized photographic images utilizing Adobe Photoshop. Students will also create images to meet the requirements of a series of assignments designed to develop specific skills, points of view and stimulate the students' creative capacities for personal expression, communication and self-understanding. Students may provide their own digital camera for this course.

## **COMMERCIAL PHOTOGRAPHY (5231) (5232)**

### **Grades 11-12 (Dual Credit) (Full Year) (No Prerequisite)**

Have you successfully completed Media Arts 1/1-2 or Intro to Communications? Do you want to expand your creative abilities and produce a portfolio of your own work? If your answers are all 'YES', then this is the class for you. Commercial and Digital Photography will provide an introduction to advanced techniques, tools, procedures and concepts of photographic imaging, with an emphasis on digitized photography as fine art. Alternative processes will be discussed and demonstrated, and students will apply these techniques to project or series-orientated assignments. Dual Credit is available. Students will be required to assemble a portfolio of finished work reflecting personal and educational goals.

## **3-DIMENSIONAL ART 1-2 (1421) (1422)**

### **Grades 10-11-12**

This course is for students who wish to explore creating Art in three dimensions, or things that take up space. Art elements and principles will be studied while creating 3-D projects. Hand- building procedure is used rather than drawing techniques. The goal of this course is to provide an opportunity to use a variety of materials with competence, care and imagination and to express visually the world around us.

## **3-DIMENSIONAL ART 3-4 (1421) (1422)**

### **Grades 11-12**

The prerequisite for this class is the successful completion of 3-D Art 1-2. 3-D Art 3-4 provides the opportunity for students to express 3-D ideas with more sophistication and expertise.

## **AP STUDIO ART (1561) (1562)**

### **Grades 11-12 (Dual Credit) (Full Year) Prerequisite: Teacher recommendation**

An advanced level course designed for the serious and/or college bound art major. The course requires the completion of 24 completed artworks. The Concentration section of the portfolio will consist of 12 high quality artworks that clearly demonstrate that the student has developed a body of work by investigation of a theme or idea. The Breadth section of the portfolios will consist of 12 artworks that show a variety of mediums, techniques, approaches to drawing and 2-D design. The students should clearly demonstrate their knowledge of the elements and principles of art in these works. 12 digital photos will be submitted for each section. This course will concentrate on individualized instruction and helping students assemble college portfolios. This course is designed to aid college-bound students in the preparation of a portfolio as a part of art school or college admissions.

## **INTRO TO ART 2D/3D (1301) (1302)**

### **Grades 9-12**

Students taking Introduction to Art engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and art production leading to the creation of portfolio quality works. The primary emphasis will include exploration of the elements and principles of art; basic drawing skills; types and usage of various media; art history; examination of local art forms such as architecture and advertising; and development of the student's creative problem-solving skills.

One year of Introduction to Art must be taken before any other Fine Arts course.

### **IMPORTANT:**

**9<sup>th</sup> graders must successfully complete two semesters of Intro to Art before taking any other Fine Arts course. 10<sup>th</sup>, 11<sup>th</sup> and 12<sup>th</sup> graders may sign up for level 1-2 courses without taking Intro to Art. Students taking AP Studio Art and any level 3-4 courses must have a teacher recommendation.**



### Math Department Scheduling Guidelines 2018-2019

<b>STUDENTS currently enrolled in:</b>	<b>Earning a GRADE of:</b>	<b>Should most likely enroll in:</b>
<b>Algebra I/2</b>	<ul style="list-style-type: none"> <li>• A or B</li> <li>• C or D</li> <li>• F</li> </ul>	<ul style="list-style-type: none"> <li>• Adv. Core Geometry</li> <li>• Core Geometry</li> <li>• Algebra I/2 &amp; Math 10</li> </ul>
<b>CCR or MATH 10 (10<sup>th</sup> graders)</b>	Regardless of grade	<ul style="list-style-type: none"> <li>• Core Geometry, however, this could be dependent on what is best for the student</li> </ul>
<b>Core Geometry</b>	<ul style="list-style-type: none"> <li>• Passing*</li> <li>• Failing</li> </ul>	<ul style="list-style-type: none"> <li>• Core Algebra II</li> <li>• Core Geometry</li> </ul>
<b>Adv. Core Geometry</b>	<ul style="list-style-type: none"> <li>• C or Better</li> <li>• D</li> <li>• F</li> </ul>	<ul style="list-style-type: none"> <li>• Adv. Core Algebra II</li> <li>• Core Algebra II</li> <li>• Core Geometry</li> </ul>
<b>X Geometry</b>	<ul style="list-style-type: none"> <li>• C or Better</li> <li>• D</li> <li>• F</li> </ul>	<ul style="list-style-type: none"> <li>• X Algebra II</li> <li>• Adv. Core Algebra II</li> <li>• Geometry</li> </ul>

\*Exceptions to this might be a student who moved in to a Core class, but they earn high marks and test scores/teacher recommendation suggests that they move to the Advanced Core class.

\*\*Please note that these recommendations are based on the WCHS course sequence. Students may be coming to us with a different sequence (Alg, Alg II, Geo). If that is the case, utilize the information above in reverse to schedule students.

<b>ELECTIVES Menu</b>		
<b>Core Algebra II</b>	<ul style="list-style-type: none"> <li>• A or B</li> <li>• C or D</li> <li>• F</li> </ul>	<ul style="list-style-type: none"> <li>• Pre-Calculus/Trig or Finite*</li> <li>• Math 10, CCR, Finite</li> <li>• Core Algebra II, Math 10</li> </ul>
<b>X Algebra II &amp; Adv. Core Algebra II</b>	<ul style="list-style-type: none"> <li>• A or B</li> <li>• C</li> <li>• D</li> <li>• F</li> </ul>	<ul style="list-style-type: none"> <li>• DC Pre-Calculus/Trig, DC Finite, AP Computer Prog.</li> <li>• Pre-Calculus/Trig, Finite</li> <li>• CCR Bridge, Math 10</li> <li>• Core Algebra II, Math 10</li> </ul>
<b>DC PreCalculus/Trig</b>	<ul style="list-style-type: none"> <li>• A or B</li> <li>• B or C</li> <li>• D or F</li> </ul>	<ul style="list-style-type: none"> <li>• AP Calculus</li> <li>• DC Calculus, DC Finite, DC Stats, AP Computer Prog</li> <li>• Finite/Stats</li> </ul>
<b>PreCalculus/Trig**</b>	<ul style="list-style-type: none"> <li>• A or B</li> <li>• C or below</li> </ul>	<ul style="list-style-type: none"> <li>• DC Finite, AP Computer Prog, or Finite/Stats</li> <li>• Finite/Stats</li> </ul>
<b>DC Finite</b>	<ul style="list-style-type: none"> <li>• A or B</li> <li>• C or D</li> <li>• F</li> </ul>	<ul style="list-style-type: none"> <li>• Pre-Calculus/Trig, AP Comp. Prog</li> <li>• CCR Bridge, Math 10</li> <li>• Finite/Stats</li> </ul>
<b>Finite/Stats</b>	<ul style="list-style-type: none"> <li>• Any Grade</li> </ul>	<ul style="list-style-type: none"> <li>• CCR Bridge: Math Ready</li> </ul>

\*Students with appropriate test scores and teacher recommendation could possibly go to Dual Credit.

# MATHEMATICS DEPARTMENT

All Warren Central students will develop proficiency in algebra and cultivate their quantitative reasoning skills, enabling them to compete in the global economy.

	Core 40 Sequence	Advanced Core Sequence	Excel/AP Sequence
<b>Grade 9</b>	Algebra I Core	Geometry Adv. Core	Geometry 1X – 2X
<b>Grade 10</b>	Geometry Core	Algebra II Adv. Core	Algebra II/3X – 4X
<b>Grade 11</b>	Algebra II Core	Math Elective	Dual Credit PreCalculus/Trig
<b>Grade 12</b>	Math Elective	Math Elective	AP or Dual Credit Calculus

Electives (P)	AP & Dual Credit Courses (P)	Support Courses
CCR Bridge: Math Ready	Pre- Calculus & Trig, Ivy Tech	Algebra I Lab *
Math 10	Calculus, Ivy Tech	Math Lab*
Pre-Calculus & Trig	Statistics, Ivy Tech	
Finite Math (1st only)	Finite Math, Ivy Tech (2 semesters)	
Probability & Statistics (2nd only)	AP Computer Programming	
(P) - Prerequisites apply	AP Calculus	

***\*Support courses are not QR courses. Every other math course is a Quantitative Reasoning course.***

## ALGEBRA I/1-2 (6451) (6452)

**Grades 9-10-11-12**

Algebra I is made up of 5 strands: Real Numbers and Expressions; Functions; Linear Equations, Inequalities, and Functions; Systems of Equations and Inequalities; Quadratic and Exponential Equations and Functions; and Data Analysis and Statistics. Algebra I is required for graduation. Additionally, it is considered the “gateway” course for all advanced mathematics courses.

## ALGEBRA I LAB (6031) (6032)

**Grade 9**

Students will be enrolled in this course based on recommendations from the middle school. This course is a support course for Algebra I, offered as an elective credit. It will reinforce the basic skills necessary for success in Algebra I as well as support the Algebra I curriculum.

## CCR BRIDGE: MATH READY (6051) (6052)

**Grades 11-12**

CCR Bridge: Math Ready will reinforce the Algebra I and introduce some basic Geometry, Algebra 2 and Statistics skills necessary to be ready for an entry-level college math course. This course emphasizes understanding of math concepts rather than just memorizing procedures. **This course counts as a math credit for all diploma types. This course is recommended for those students that have not passed the graduation qualifying exam.**

## GEOMETRY 1-2 CORE (6341) (6342)

**Grades 10-11-12**

**Prerequisite: Algebra I**

Geometry is made up of seven strands: Logic and Proofs; Points, Lines, Angles, and Planes; Triangles; Quadrilaterals and Other Polygons; Circles; Transformations; and Three-dimensional Solids. There is a dual emphasis on the ability to develop formal mathematical arguments and proofs as well as deepen Algebra I skills.

## GEOMETRY 1-2 ADVANCED CORE (6501) (6502)

**Grade 9-10**

**Prerequisite: A grade of B- or better in 8<sup>th</sup> Grade Algebra or recommendation from High School Algebra Teacher**

Geometry is made up of seven strands: Logic and Proofs; Points, Lines, Angles, and Planes; Triangles; Quadrilaterals and Other Polygons; Circles; Transformations; and Three-dimensional Solids. There is a heavy emphasis on the ability to develop formal mathematical arguments and proofs. Advanced Core Geometry assumes a mastery of Algebra I

**GEOMETRY 1X-2X (6511) (6512) Weighted****Grade 9****Prerequisite: A grade of B- or better in 8<sup>th</sup> Grade Excel Algebra and Invitation**

Participation in this course is by invitation only. This class will include topics covered in Geometry (6501-6502). Materials may be presented at a faster pace or a greater depth. Some additional topics may be included. Students will solve non-routine problems on a regular basis, preparing them for the AP exams.

**ALGEBRA II/3-4 CORE (6411) (6412)****Grades 11-12****Prerequisite: Algebra I/1-2****Graphing Technology Required**

This course will cover the Indiana Standards for Algebra II. Building on earlier course work, students will expand their notion of functions to include linear, quadratic, exponential, logarithmic, rational, radical, and polynomial functions. Complex numbers are introduced. A's and B's in this course will prepare students for Pre-Calculus/Trigonometry.

**ALGEBRA II/3-4 ADVANCED CORE (6431) (6432)****Grade 10-11****Prerequisite: Geometry Advanced Core or recommendation of teacher****Graphing Technology Required; TI-84 Graphing Calculator Preferred**

This course will cover all of the Indiana Standards for Algebra II. Building on earlier course work, students will expand their notion of functions to include linear, quadratic, exponential, logarithmic, rational, radical, and polynomial functions. Complex numbers are introduced. \*Special permission could be granted for exceptional students to take Geometry and Algebra II concurrently. A's and B's in this course will prepare students for Pre-Calculus/Trigonometry.

**ALGEBRA II/3X -4X (6421) (6422) Weighted****Grade 10****Prerequisite: Geometry X****Graphing Technology Required; TI-84 Graphing Calculator Preferred**

Participation in this course is by invitation only. This course will cover all of the Indiana Common Core Standards for Algebra II. Building on earlier course work, students will expand their notion of functions to include linear, quadratic, exponential, logarithmic, rational, radical, and polynomial functions. Complex numbers are introduced. Students will solve non-routine problems on a regular basis, preparing them for the AP exams. A's and B's in this course will prepare students for Pre-Calculus/Trigonometry.

**MATH 10 1-2 (6061) (6062)****Grade 10-11-12**

Math 10 is a two-semester course designed to reinforce and elevate the Algebra 1 and 8th grade geometry knowledge and skills necessary for students to successfully complete high school mathematics courses beyond Algebra 1 and essentials for passing the state's graduation qualifying exam in mathematics. Enrollment will be contingent upon recommendation of the Algebra I teacher based on diagnostic results of performance in Algebra I and/or mathematics competency assessments. The standards for this course are aligned to the state standards that students need to master for success with the state's graduation qualifying exam in mathematics and the next level math courses. Emphasis is on a variety of instructional methods designed to meet each student's needs and delivered through competency-based units with frequent pre and post assessment data analyzed to drive instructional design and delivery.

**MATH LAB (6001) (6002)****Grades 11-12 (one semester)**

Mathematics Lab provides students with individualized instruction designed to support success in completing mathematics coursework aligned with Indiana's Academic Standards for Mathematics. Mathematics Lab is to be taken in conjunction with Algebra II. This course is an elective. It is also NOT considered a Quantitative Reasoning course.

**FINITE MATHEMATICS (6621)****Grades 11-12 (1<sup>st</sup> semester only)****Prerequisites: Algebra II/3-4 and Geometry 1-2****Graphing Technology Required; TI-84 Graphing Calculator Preferred**

This is a one-semester course. Students will study the mathematics involved with counting techniques, matrices, recursion, graph theory, linear programming, and game theory. This course is an excellent 4<sup>th</sup> year quantitative reasoning course, preparing students for college or career.

**PROBABILITY AND STATISTICS (6622)****Grades 11-12 (2<sup>nd</sup> semester only)****Prerequisites: Algebra II/3-4 and Geometry 1-2**

In this course, students will explore the use of statistics and probability. Topics to be explored include analysis and display of data, statistical averages, distribution of data, sampling techniques, and decision-making. Students may use graphing calculators and computers to perform the mathematical calculations needed to analyze data sets. An understanding of Probability and Statistics is essential for most career paths including business, education, health professions, and the sciences.

**PRECALCULUS / TRIGONOMETRY (6591) (6592) Weighted****Grades 11-12****Prerequisite: A minimum of a C in Algebra II****Graphing Technology Required**

A functional approach is used to study families of functions, including rational, polynomial, exponential, and logarithmic functions. A great deal of emphasis will be placed on practical applications and mathematical modeling. Semester 2 is a study of trigonometry, including periodic functions, applying and proving trigonometric properties and theorems, and a study of polar coordinates.

**DC PRECALCULUS /DC TRIGONOMETRY (6601) (6602) Weighted****Grades 11-12****Dual Credit Ivy Tech (Math 136/137 - 3 hours each)****Prerequisites for Dual Credit: ACT 24, PSAT 27 (2015), SAT 520, Accuplacer 74, or IDOE Accuplacer 92****Prerequisites also include A's or B's in Algebra II/3-4 (10 or X)****Graphing Technology Required; TI-84 Graphing Calculator Preferred**

A functional approach is used to study families of functions, including rational, polynomial, exponential, and logarithmic functions. A great deal of emphasis will be placed on practical applications and mathematical modeling. Semester 2 is a study of trigonometry, including periodic functions, applying and proving trigonometric properties and theorems, and a study of polar coordinates. Students who take this course may be considering a STEM career.

**ADVANCED MATH COLLEGE CREDIT/FINITE (6681) (6682) Weighted****Grades 11-12****Dual Credit Ivy Tech (Math 135 - 3 hours)****Prerequisites for Dual Credit: ACT 24, PSAT 27 (2015), SAT 520, Accuplacer 74, or IDOE Accuplacer 92****Prerequisites also include A's or B's in Algebra II/3-4 OR C's or better in Advanced Modeling & Analysis or comparable course.**

Students will study the mathematics involved with counting techniques, matrices, recursion, graph theory, linear programming, game theory, basic probability, and statistics. This course is an excellent 4<sup>th</sup> year quantitative reasoning course for students not planning to pursue a STEM career.

**AP CALCULUS 1-2 (6611) (6612) Weighted****Grade 12****AP exam expected****Prerequisite: An A in Pre-Calculus/Trig****Graphing Technology Required; TI-84 Graphing Calculator Preferred**

Students taking this course must have earned an A in DC Pre-Calculus/Trig or have Department Chair approval. In this course the concept of limit is used to develop the derivative of a function. The derivatives are applied to scientific problems involving distance, velocity, and acceleration. Also, a function and its derivative are sketched and analyzed to determine extrema, increasing/decreasing slope, inflection, and concavity. A brief introduction to integration is applied to find the area under a curve. Students will regularly solve non-routine problems, preparing them for the AP exam. Students who take this course may be considering a STEM career.

**CALCULUS 1-2 (6651) (6652) Weighted****Grade 12****Dual Credit Ivy Tech (Math 211 – 5 credits)****Prerequisites for Dual Credit include C's or better in Pre-Calculus DC/Trigonometry DC (both semesters) OR an Accuplacer score of 86 on College Level Math****Prerequisite: C or better in College Algebra/Trig****Graphing Technology Required; TI-84 Graphing Calculator Preferred**

Students taking this course must have earned a C or better in DC Pre-Calculus/Trig and/or earned a minimum qualifying score on the placement exam. This course will cover the same material as AP Calculus, but students can earn dual credit from Ivy Tech. In this course, the concept of limit is used to develop the derivative of a function. The derivatives are applied to scientific problems involving distance, velocity, and acceleration. Also, a function and its derivative are sketched and analyzed to determine extrema, increasing/decreasing slope, inflection, and concavity. A brief introduction to integration is applied to find the area under a curve. Students who take this course may be considering a STEM career.

**AP COMPUTER PROGRAMMING (6721) (6722) Weighted****Grades 11-12****AP exam expected****Prerequisites: College Algebra/Trig or concurrently enrolled in College Algebra/Trig**

This course is designed for those students who plan to study engineering, computer science, mathematics, or another field that uses computer technology. Students in this course should have completed Pre-Calculus/Trig or be concurrently enrolled. Components of this course include: program design, program implementation, program analysis, data structures, algorithms, and computing in context. Students will regularly engage in solving non-routine problems and developing their own computer programs.

**ADVANCED MATH COLLEGE CREDIT/STATISTICS (6631) (6632) Weighted****Grade 12****Dual Credit Ivy Tech (Math 200)****Prerequisites for Dual Credit include C's or better in DC Pre-Calculus/DC Trigonometry (both semesters) OR an Accuplacer score of 86 on College Level Math****Prerequisite: College Algebra/Trig or an A in Adv. Modeling/Trig****Graphing Technology Required; TI-84 Graphing Calculator Preferred**

This course is a rigorous, college-level statistics course. Some topics covered will be gathering and exploring data, randomness, probability, sampling, and regression. Students will have to design their own experiments, collect and analyze data, and draw conclusions. Students will also regularly solve non-routine problems, preparing them for college and career. Statistics is required in MANY college majors including social work, behavioral sciences, and health professions.

# PERFORMING ARTS DEPARTMENT

The mission of the Performing Arts Department is to develop students who achieve literacy and understanding of the performing arts.

ALL STUDENTS WILL BE PLACED IN THE APPROPRIATE BAND, ORCHESTRA, AND VOCAL MUSIC CLASSES BASED ON AUDITIONS. PLACEMENT DECISIONS ARE FINALIZED BY THE RESPECTIVE DIRECTOR

## **BAND & COLOR GUARD**

### **GOLD BRIGADE MARCHING BAND**

**All students who would like to be considered for Honors Band are encouraged to participate in the Gold Brigade marching band for at least one season.**

Students with health problems, as determined by a physician, participating in Warren Central fall sports, and double reed players are exempt from this requirement. If a student cannot provide physician's notice about health issues or does not try out for or make the fall sport intended, he/she is no longer exempt from marching band.

Band camp is scheduled prior to the start of school in order to teach the marching show and fundamentals of music and marching. The Gold Brigade performs at home football games and competes in festivals and parades. Extra rehearsals are required as part of membership. Students must purchase black gloves and black marching shoes. Uniforms, staff, and music are provided for a membership fee. The membership fee must be paid to maintain membership. Involvement in sports, church, or school activities does not prevent participation in the Gold Brigade. Students will earn a letter for marching band after completing two seasons. Students will earn chevrons for all years after the first two. Students completing one marching band season are eligible for one PE credit.

### **INTERMEDIATE CONCERT BAND/CONCERT (1731) (1732) Grades 9-10-11-12**

Membership is by audition during the prior spring semester or by director special permission. There is a nominal fee to cover costs and participation in the ensemble. The group performs Group III and IV level music of moderate difficulty. Some time will be devoted to marching band literature. Members must attend concert performances, contests, and limited extra rehearsals outside of the school day. Private lessons and participation in solo and ensemble are encouraged and recommended. A passing grade during Semester 1 is required for participation during Semester 2. Additional involvement in jazz band is possible and encouraged. A limited number of instruments may be provided through an instrument rental program (for a nominal fee).

### **INTERMEDIATE CONCERT BAND/SYMPHONIC (1741) (1742) Grades 9-10-11-12**

Membership is by audition during the prior spring semester for specific instrumentation or by director special permission. There is a nominal fee to cover costs and participation in the ensemble. The group performs Group II and III level music of moderate and advanced difficulty. Some time will be devoted to marching band literature. Members must attend concert performances, contests, and limited extra rehearsals outside of the school day. Private lessons and participation in solo and ensemble is encouraged and recommended. A passing grade during Semester 1 is required for participation during Semester 2. Additional involvement in jazz band and marching band is possible and encouraged. A limited number of instruments may be provided through an instrument rental program (for a nominal fee).

### **ADVANCED CONCERT BAND/HONORS (1761) (1762) Weighted Grades 9-10-11-12**

**Freshmen selected for Honors Band must also be in the Gold Brigade Marching Band or have an approved exemption.**

The Honors Band is a select group of the finest instrumental musicians at Warren Central High School. Membership is by audition during the spring semester for specific instrumentation or by special permission of the director. Students enrolled in this ensemble are required to participate both semesters. There is a nominal fee to cover costs and participation in the ensemble. The group performs music of advanced difficulty. Some time will be devoted to marching band literature. Members must attend concert performances, contests, and extra rehearsals outside of the school day. Weekly rehearsals and sectionals are required. A nominal membership fee is charged. Private lessons and participation in solo and ensemble are encouraged and recommended. Additional involvement in jazz band is possible and encouraged. A limited number of instruments may be provided through an instrument rental program (for a nominal fee).

## **INTERMEDIATE CONCERT BAND/PERCUSSION (1711) (1712)**

**Grades 9-10-11-12**

This will include the following instruments: Concert percussion, Marching percussion, Mallet instruments, Timpani, and Latin percussion.

Membership is by audition during the prior spring semester for specific instrumentation or by director special permission. Participation in the Gold Brigade Marching Band (summer/fall season) and the Indiana Percussion Association Winter Percussion Ensemble (fall/winter season) are both REQUIRED for enrollment. Members must attend concert performances, contests, and extra rehearsals outside of the school day. A membership fee is charged each semester. Private lessons and participation in solo and ensemble are encouraged. A passing grade during Semester I is required for participation during Semester II. Additional involvement in jazz band and concert bands is possible and encouraged. A limited number of instruments may be provided through an instrument rental program. All percussionists must pay a \$35 instrumental rental fee in addition to each semester's membership fee.

## **JAZZ ENSEMBLE (1701) (1702)**

**Grades 9-10-11-12**

**Only open to students in grades 9-12 by audition only or by director's special permission.**

Concurrent membership in a band or orchestra is required. There is a nominal fee to cover costs and participation in the ensemble. The Jazz Band will perform at festivals, contests, concerts, and special events. Members must attend performances and rehearsals outside of the school day. Emphasis is placed on ensemble sound, articulation, and reading skills. Sometime will be devoted to the study of improvisation and jazz as a unique and stylistically varied art form.

## **DANCE PERFORMANCE (1751) (1752)**

**Grades 9-10-11-12**

**Students are required to purchase performance shoes/uniforms, and equipment**

Membership is open to any student and determined by audition in the spring of the preceding semester. Previous experience in music or dance is helpful but not required. The course is designed to cover visual interpretation of various styles of music through equipment handling, marching and maneuvering, and choreography. Fundamentals of modern dance, jazz, ballet, and marching are covered. Performances with the "Gold Brigade" Color Guard are required as well as extra rehearsals during the summer and first semester. Second semester involves Winter Guard activities, during which time students continue their study through development of shows to be performed in a gymnasium. Participation in both the Color Guard and Winter Guard is required for enrollment; enrollment is required for participation in the Color Guard and Winter Guard. Additional qualified staff/choreographers are utilized for instruction. Additional practices, contests, and shows are required outside of the school day. A membership fee is assessed each semester.

# **ORCHESTRA**

## **INTERMEDIATE ORCHESTRA/FESTIVAL (1621) (1622)**

**Grades 9-10-11-12**

Membership is by audition during the prior spring semester or by director special permission. There is a nominal fee to cover costs and participation in the ensemble. The group performs Group III and IV level music of moderate difficulty. Emphasis is placed on developing intermediate and advanced performance skills and preparing students for membership in Concert and Philharmonic Orchestra. Members must attend concert performances, contests, and extra rehearsals outside of the school day. Private lessons and participation in solo and ensemble are encouraged and recommended. A passing grade during Semester 1 is required for participation during Semester 2. A limited number of instruments may be provided through an instrument rental program (for a nominal fee).

## **INTERMEDIATE ORCHESTRA/CONCERT (1631) (1632)**

**Grades 9-10-11-12**

Membership is by audition during the prior spring semester for specific instrumentation or by director special permission. There is a nominal fee to cover costs and participation in the ensemble. The group performs Group II and III level music of moderate difficulty. Emphasis is placed on developing intermediate and advanced performance skills and preparing students for membership in Philharmonic and Symphony Orchestra. Members must attend concert performances, contests, and extra rehearsals outside of the school day. Private lessons and participation in solo and ensemble are encouraged and recommended. A passing grade during Semester 1 is required for participation during Semester 2. A limited number of instruments may be provided through an instrument rental program (for a nominal fee).

## **ADVANCED ORCHESTRA/PHILHARMONIC (1651) (1652)**

**Grades 9-10-11-12**

Membership is by audition during the prior spring semester for specific instrumentation or by director special permission. There is a nominal fee to cover costs and participation in the ensemble. The group performs Group I and II level music of moderate to advanced difficulty. Emphasis is placed on developing advanced performance skills and preparing students for membership in Symphony Orchestra. Members must attend concert performances, contests, and extra rehearsals outside of the school day. Private lessons and participation in solo and ensemble are encouraged and recommended. A passing grade during Semester 1 is required for participation during Semester 2. A limited number of instruments may be provided through an instrument rental program (for a nominal fee).

## **ADVANCED ORCHESTRA/SYMPHONY (1641) (1642) Weighted**

**Grades 9-10-11-12**

Symphony Orchestra is a select group of the finest orchestral musicians at Warren Central. Members of the string section are selected by audition. Woodwind, brass, and percussion section members are selected by audition from students in Honors Band (membership in Honors Band is required). The Symphony Orchestra performs a wide variety of music from classical to popular/pops throughout the year. Emphasis is placed on achieving the highest performance standard possible. There is a nominal fee to cover costs and participation in the ensemble. Students enrolled in this ensemble are required to participate both semesters. Any variation of this requirement must be discussed with the director. Weekly rehearsals and sectionals are required, as well as all performances.

## **CHOIR**

### **BEGINNING WOMEN'S CHORUS/FERMATAS (1831) (1832)**

**Grades 9-10-11-12**

This chorus is comprised of sopranos and altos from all grade levels. The course focuses on developing good vocal technique as well as skills in music theory, and sight-reading. This ensemble performs at school and local events, concerts, festivals, and competitions. The Fermatas sing a varied repertoire of music including pop, classical, jazz, musical theatre, and gospel. Students involved are required to pay a participation fee to help defray costs of costumes, music, and supplies. **Audition is required for placement.**

### **BEGINNING MEN'S CHORUS/BOYS OF HARMONY (1841) (1842)**

**Grades 9-10-11-12**

This chorus is comprised of tenors and basses from all grade levels. The course focuses on developing good vocal technique as well as skills in music theory, and sight-reading. This ensemble performs at school and local events, concerts, festivals, and competitions. Boys of Harmony sing a varied repertoire of music including pop, classical, jazz, musical theatre, and gospel. Students involved are required to pay a participation fee to help defray costs of costumes, music, and supplies. **Audition is required for placement.**

### **INTERMEDIATE WOMEN'S CHORUS/BELLA NOTE (1851) (1852)**

**Grades 9-10-11-12**

This chorus is comprised of sopranos and altos and is an intermediate level choir focusing on the continual development of good vocal technique, as well as skills in music theory and sight-reading. This ensemble performs at school and local events, concerts, festivals, and competitions. Bella Note will sing a varied repertoire of music including pop, classical, jazz, musical theatre, and gospel. They also incorporate choreography and staging into performances. Students involved are required to pay a participation fee to help defray the costs of costumes, music, and supplies. **Audition is required for placement.**

### **INTERMEDIATE WOMEN'S CHORUS/SPIRIT (1861) (1862)**

**Grades 9-10-11-12**

This ensemble is the intermediate ensemble for women only (sopranos and altos). This choir focuses on the continual development of good vocal technique, choreography, as well as skills in music theory and sight-reading. This group has an extensive performance schedule. Weekly rehearsals outside of class time are required for participation in this group. Admission into this ensemble is based on skills in sight-reading, vocal technique, dance skills, musicianship, past musical experiences, and poise. Spirit is a year-long commitment. Students in this ensemble are required to pay a participation fee for costumes, music, and supplies. Spirit performs at local and school events, concerts, festivals, and competitions. **An extensive audition is required for placement.**



### **ADVANCED WOMEN'S CHORUS/HI-LITES (1871) (1872)**

#### **Grades 10-11-12**

This ensemble is the top ensemble for women only (sopranos and altos). Course includes advanced study of vocal techniques, music theory, sight-reading, and choreography. This group has an extensive performance schedule. Weekly rehearsals outside of class time are required for participation in this group. An extensive audition is conducted for participation in this group. Admission into this ensemble is based on skills in sight-reading, vocal technique, dance skills, musicianship, past musical experiences, and poise. Hi-Lites is a year-long commitment. Students in this ensemble are required to pay a participation fee for costumes, music and supplies. Hi-Lites performs at local and school events, concerts, festivals, and competitions. **An extensive audition is required for placement.**

### **ADVANCED MIXED CHORUS/CONNECTION (1881) (1882)**

#### **Grades 10-11-12**

Connection is the top mixed ensemble of sopranos, altos, tenors, and basses. Course includes advanced study of vocal technique, music theory, sight-reading and choreography. Class repertoire includes pop, musical theatre, jazz, classical, and gospel. This group has an extensive performance schedule. Weekly rehearsals outside of class time are required for participation in this ensemble. Admission into this ensemble is based on skills in sight-reading, vocal technique, dance skills, musicianship, past musical experiences, and poise. Connection is a year-long commitment. Students in this ensemble are required to pay a participation fee for costumes, music and supplies. Connection performs at local and school events, concerts, festivals and competitions. **An extensive audition is required for placement.**

### **ADVANCED MIXED CHORUS/CHAMBER SINGERS (1891) (1892) Weighted**

#### **Grades 10-11-12**

This chorus is comprised of a small group of sopranos, altos, tenors, and basses. This advanced choir focuses on a varied repertoire including madrigals, chamber pieces, and vocal jazz. In addition to performances, the group focuses on fine-tuning skills in music theory, vocal technique, and sight-reading. The Chamber Singers perform at local and school events, concerts, festivals, and competitions. Students involved are required to purchase their own madrigal costume and pay a participation fee for additional costumes, music, supplies, etc. Chamber Singers is a yearlong commitment. Extra rehearsals are required for participation in this group. **An extensive audition is required for placement.**

## **OTHER MUSIC ELECTIVES**

### **PIANO & ELECTRONIC KEYBOARDING I/1-2 (1911) (1912)**

#### **Grades 9-10-11-12**

**Students are required to provide headphones with an 1/8" plug.**

**Prerequisite: Audition or instructor permission required**

This course instructs beginning students in the fundamentals of the piano keyboard. No previous musical experience is required in order to audition for this course. Basic fundamentals of music are learned. Each student has an electronic keyboard for individual use. Students may be expected to participate in a recital. Successful completion of the first semester is a prerequisite for semester two.

### **PIANO & ELECTRONIC KEYBOARDING II/3-4 (1921) (1922)**

#### **Grades 10-11-12**

**Students are required to provide headphones.**

Piano & Electronic Keyboarding II/3-4 are courses designed for the student who has successfully completed Piano & Electronic Keyboarding I/1-2 and can perform at an intermediate to advanced level. Music reading and knowledge of fundamental music theory are required. Students may be expected to participate in a recital. Successful completion of the first semester is a prerequisite for semester two. ***Entrance will be by audition or by recommendation of the Piano 1-2 instructor.***

### **AP MUSIC THEORY 1-2 (1951) (1952) Weighted**

#### **Grades 10-11-12**

#### **Weighted**

This course examines rhythm, harmony, and melody through various periods of music literature. Listening skills are emphasized through styles of music. Sight singing and melodic dictation are also elements of first semester. An outline of the AP Music Theory exam will be presented and discussed including sample questions and exercises. AP testing is strongly encouraged for all students enrolling in the course. Concurrent enrollment in a music ensemble is helpful but not required. First semester AP Music Theory is a prerequisite for semester two, which deals with melody, part writing, and musical analysis. Second semester also focuses on student composition. Class entrance is determined by pre-testing, demonstrating music reading, and performing proficiency.

## **THEATRE**

### **THEATRE ARTS I/1-2 (2001) (2002)**

#### **Introduction to the Concepts of the Stage Grades 9-10-11-12**

This is a beginning level drama course. This class is a survey course of the different aspects of theatre. Students will learn about the history of theatre, playwriting, directing, and the various parts of producing a play. Students will also study technical theatre and learn how to build stage models and come up with a design plan for a play. Students will read several plays throughout the year and focus on plot and character development. Students will learn about the acting process and be asked to perform in front of the class throughout the year. Second semester is a continuation of first semester and will focus more closely on acting and performance. Students who desire placement in the Theater Production or Advanced Theatre Arts classes should take Theatre Arts I.

### **THEATRE PRODUCTION II/1-2 (2011) (2012)**

#### **Intermediate Acting & Production Concepts Grades 10-11-12**

**Prerequisite:** Passing grades in both semesters of Theatre Arts I/1-2 as well as extensive audition or instructor permission.

This course is open to students who have successfully completed and passed both semesters of Theatre Arts I/1-2 and an audition with the instructor. Students will learn the theatrical perspective of the artistic process by producing their own theatrical productions. Students have the opportunity to direct, design, and perform in multiple productions. Students will study the basics of directing techniques, performing in a variety of theatre spaces, and designing for a production team. In addition to working on in-class productions, students will be instructed on concepts of acting on stage, such as voice and vocal projection, movement, audition technique, and character developments. Students are required to participate in one after-school performance each semester.

Second semester is a continuation of the first semester with the focus on one or more acting methods and writing their own scripts. Students will also learn about various aspects of theatre production and design.

### **ADVANCED THEATRE ARTS I/1-2 (2021) (2022)**

#### **Advanced Acting Grades 10-11-12**

**Prerequisite:** Passing grades in both semesters of Theatre Arts I/1-2 as well as extensive audition or instructor permission.

This course is open to students who have successfully completed Theatre Arts I/1-2 and have an audition with the instructor. Students will build upon their previously acquired acting technique and skills by applying them to scenes and plays. Students will delve deeper into Shakespeare, theatre history, improvisation and various other aspects of theatre and acting. Each semester students will work on a theatre production, concentrating on the various aspects of production. This will culminate in a required evening performance each semester. This class will also work on auditioning skills for the theatre season at Warren, as well as preparing students for college auditions and coursework.

### **TECHNICAL THEATRE I/1-2 (2061) (2062)**

#### **Grades 9-10-11-12**

**Prerequisite:** Theatre Arts I/1-2 OR an extensive audition or instructor permission.

**\*\*\* Requires 10 hours of stage crew duties outside the school day. \*\*\***

This is a year-long lecture/laboratory course with major emphasis on the practical application of theatre technology. The classroom activity will be focused on theater terminology, theatre technology applications, theatre management, and a basic understanding of the craft. Students will study PAC performances, the stage and its equipment, tools and materials, production techniques, safety procedures, and stage properties. Since hands-on experience is an important part of understanding the material covered in class, 10 hours of stage crew duties outside the school day will need to be completed during each semester to successfully complete the class.

### **TECHNICAL THEATRE II/3-4 (2081) (2082)**

#### **Grades 10-11-12**

**Prerequisite:** Technical Theatre I/1-2 as well as extensive audition or instructor permission.

**\*\*\* Requires 50 hours of stage crew duties outside the school day. \*\*\***

This is a year-long lecture/laboratory course with major emphasis on theatre productions and advanced theatre technology applications. The classroom activity will be focused on technical theatre theory, examination of theatre practices, and theatrical design. Students will also study historical theatre technology and the evolution of stagecraft through history. The course will have a greater emphasis on preparing the students for theatre at the college and professional level. The students are expected to take leadership roles in the theatre productions during the course of the year.

# HEALTH AND PHYSICAL EDUCATION DEPARTMENT

**The mission of the Physical Education Department is to develop students who will make responsible decisions in regards to health and lifetime fitness activities.**

The Metropolitan School District of Warren Township recognizes Physical Education as part of the total educational process by providing a continuous and progressive program for grades K through 12. We, as physical educators, strive to promote the complete development of the physical, mental, social, emotional, and ethical growth of all individuals. Through the implementation of planned activities and organized play, we seek to develop honesty, fair play, and cooperation while enabling the students to recognize their own limitations and abilities.

## **PHYSICAL EDUCATION 1-2 (9401) (9402)**

### **Grade 9 Graduation Requirement (one full credit per semester)**

This course provides an opportunity for each student to improve their overall level of fitness while participating in a variety of sports, recreational games, aquatics, and fitness-focused activities. This course has recently been redesigned to incorporate blended learning (IPE). Students will learn in part through online delivery of content and instruction with some element of control over individual learning style. Students complete lessons, assignments, quizzes, evaluations, resources, and examinations on their own time allowing more time for physical activity during class. Evaluation will be based on daily preparation and participation, fitness testing data, and IPE scores. There is also a 3-week swim requirement. All students will be introduced to pool safety and proper stroke instruction. It is an expectation that all students complete two semesters of Basic P.E. during their freshman year.

Advanced physical education may not be substituted for the two required semesters of this course. However, one semester of required PE credit may be earned via participation in IHSA sports, cheerleading, marching band, or color guard.

## **ADAPTED PHYSICAL EDUCATION 1-2 (9411) (9412)**

### **Graduation Requirement (one full credit per semester)**

This course is designed for the student whose program must be adjusted due to physical problems or religious convictions. Each student is put on an individual program to meet the student's needs. Written medical and/or religious verification is required of every student. Swimming is also a part of this course.

## **MARINE CORPS JROTC 1-2, 3-4 (9461/9462) (9491/9492) (9531/9532) (9541/9542)**

### **Grades 9-12 (one full credit per semester)**

#### **(Year 1=PE credits Year 2, 3, 4 = JROTC credits)**

The Marine Corps Reserve Officers Training Corps will include classes in the following categories: leadership, citizenship, personal growth and responsibility, public service and career exploration, and general military subjects. Cadets also participate in physical training activities, uniform inspections, close order drill, and rifle marksmanship.

This program provides for extracurricular participation on drill and rifle teams which compete against other schools. This course has scholarship opportunities and provides benefits for military service. Military service is not, however, a requirement. Military grooming standards must be maintained by all participating students.

This course will fulfill PE graduation requirements.

## **ELECTIVE PHYSICAL EDUCATION**

The following Physical Education elective courses are offered to students who have successfully completed Physical Education I. Students may take up to six elective PE credits during their high school career. The semester grade earned in these full credit courses is calculated in the cumulative GPA.

Students who select Elective Physical Education courses will be expected to:

- a. follow all rules & procedures of the Physical Education Dept.
- b. participate in physical and written assessments given by the instructor.

## **ADVANCED SWIMMING (9441)**

### **Grades 10-11-12 (fall semester)**

This course is designed to extend and refine the development of advanced skills in swimming. The course is for intermediate to advanced swimmers and will cover the mechanics of the front crawl, back crawl, breast stroke, elementary backstroke, sidestroke, and butterfly. Additional topics include diving, water entries and water fitness.

This course is a prerequisite for Lifeguard Training and is only offered first semester.

## **LIFETIME FITNESS (9431) (9432)**

### **Grades 10-11-12**

This course will focus on exploring physical activities that individuals can participate in for life! This will include participation in games and sports that are traditional and non-traditional, and fitness-based activities that include the 5 main components of fitness. Fitness levels will be assessed as students learn and develop a path to an active and fit lifestyle! **New activity weekly!**

## **LIFEGUARD TRAINING (9442)**

### **Grades 9-10-11-12 (spring semester)**

**Prerequisites: 2 semesters of Core PE, must have completed**

**Advanced Swimming or approval from the instructor**

A student taking this course will receive training in CPR for the professional rescuer and lifeguard training. Upon successful completion (B- or higher) of the course requirements, a student will be awarded certificates in both courses. The course fees are used to purchase 2 textbooks, a rescue breathing pocket mask, certification, and other supplies required for the course.

This course is only offered second semester.

## **ATHLETIC WEIGHTS**

**HEAVY (9591-9592) Football, Wrestling, Track & Field Throwers**

**MEDIUM (9561-9562) Baseball, Track and Field, Swimmers, Boys Basketball, Girls Basketball, Soccer**

**LIGHT (9551-9552) Women's Sports, Cross Country, Track and Field, Tennis & Golf**

### **Grades 10-11-12**

It is suggested that student athletes pair one semester of Athletic Weights with Sports Nutrition in order to provide a well-rounded education of how to not only prepare their bodies physically, but also nutritionally.

This class is open only to athletes participating in a school-sponsored sport. To enroll, an athlete must have the recommendation of the head coach in his/her specific sport.

This course offers instruction in the techniques of weight training and conditioning as it pertains to athletic competition. The class is designed to weight train four to five days a week with conditioning, stretching, and agility incorporated.

Senior athletes who do not compete in any spring sport will not be permitted in the second semester class. Seniors who compete in winter sports will be permitted in the second semester athletic weights throughout the remainder of the school year but must sign a contract to ensure proper work ethic.

\*\*\*A 9<sup>th</sup> grade athlete may enroll in second semester athletic weights with the recommendation of the head coach, successful completion of Physical Education I, and with the permission of his/her parent(s).

## **HEALTH EDUCATION**

## **HEALTH EDUCATION (9301) (9302) (9321) (9322)**

### **Grade 9 & 10 (one semester, 1 Credit)**

4 sections offer in-class i-health which is on-line. 11 sections offer in class project based learning

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

## **HEALTH EDUCATION ELECTIVES**

### **CPR/FIRST AID (9451) (9452)**

**Grades 10-11-12 (one semester)**

This course is designed to help the student learn how to identify ways to prevent injury/illness, recognize when an emergency has occurred, follow emergency action steps in any emergency, and to provide care for the injured or ill person. Students will have quality time to practice the needed skills to perform CPR, rescue breathing, conscious/unconscious choking, and emergency first aid efficiently and effectively with confidence. A minimal A.R.C. administrative fee will also be charged. Purchase of a text is required along with a charge for supplies. Upon successful completion of this course (B- or higher), a certificate will be issued.

### Science Department Scheduling Guidelines 2018-2019

STUDENTS currently in:	Earning a Grade of:	Should enroll in:
<b>Biology</b>	<ul style="list-style-type: none"> <li>• A</li> <li>• B or C</li> <li>• D, F</li> </ul>	<ul style="list-style-type: none"> <li>• Chemistry OR AdvSciCC-Chem (M/T)</li> <li>• Chemistry, PLTW (DE w/Chem)</li> <li>• ICP/Earth Science</li> </ul>
<b>Biology X</b>	<ul style="list-style-type: none"> <li>• A, B, C</li> <li>• D, F</li> </ul>	<ul style="list-style-type: none"> <li>• AdvSciCC-Chem (M), PLTW (DE w/Chem or AdvSciCC-Chem)</li> <li>• Chemistry</li> </ul>
<b>Chemistry</b>	<ul style="list-style-type: none"> <li>• A</li> <li>• B</li> <li>• C</li> <li>• D or F</li> </ul>	<ul style="list-style-type: none"> <li>• Physics X/AdvSciCC-Phys (M), AdvSciCC-Bio, AP Chem, Anat/Phys, Zoo, PLTW</li> <li>• Physics X/AdvSciCC-Phys (M), Zoo, Anat/Phys, Marine</li> <li>• Marine, Zoo, Earth Science</li> <li>• ICP, Earth Science, Marine, Astronomy/Meteorology or retake Chem</li> </ul>
<b>AdvSciCC-Chem</b>	<ul style="list-style-type: none"> <li>• A, B or C</li> <li>• D</li> <li>• F</li> </ul>	<ul style="list-style-type: none"> <li>• Physics X/AdvSciCC-Phys (M), AdvSciCC-Bio, AP Chem, (Anat/Phys, Zoo, PLTW)</li> <li>• Physics, Zoo, Anat/Phys, Marine</li> <li>• ICP, Earth Science, Marine, or retake reg Chem</li> </ul>
<b>AdvSciCC-Bio or AP Chem</b>	<ul style="list-style-type: none"> <li>• A,B,C</li> <li>• D</li> <li>• F</li> </ul>	<ul style="list-style-type: none"> <li>• Physics X/AdvSciCC-Phys (M), AdvSciCC-Bio, AP Chem, Anat/Phys, Zoo, Genetics, Physics, PLTW</li> <li>• Physics, Genetics, Zoo, Anat/Phys, Marine</li> <li>• ICP, Earth Science, Marine, or retake reg Chem</li> </ul>
<b>ICP</b>	<ul style="list-style-type: none"> <li>• A or B</li> <li>• C</li> <li>• D, F</li> </ul>	<ul style="list-style-type: none"> <li>• Chemistry (M), PLTW (DE w/Chem), Astronomy/Meteorology (M)</li> <li>• Marine, Earth Science, Astronomy/Meteorology (M)</li> <li>• Earth Science or retake ICP</li> </ul>
<b>Earth Science</b>	<ul style="list-style-type: none"> <li>• A or B</li> <li>• C,</li> <li>• D</li> <li>• F</li> </ul>	<ul style="list-style-type: none"> <li>• ICP, Marine, Astronomy/Meteorology (M)</li> <li>• ICP, Astronomy/Meteorology (M)</li> <li>• ICP</li> <li>• ICP or retake Earth Science</li> </ul>
<b>Physics</b>	<ul style="list-style-type: none"> <li>• A or B</li> <li>• C or D</li> <li>• F</li> </ul>	<ul style="list-style-type: none"> <li>• AP Physics (M), AP Chem, AdvSciCC-Bio, Anat/Phys, Marine, Zoo, PLTW</li> <li>• Anat/Phys, Marine, Zoo</li> <li>• ICP (sem 1), Marine, Earth</li> </ul>
<b>AdvSciCC-Physics</b>	<ul style="list-style-type: none"> <li>• A or B</li> <li>• C or D</li> <li>• F</li> </ul>	<ul style="list-style-type: none"> <li>• AP Physics (M), AP Chem, AdvSciC- Bio, Anat/Phys, Zoo</li> <li>• Anat/Phys, Zoo, Marine</li> <li>• Physics, Marine</li> </ul>
<b>Anat/Phys or Zoology</b>	<ul style="list-style-type: none"> <li>• A or B</li> <li>• C - D</li> <li>• F</li> </ul>	<ul style="list-style-type: none"> <li>• AdvSciCC-Physics, Anat/Phys, Zoo, Physics</li> <li>• Physics, Anat/Phys, Zoo, Marine, Astronomy/Meteorology</li> <li>• Earth Science or retake</li> </ul>
<b>Marine</b>	<ul style="list-style-type: none"> <li>• C or Better</li> <li>• D or F</li> </ul>	<ul style="list-style-type: none"> <li>• Chemistry, Physics, Anat/Phys, Zoo, Astronomy/Meteorology</li> <li>• ICP or Earth</li> </ul>

**(M) – Math pre-requisite  
(DE)- Dual Enroll**

**(T) – Teacher Recommendation**

**\*\*\*\*\*PLTW Medical Interventions can be taken concurrently with PLTW Human Body Systems\*\*\*\*\***

**\*\*\*\*\*PLTW Biomedical Innovations can be taken concurrently with PLTW Medical Interventions\*\*\*\*\***

# SCIENCE DEPARTMENT

**The mission of the Science Department is that all students become science literate, capable of using their knowledge of the natural laws of science to solve problems and make personal, social and ethical decisions.**

The total science curriculum endeavors to provide students with an understanding of science and its implications in the real world. The science course offerings attempt to meet the needs of all our students, be it to establish a minimal scientific literacy in a technological world or to establish the cornerstone of a scientific technological world or a scientific career. In light of these needs, students should study the science sequence chart and plan their high school science course study accordingly. Students must pass one year of the biological sciences and another year of the physical sciences in order to meet the Indiana State requirements for graduation. All courses are Core 40.

The WCHS Science Department sponsors several extra-curricular activities throughout the year. The Science Chem Club, Academic Superbowl, and the Science Olympiad Club are sponsored through the science department, Academic competitions such as Science Olympiad, and Academic Superbowl are available for interested science students.

## Science Overview

**\* = Recommended for Core 40 w/Academic Honors or Core 40 w/Technical Honors**

<ul style="list-style-type: none"> <li>*Anatomy/Physiology.</li> <li>*Astronomy</li> <li>*Biology</li> <li>*Biology College Credit</li> <li>*Chemistry I/1-2</li> <li>*Chemistry College Credit</li> <li>*AP Chemistry</li> <li>Earth Science</li> </ul>	<ul style="list-style-type: none"> <li>*Integrated Chemistry and Physics</li> <li>*Marine Biology</li> <li>*Meteorology</li> <li>*Physics I/1-2</li> <li>*Physics College Credit</li> <li>*AP Physics</li> <li>*PLTW Series</li> <li>*Zoology</li> </ul>
--	--

### BIOLOGY I/1-2 (7221) (7222)

#### Grade 9

Biology I/1-2 provides through coursework, laboratory, and hands-on investigations, a study of the structures and functions of living organisms and their interactions with their environment. Students will study the origins of life as well as the many life forms, the mechanics of living organisms from the viewpoint of chemistry, cell structure, genetics, and the relationships between organisms. Students will have opportunities to: (1) gain an understanding of the history of the development of biological knowledge (2) explore the uses of biology in various careers and (3) cope with biological questions and problems related to personal needs and social issues.

Biology is a required course for Science in the State of Indiana and foundational to all other science courses.

### BIOLOGY I/1X-2X (7211) (7212) Weighted

#### Grade 9 Two Semester

**Prerequisites:** 8<sup>th</sup> grade scores and recommendation and dual enroll in Geom. I/1-2 or Geom. I/1X-2X

**Enrollment is a FULL-YEAR commitment.**

Biology I/1X-2X covers the same curriculum topics as Biology I/1-2, but investigates many topics more deeply. 9<sup>th</sup> grade students who have been recommended from 8<sup>th</sup> grade science may take Biology /1 X-2 X.

Biology is a required course for Science in the State of Indiana and foundational to all other science courses.

## **ADVANCED SCIENCE COLLEGE CREDIT/BIOLOGY (7911) (7912)**

**Grades 11-12**

**Weighted and Dual Credit from Indiana University (ACP) (5 college credits)**

**Prerequisites: Biology I/1-2, Chemistry I/1-2 (C or higher recommended in Chemistry I/1-2, have passed the ISTEP), must apply to Indiana University and have at least a 2.7 GPA.**

**Enrollment is a FULL-YEAR commitment**

Advanced Science College Credit/Biology is a course that provides students with the content established by Advanced College Project. Topics include: (1) molecules and cells (2) heredity and evolution (3) organisms and organ systems. Students wishing to take ACP Biology must be self-motivated, have the desire to do college-level work, and be willing to commit extracurricular hours that college level classes require. Students interested in careers in life science, animal science, and medicine should consider this course.

Students will register for college credit in this course. This course provides students with an opportunity to obtain college credit at I.U. and high school credit simultaneously. Students will take the ACP Biology exam in the spring of the school year. The cost for this course is \$125 (\$25 per credit hour) which is a savings of several hundred dollars when compared to college pricing. Students who qualify for free/reduced lunch will have the tuition fee waived.

## **ANATOMY & PHYSIOLOGY 1-2 (7611) (7612) Weighted**

**Grades 11-12 (two semesters)**

**Prerequisites: Biology I/1-2, Chemistry I/1-2 (C or higher recommended in Chemistry I/1-2)**

The students will study the structures and functions of the major systems of the human body and their interrelationships. They will also consider some of the medical implications, tests, and treatments of each system. Laboratory experiences will be used whenever possible to enhance the understanding of the units.

The first semester will include an introduction to the human organism and its cellular basis of structure and function. Other topics will include the skin, skeleton, muscles, nerves, senses, and special glands of the body. The second semester will continue the study of systems to include digestion, cardiovascular, excretion, and reproduction. Students interested in a career in health sciences or animal sciences should consider this course.

## **ADV. SCIENCE/ASTRONOMY (7651)**

**Grades 11-12 (one semester)**

**Prerequisites: ICP or Earth Science, have passed or concurrently taking Algebra 2**

Students will focus on the basic concepts of astronomy. Topics include: the history of astronomy, light, optics, telescopes, and planets of our solar system, the moon, other planets moons, asteroids, comets and meteors. Topics will also include the concept of time and relativity with exploration of possible exoplanets and galaxies. Star structure, life cycle and classification will also be touched upon. This course incorporates lab investigations, related videos, internet and online database research projects, student presentations, web quests, model construction, and further investigations of the night sky using technology.

## **ADV. SCIENCE/MARINE BIOLOGY (7621) (7622)**

**Grades 11-12 (one semester)**

**Prerequisites: Biology I/1-2 (C or higher recommended in Biology I/1-2)**

Students will study marine plants and animals, ocean ecology, human impact on the ocean environment, career opportunities in ocean science and technology. Students will learn using lectures, investigative laboratory experiments, reading, completing interactive activities with the internet and technology, reports, projects and laboratory work will include animal dissection. Student interested in careers related to Marine Science or Oceanography should consider this course.

## **ADV. SCIENCE/METEOROLOGY (7662)**

**Grades 11-12 (one semester)**

**Prerequisites: ICP or Earth Science, have passed or concurrently taking Algebra 2**

Students will focus on the basic concepts of meteorology. Topics include: Earth-Sun Relationships; Atmospheric Properties; Warming the Earth and the Atmosphere; Humidity, Condensation, and Clouds; Precipitation; Air Pressure and Winds; Atmospheric Circulations; Air Masses, Fronts, and Middle-Latitude Cyclones; Weather Forecasting, Thunderstorms and Tornadoes; Hurricanes; Hurricane tracking, Air Pollution; Global Climate; Climate Change; Light, Color, and Atmospheric Optics, and El Nino La Nina events. Career exploration includes: Meteorology broadcasting, aviation and Meteorologist. This course incorporates lab investigations, related videos, internet and online database research projects, student presentations, web quests, model construction, and further investigations of climate change.



**ADV. SCIENCE/ZOOLOGY (7641) (7642)****Grades 11-12 (one semester)****Prerequisites: Biology I/1-2 & Chemistry I/1-2 or concurrently enrolled in Chemistry I/1-2 (C or higher recommended in Biology I/1-2)**

This course involves a survey study of the animal kingdom from protozoans to mammals. Following the phylogenetic tree of evolution, each animal group will be studied. The major systems will be studied through discussions, computer-assisted learning programs, and specimen dissections. Developmental anatomy exhibited by each group will then be the basis of comparison of niche efficiency, as well as increasing complexities of structures. Students interested in a career in animal science should consider taking this course.

### **PROJECT LEAD THE WAY**

A nationally recognized college preparatory program consisting of a four-year sequence of hands-on, project and problem-based courses which, when combined with traditional mathematics and science courses in high school, introduces students to the scope, rigor and discipline of engineering. The PLTW™ Engineering Curriculum is currently being used by over 1600 schools in 46 states.

**PLTW PRINCIPLES OF BIOMEDICAL SCIENCE 1-2 (7241) (7242)****Grades 9-10-11****Dual Credit (if taking all four PLTW Biomedicine courses) – Ivy Tech****Prerequisites: May dual enroll bio X as freshman, OR Biology (B or higher), teacher recommendation, and dual enroll in Chemistry.****Enrollment in this course is a FULL-YEAR commitment.****If failing Chemistry Semester I – must drop Principles of Biomedical Science Semester II.**

This course provides an introduction to the biomedical sciences through exciting “hands-on” projects and problems. Student work involves the study of human medicine, research processes, and an introduction to bio-informatics. Students investigate the human body systems and various health conditions. A theme through the course is to determine the factors that led to the death of a fictional person. After determining the factors responsible for the death, the students investigate lifestyle choices and medical treatments that might have prolonged the person's life. The course is designed to provide an overview of all the courses in the Biomedical Sciences program and to lay the scientific foundation necessary for student success in the subsequent courses. Students interested in a career in health sciences or forensics should consider this course.

**PLTW HUMAN BODY SYSTEMS 1-2 (7451) (7452)****Weighted****Grades 10-12****Dual Credit (if taking all four PLTW Biomedicine courses) – Ivy Tech****Prerequisite: Principles of Biomedical Science 1-2****Dual enrollment with Medical Intervention 1-2 is possible with teacher recommendation.**

The human body is a complex system requiring care and maintenance. This course will engage students in the study of basic human physiology, especially in relationship to human health. Students will use a variety of monitors to examine body systems (respiratory, circulatory, and nervous) at rest and under stress, and observe the interactions between the various body systems. Student will use LabView® software to design and build systems to monitor body functions. Students interested in a career in health sciences or forensics should consider this course.

**PLTW MEDICAL INTERVENTION 1-2 (7461) (7462)****Weighted****Grades 11-12****Dual Credit (if taking all four PLTW Biomedicine courses) – Ivy Tech****Prerequisite: Human Body Systems 1-2 or Dual enrollment in Human Body Systems 1-2 with teacher recommendation.**

Medical practice includes interventions to support humans in treating disease and maintaining health. Student projects will investigate various medical interventions that extend and improve quality of life, including gene therapy, pharmacology, surgery, prosthetics, rehabilitation, and supportive care. Students will study the design and development of various medical interventions including vascular stents, cochlear implants, and prosthetic limbs. They will review the history of organ transplants and gene therapy, and read current scientific literature to be aware of cutting edge developments. Using 3-D imaging software and current scientific research, students will design and build a model of a therapeutic protein. Students interested in a career in health sciences or forensics should consider this course.

**PLTW BIOMEDICAL INNOVATIONS 1-2 (7251) (7252)****Weighted****Grades 11-12****Dual Credit (if taking all four PLTW Biomedicine courses) – Ivy Tech (3 credits for all four years)****Prerequisite: Medical Intervention 1-2 or Dual enrollment in Medical Intervention 1-2 with teacher recommendation.**

This capstone course gives student teams the opportunity to work with a mentor, identify a science research topic, conduct research, write a scientific paper, and defend team conclusions and recommendations to a panel of outside reviewers. This course may be combined with the capstone course from the pre-engineering pathway, allowing students from both pathways to work together to engineer a product that could impact healthcare.

While the coursework is intentionally rigorous with an emphasis on scientific principles and medical research, all students will be exposed to key concepts that will transfer to many fields. Students interested in a career in health sciences or forensics should consider this course.

**CHEMISTRY I/1-2 (7401) (7402)****Grades 10-11-12****Prerequisites: Biology I/1-2 & Algebra I/1-2****(C or higher required in both prerequisites)****If passing Chemistry I/1, may not take ICP 2<sup>nd</sup> semester.**

Chemistry I/1-2 is the study of matter and changes it undergoes. Students will study elements, compounds, and mixtures that constitute all matter. This course allows students to synthesize useful models of the structure of matter and the mechanisms of its interactions through laboratory investigations.

Students will learn to make measurements, calculate chemical problems and identify many substances. Students will have opportunities to: (1) gain an understanding of the history of chemistry, (2) explore the uses of chemistry in various careers, (3) consider with chemical questions and problems with practical applications, and (4) learn and practice laboratory safety.

**ADVANCED SCIENCE COLLEGE CREDIT/CHEMISTRY (7431) (7432)****Weighted and Dual Credit from Indiana University (ACP) (5 college credits)****Grades 10-12****Prerequisites: Geometry 1-2(1X-2X) & Biology 1X-2X OR teacher recommendation from general Biology or general Chemistry.**

Advanced Science College Credit/Chemistry (ACP Chemistry) is a course that provides students with the content established by Advanced College Project (ACP). ACP Chemistry will investigate similar topics as Chemistry I/1-2, but will do so with more rigor and depth. Students wishing to take ACP Chemistry must be self-motivated, have the desire to do college-level work, and be willing to commit extracurricular hours that college level classes require. This course provides students with an opportunity to obtain college credit at I.U. and high school credit simultaneously. Students must have a 2.7 cumulative GPA to be eligible to earn the college credit. Students will take the ACP Chemistry exam in the spring of the school year. The cost for this course is \$125 (\$25 per credit hour) which is a savings of several hundred dollars when compared to college pricing. Students who qualify for free/reduced lunch will have the tuition fee waived.

**AP CHEMISTRY (7421) (7422)****Weighted****Grades 10-12****Prerequisites: Chemistry I/1-2 (recommend B or higher)****Enrollment in this course is a FULL-YEAR commitment.**

AP Chemistry is a course that provides students with the content established by the College Board. Topics include: (1) structure of matter – atomic theory & structure, chemical bonding, molecular models, nuclear chemistry (2) states of matter – gases, liquids & solids, solutions (3) reactions – reaction types, stoichiometry, equilibrium, kinetics & thermodynamics. Students wishing to take Chemistry AP must be self-motivated, have the desire to do college-level work, & be willing to commit the extra-curricular time that college level courses require. Additional lab sessions will be required.

Students will take the AP Chemistry Exam in the spring of the school year. Students interested in a health science or animal science or research career should consider this course.

## **INTEGRATED CHEMISTRY PHYSICS 1-2 (7901) (7902)**

**Grades 10-11-12**

**Prerequisites: Algebra I/1-2 (B-/higher 10) or (C-/higher 11/12)**

**Physics concepts are covered 1<sup>st</sup> semester and Chemistry concepts are covered 2<sup>nd</sup> semester.**

Integrated Chemistry/Physics 1-2 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 chemistry & physics.

## **EARTH AND SPACE SCIENCE 1-2 (7301) (7302)**

**Grade 10-11-12**

**Prerequisites: Biology**

Earth and Space Science 1-2 is an introduction to the structure and dynamics of the Earth and its celestial environment.

As these topics are studied, students will explore the impact humans have had on the Earth, its environment, and space. Students will have the opportunity to gain an understanding of the history and development of Earth and space sciences, to explore the uses of knowledge of the Earth and its environment in various careers, and to cope with problems related to personal needs and social issues. Students interested in careers in meteorology, geology, or astronomy should consider taking this course.

## **PHYSICS 1-2 (7501) (7502)**

**Grades 11-12**

**Prerequisites: Geometry (C or higher) AND concurrently enrolled in Alg II or a higher Math course. Recommended to have completed Chemistry with a C or higher. If passing Physics I/1, may not take ICP 1<sup>st</sup> semester.**

Physics I/1-2 is the study of the basic laws of nature and how they explain everyday events. Students learn how to describe the natural world using quantities such as velocity, acceleration, force, energy, momentum, and charge. Wave properties which explain sound, light, and music are also discussed and studied in experiment and demonstration. Students interested in attending college should consider this course.

**High school level instruction and text**

## **ADVANCED SCIENCE COLLEGE CREDIT/PHYSICS I /1-2 (7511) (7512)**

**Grade 12**

**Pre-requisites: Dual Credit Pre-Calculus/Trig**

**Enrollment in this course is a FULL-YEAR commitment.**

**Weighted**

## **Physics I/1X-2X (7541/7542)**

**Grade 11-12**

**Prerequisites: Algebra II/3-4 (C or higher), AND concurrently enrolled in Pre-Calc/Trig**

**Weighted**

These courses are recommended for juniors and seniors who are going to college. Because of pre-requisite requirements, juniors may only take this course as Physics X. Seniors may take this as dual credit (if they have already taken dual credit pre-calculus/trig). Through experimentation and mathematical analysis, students develop skills that enable them to understand the physical environment and use physical laws to calculate or estimate these quantities. Exams for college credit and AP will be required. Students interested in any science or engineering majors should consider this course.

## **AP PHYSICS C (7521) (7522)**

**Weighted**

**Grade 12**

**Prerequisites: Physics I/1-2 (C+ or higher recommended) Calculus taken simultaneously**

**Enrollment in this course is a FULL-YEAR commitment.**

AP Physics, is a course that provides students with the content established by the College Board. AP Physics will build on the concepts studied in Physics I/1-2 to develop a deeper conceptual and mathematical understanding of physics. Students will be expected to understand and interpret physical information verbally, mathematically and graphically. Students wishing to take Physics AP must be self-motivated and have the desire to do college level work. Additional lab sessions may be required.

AP Physics is recommended for seniors who have successfully completed Physics I/1-2 and are planning to go to college and take classes in science, mathematics, architecture, engineering, or medicine. Students are expected to take the AP test in the spring. Students interested in fields of study in engineering, physics, and astronomy should consider this course.

## **SCIENCE RESEARCH, INDEPENDENT STUDY (7801) (7802)**

**Grades 11-12**

**Prerequisite: Approval of Science Department Chair and Lead Research Teacher based on research proposal submitted by student**

The research project course will allow the student to do a self-directed science research project. The student will design, implement, analyze and present an experiment. The project will be original research based on known scientific literature, using the scientific method. The course is for highly motivated students in grades 10-12 interested in pursuing a career in science. Students who participate in Project Seed and /or any fulltime science research program in the summer also qualify.

Approval needed by Science department chair and lead research teacher. **Research and presentation will be required.**

# SOCIAL STUDIES DEPARTMENT

**The mission of the Social Studies Department is to encourage every student to become an informed, participating citizen with a respect for diversity as they observe and react to changes in our local, state, national, and global communities.**

*Courses in order topically*

## **GEOGRAPHY and HISTORY OF THE WORLD 1-2 (8321) (8322) (8301) (8302) Grades 9 or 10 – Full year 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 the global themes include change over time, origin, diffusion, physical systems, cultural landscapes, and spatial distribution/patterns and interaction/relationships.

Students use the knowledge, tools, and skills obtained from this course in order to analyze, evaluate, and make predictions about major global developments. This course is designed to nurture perceptive and responsible citizenship, to encourage and support the development of critical thinking skills and lifelong learning, and to help prepare Indiana students for the 21<sup>st</sup> Century.

## **GEOGRAPHY and HISTORY OF THE WORLD - Excel 1X-2X (8311) (8312) Weighted Grade 9 – Full year course Prerequisites: Invitation Only**

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

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

Students use the knowledge, tools, and skills obtained from this course in order to analyze, evaluate, and make predictions about major global developments. This course is designed to nurture perceptive and responsible citizenship, to encourage and support the development of critical thinking skills and lifelong learning, and to help prepare Indiana students for the 21<sup>st</sup> Century.

## **WORLD HISTORY and CIVILIZATION 1-2 (8221) (8222) (8201) (8202) Grades 9 & 10 – Full year course**

World History and Civilization emphasizes events and developments in the past that greatly affected large numbers of people across broad areas and that significantly influenced peoples and places in subsequent eras. Key events related to people and places as well as transcultural interaction and exchanges are examined in this course. Students are expected to compare and contrast events and developments involving diverse peoples and civilizations in different regions of the world. They will examine examples of continuity and change, universality and particularity, and unity and diversity among various peoples and cultures from the past to the present. Students are also expected to practice 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.

**AP WORLD HISTORY 1-2 (8231) (8232) Weighted**  
**Grades 10-12 – Full year course**  
**Highly Recommended: A or B in English 9X/Adv. Core**

This is a full-year course based upon curriculum set by The College Board for World History. Students will develop a greater understanding of the world's greatest societies and civilizations including ancient empires started by the Egyptians, Chinese, Greeks, Romans, and Mongolians. Modern empires created by the Spanish, French, English, and Americans will also be analyzed, in the second semester of the course. Major themes of history such as the impact of religion, cultural diffusion, and human population growth will also be studied. In general, we will also study the impact of government, society, philosophy, religion, wars, culture, and the interaction of the world's people. Students enrolled should be skilled in writing essays, have an interest in history, and have the ability to analyze issues in a critical manner. Students will take The College Board AP test for college credit.

**UNITED STATES HISTORY 1-2 (8401) (8402)**  
**Grade 11 – Full year course**

United States History is a two-semester course that builds upon concepts developed in previous studies of US 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 Indian and the US. Students are expected to trace and analyze chronological periods and examine the significant themes and concepts in US 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.

**AP UNITED STATES HISTORY 1-2 (8421) (8422) Weighted**  
**Grades 11-12 – Full year course**  
**Highly Recommended: A or B in English 10X/Adv. Core**

This is a full year course based upon curriculum set by The College Board for United States History. Students will focus on the American experience from exploration and discovery through to the present day. Students will analyze primary and secondary resources to examine many topics, including the Puritan ethic, Jacksonian America, sectionalism, and nullification controversies in the period leading up to the Civil War and the Reconstructions era. Twentieth century issues will include imperialism, isolationism, and the global impact of the United States as a "superpower" following the end of World War II. Students enrolled should be skilled in writing essays, have an interest in history, and have the ability to analyze issues in a critical manner. Students will take the College Board AP test for college credit.

**DUAL CREDIT US HIST 1-2 (8431) (8432) Weighted**  
**Grade 11**

**Dual Credit Ivy Tech (6 hours)**

**Prerequisites: (ACT ENG17/R18, PSAT W26/R25, SAT EBRW510, ACCUP SS80/R76)**

This is a full-year course based upon curriculum set by Ivy Tech for United States History. Students will focus on the American experience from exploration and discovery through to the present day. Students will analyze primary and secondary resources to examine many topics, including the Puritan ethic, Jacksonian America, sectionalism, and nullification controversies in the period leading up to the Civil War and the Reconstructions era. Twentieth century issues will include imperialism, isolationism, and the global impact of the United States as a "superpower" following the end of World War II. This course is recommended for college-bound students who want to prepare for the rigors of the higher education classroom. Students enrolled should be skilled in writing essays, have an interest in history, and have the ability to analyze issues in a critical manner. Students interested in this course may be pursuing a professional career in which a college degree is required. This course meets requirements for Ivy Tech courses HIST101: Survey of American History 1, 3 credit hours; and HIST102: Survey of American History II, 3 credit hours.

**UNITED STATES HISTORY 1-2 – INTERDISCIPLINARY (8411) (8412)**

**Grade 11 – Full year course**

**Dual Credit – Ivy Tech (ACT ENG17/R18, PSAT W26/R25, SAT EBRW510, ACCUP SS80/R76)**

United States History I-2 is a full-year course that consists of the study of the colonization of the U.S. through to the present day, with focus on major events and trends of the Twentieth Century. This course is unique because it is taught thematically with connections to themes such as Reforms, Imperialism and War, and to demonstrate the time-specific importance of events, as well as their current relevance. This course fulfills the state required credit for US History 1-2. This course is taught as a block course in conjunction with Contemporary Literature and Advanced Composition 1 (English Department). This course is recommended for college-bound students who want to prepare for the rigors of the higher education classroom. Students enrolled should be skilled in writing essays, have an interest in history, and have the ability to analyze issues in a critical manner.

## **UNITED STATES GOVERNMENT (8701) (8702)**

### **Grade 12 – One semester 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, as well as the rights and responsibilities of citizens and how these are part of local, state, and national government. Students will examine how the United States Constitution protects rights and provides the structure and functions of various levels of government. How the United States interacts with other nations and the government's role in world affairs will be included. 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.

## **AP UNITED STATES GOVERNMENT (8721) (8722) Weighted**

### **Grade 12 – One semester course**

#### **Highly Recommended: A or B in English 11X/Adv. Core**

This rigorous course is based upon curriculum set by The College Board for United States Government. AP US 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, as well as 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. Students 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. Students enrolled should be skilled in writing essays, have an interest in government, and the ability to analyze issues in a critical manner. Students will take the College Board AP test for college credit.

## **DUAL CREDIT UNITED STATES GOVERNMENT (8441) (8442) Weighted**

### **Grade 12 – One semester course**

#### **Dual Credit Ivy Tech (3 hours)**

#### **Prerequisites: (ACT ENG17/R18, PSAT W26/R25, SAT EBRW510, ACCUP SS80/R76)**

This college-level United States Government course will provide 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, as well as 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. Students 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 meets requirements for Ivy Tech course POLS101: Introduction to American Government and Politics.

## **ACP DUAL CREDIT US GOVERNMENT (8461) (8462) Weighted**

### **Grade 12 – One semester course**

#### **Dual Credit with Indiana University**

#### **Prerequisites: GPA of 2.7**

This college-level United States Government course will provide 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, as well as 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. Students 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. Students who take this course must apply through the IU Advanced College Project, be accepted and register through the Indiana University registration process. Tuition and fees may apply.

## **ECONOMICS (8711) (8712) [QR]**

### **Grade 12 – One semester course**

Economics examines the allocation of resources and their uses for satisfying human needs and wants. The course analyzes economic reasoning and behavior 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.

**DUAL CREDIT ECONOMICS (8451) (8452) Weighted****Grade 12 – One semester course****Dual Credit Ivy Tech (3 hours)****Prerequisites: (ACT ENG17/R18/M18, PSAT W26/R25/M24.5, SAT EBRW510/M500, ACCUP SS80/R76/M40)**

In this course, students will survey microeconomics, macroeconomics, international economics, comparative economic systems, historical development of economic thought, and their application to current economic problems. Students interested in this course may be considering a professional career in business, management, or finance. This course meets requirements for Ivy Tech course ECON101: Economic Fundamentals.

**AP MACROECONOMICS (8731) (8732) Weighted [QR]****Grade 12 – One semester course****Highly Recommended: A or B in English 11X/Adv. Core AND Successful completion of Algebra II**

This rigorous course is based upon curriculum set by The College Board for Macroeconomics. This course places particular emphasis on the study of national income and price-level determinations and also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Topics include: basic economics concepts, measurement of economic performance, national income and price determination, economic growth, and international finance, exchange rates, and balance of payments. For this rigorous course, students should be skilled in analysis, reading comprehension, and mathematics. Students will take the College Board AP test for college credit. Students will take the College Board AP test for college credit.

## **SOCIAL STUDIES DEPARTMENT ELECTIVES**

**ETHNIC STUDIES (8511) (8512)****Grades 9-10 – Semester course**

Ethnic Studies provides opportunities to broaden students' perspectives concerning lifestyles and cultural patterns of ethnic groups in the United States. This course will focus on 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 will also include an analysis of the political impact of ethnic diversity in the United States. This course is open only to students in grades 9 and 10.

**ETHNIC STUDIES (8551) (8552)****GRADES 11-12 – Semester Course**

Ethnic Studies provides opportunities to broaden students' perspectives concerning lifestyles and cultural patterns of ethnic groups in the United States. This course will focus on 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 will also include an analysis of the political impact of ethnic diversity in the United States. This course is open only to students in grades 11 and 12.

**AFRICAN STUDIES (8541) (8542)****GRADES 10-12 – Semester Course**

African Studies helps student understand and appreciate the diverse peoples, cultures, and economic systems of the African continent. The course examines the early kingdoms and cities of Africa, early trade routes with Europe and the east, the influence of African culture in the Americas, European colonization of Africa, African influences in the United States, and the establishment of independent nations in Africa, and contemporary traditions, literature, art, and other aspects of culture. Students interested in this course may be pursuing a career in which they will work with diverse groups of people. This course is open only to students in grades 11 and 12.

**SOCIOLOGY (8621) (8622)****Grades 10-12 – Semester 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 describe the development of sociology as a social science and identify methods of research. Through research methods such as scientific inquiry students 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 also analyze the role of individuals in the community and social problems in today's world.



**PSYCHOLOGY (8641) (8642)**  
**Grades 11-12 – One semester course**  
**Core 40**

Psychology is the scientific study of mental processes and behavior. The course is divided into eight content areas. History and 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. Psychology Thinking explores how to think like a psychologist and expand critical thinking skills needed in the day-to-day life of a psychologist.

**AP PSYCHOLOGY 1-2 (8631) (8632) Weighted**  
**Grades 11-12 – Full year course**  
**Highly Recommended: A or B in English 10X/Adv. Core**

This is a full-year course based upon curriculum set by The College Board for Psychology. Psychology is the scientific study of mental processes and behavior. The course is divided into six content areas and uses the scientific methods to explore research methods and ethical consideration. Developmental psychology takes a lifespan approach to physical, cognitive, language, emotional, social, and moral development. Cognitive aspects of the course focus on learning, memory, information processing, and language. Personality, assessment, and mental health topics include psychological disorders, treatment, personality, and assessment. Socio-cultural dimensions of behavior deal with topics such as conformity, obedience, perceptions, attitudes, and influence of the group on the individual. The biological basis focuses on the way the brain and nervous system function. This course is recommended for college-bound students who want to prepare for the rigors of the higher education classroom. Students enrolled should be skilled in writing, reading comprehension, and the ability to analyze issues in a critical manner. Students will take the College Board AP test for college credit.

**TOPICS in SOCIAL SCIENCE: BASICS of PHILOSOPHY (8651) (8652) Weighted**  
**Grades 11-12 – Full year course**

Philosophy is an academic discipline that exercises reason and logic in an attempt to understand reality and answer fundamental questions about knowledge, life, morality and human nature. Students will examine the origins of philosophy, the keys to critical thinking and argumentation, the branches of philosophy, consciousness, identity, freedom, determinism, and the nature of reality. For this rigorous course, students should be open-minded and skilled in reading comprehension and analysis.

**INDIANA STUDIES (8561) (8562)**  
**GRADES 11-12 – Semester 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 students will examine 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.

**GLOBAL ECONOMICS (8751) (8752) [QR]**  
**Grade 11 – One semester course**

This course is specifically for students enrolled in the Finance Academy through Walker Career Center. This course meets state graduation requirement for Economics. Students interested in the course may be pursuing a career in finance. Global Economics is a business course that provides students with an understanding of their role as consumers and producers in domestic and global economics. This course enables students to understand how the economic system operates while comprehending their role in that system. Students deal with public policy, international economics, microeconomics, and macroeconomics in comparing economic systems and using selected economic measures. Instructional strategies may include development of a school-based enterprise, case studies, field trips, guest speakers, job shadowing, simulations, internet research, and business experiences. This course is only open to those students in Finance Academy.

**DUAL CREDIT UNITED STATES GOVERNMENT (8801) Weighted**  
**Grade 12 – One semester course (paired with International Relations)**  
**Dual Credit Ivy Tech (3 hours)**  
**Prerequisites: (ACT ENG17/R18, PSAT W26/R25, SAT EBRW510, ACCUP SS80/R76)**

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, as well as 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. Students will be able to explain the role of individuals and groups in government, political, and civic activities and the need for civic and political engagement of citizens in the United States. This course meets requirements for Ivy Tech course POLS101: Introduction to American Government and Politics.

**INTERNATIONAL RELATIONS (8802)**  
**Grades 11-12 – One semester course**  
**Prerequisite: US Government – Advanced Social Studies College Credit (Ivy Tech) (8801)**

This course takes an in-depth look at the various factors that play a role in state-to-state relations. Students will be asked to understand, analyze and predict state behavior based on government, economic, and social systems, as well as historical precedent and military capabilities. The course will also introduce students to the most prevalent IR theories, and students will apply these theories to real world events to gauge their comprehension level. Students will be exposed to both factual and theoretical aspects of IR analysis. The course will also examine the negotiation process, and students will take part in negotiating role play. Students will be expected to read case studies that will increase their understanding of negotiations and the art of diplomacy. The course is designed so that students are active participants in the learning process. Students are expected to take part in class discussion and debates regarding current international issues. Students interested in this course need to be enrolled for both semesters of one school year with the same teacher for course 8801 and 8802.

# WORLD LANGUAGE DEPARTMENT

The World Language Department's mission is to equip students linguistically and culturally to communicate successfully in a pluralistic American society and abroad. The goal is to develop student proficiency in the targeted language through an articulated sequence of instruction by emphasizing the four skills of speaking, listening, reading, and writing, by incorporating useful technology into instruction and by supporting Common Core initiatives.

## **ALL LANGUAGE COURSES MAY BE USED TO MEET ACADEMIC HONORS DIPLOMA REQUIREMENTS**

The World Language Department offers German, Japanese, Latin, and Spanish. There is an Advanced Placement course in the Spanish, Japanese, and Latin languages that are offered as a fifth-level course in Spanish and a fourth-level course in Japanese and Latin. A student who transfers to the program is placed by the credits he/she earned. Those reared in homes where the language is spoken may test out of the beginning levels but do not receive credits for them.

All courses are electives and sequential in nature; i.e., a student must earn a passing grade in one semester of a level in order to continue in the next semester. Courses above the second level are weighted. Although the student's grade point average seems to be the best predictor of success in language study, it is strongly recommended that the student also have passing grades in English to enroll in a world language course for credit.

### **ETYMOLOGY (3881) (3882)**

**Grades 10-11-12 (one semester)**

**This course can be taken 1<sup>st</sup> or 2<sup>nd</sup> semester.**

Etymology provides instruction in the derivation of English words and word families from their Latin and Greek roots. It also provides a study of the connotative and denotative meaning of words in a variety of contexts. Students study the origins and a meaning of English words, including roots, prefixes, suffixes, and reasons for language change. This course introduces students to tools and resources for etymological study and encourages them to be curious about the English language.

### **GERMAN I/1-2 (4591) (4592)**

**Grades 9-10-11-12**

This course familiarizes the student with language that mirrors teenagers' everyday lives in German-speaking countries. Through exposure to numerous real-life situations, the student will better be able to relate to his own surroundings and make comparisons between the cultures of German-speaking countries and his/her own. The development of all the language skills: speaking, listening, reading, and writing are the focus.

### **GERMAN II/3-4 (4601) (4602)**

**Grades 10-11-12**

This course expands the communicative skills already learned. The student will learn to interact with others about various aspects of life. Cultural understanding will continue to increase through a variety of readings and activities.

### **GERMAN III/5-6 (4621) (4622) Weighted**

**Grades 10-11-12**

This course continues to expand the communicative skills. It also introduces early German history, as well as what one does today to preserve things for future generations. The German-speaking countries are the focus and many topics of interest to students will be learned: hobbies, sports, foods, shopping, etc.

### **GERMAN IV/7-8 (4631) (4632) Weighted**

**Grades 11-12**

**Grade of B- or higher in German III or teacher recommendation required.**

This course introduces the student to more extensive culturally-oriented reading selections and literary pieces, enabling the student to read for content rather than word-for-word translation. Emphasis is placed on comprehension skills and verbalizing; understanding is developed through the use of spoken German. Students become familiar with interpreting concepts and thinking in the language in order to formulate viewpoints with accuracy. This course also introduces the student to a multimedia form of study through news/articles, magazine articles, the Internet, and news media. Students learn how to function holistically, integrating the skills of listening, speaking, writing, reading, and thinking.

As a result of this course, students gain a deeper understanding of German society and its difficulties and continue to sharpen their language-processing skills.

## **JAPANESE I/1-2 (4751) (4752)**

**Grades 9-10-11-12**

Japanese I/1-2 will introduce students to pronunciation, intonation patterns, and basic grammatical structures in order to develop reading, writing, listening, and speaking skills. Students will learn to read and write the entire Hiragana and Katakana syllabaries as well as about 100 Kanji characters. As an integral component of language study, both traditional and modern Japanese culture will be a big part of daily activities. The specialized cultural study week will focus on Japanese Samurai.

## **JAPANESE II/3-4 (4761) (4762)**

**Grades 10-11-12**

**Prerequisite: Grade of B- or higher in Japanese I**

Japanese II/3-4 continues introducing basic grammatical structures and additional vocabulary to enable students to develop listening, speaking, reading, and writing skills further. In this course students will learn 100 additional Kanji characters and will begin to translate authentic cultural materials. Japanese keyboarding skills will be introduced and conversation skills emphasized through activities conducted mainly in Japanese. The specialized cultural study week will focus on the Japanese Ninja.

## **JAPANESE III/5-6 (4771) (4772) Weighted**

**Grades 11-12**

**Prerequisite: Grade of B- or higher in Japanese II**

**Dual Credit – Ball State – Must have GPA over 3.0 / 8 Credit Hours Available**

This course requires the successful completion of Japanese II. The class is weighted, moves faster than previous levels, and expectations are higher, so a grade of C or lower in Japanese II requires teacher recommendation to continue. Japanese III/5-6 extends skills acquired in the first two years of Japanese study concentrating on syntax, vocabulary, and intermediate grammar, reading, and writing skills. Students will also learn an additional 100 Kanji characters. Translation of authentic materials will continue, and students will show mastery of the material various ways, including plays, presentations, and video projects. Class will be conducted primarily in Japanese and students will be expected to speak mostly Japanese. The specialized cultural study week will focus on the Japanese Geisha.

## **JAPANESE IV/7-8 (4781) (4782) Weighted**

**Grades 11-12**

**Prerequisite: Grade of B- or higher in Japanese III**

**Dual Credit – Ball State – Must have GPA over 3.0 / 3 Credit Hours Available**

Japanese IV/7-8 extends skills acquired in the first three years of Japanese study concentrating on syntax, vocabulary, and complex grammar, reading, and writing skills. Students will also learn an additional 100 Kanji characters. Communication skills will begin to focus on the informal, spoken style. Translation and group video projects are an important part of this course. Students will also begin to prepare for college placement exams. The specialized cultural study week will focus on the Japanese Yakuza.

## **AP JAPANESE (4791) (4792) Weighted**

**Grades 11-12**

**Prerequisite: Grade of B- or higher in Japanese III or teacher recommendation required.**

AP Japanese IV is a course which follows the College Board course guidelines for AP Japanese and prepares students to be successful on the AP Japanese exam. It extends skills acquired in the first three years of Japanese study concentrating on syntax, vocabulary, complex grammar, reading, and writing skills. Students will also learn many additional Kanji characters. Communication skills will begin to focus on the informal spoken style, emphasizing the use of Japanese for active communication. This course's objectives are: the development of advanced listening comprehension, reading without the use of a dictionary, expanded conversational skills, fluent and accurate written expression, and strong command of vocabulary and structure of the Japanese language. Translation and group video projects are also an important component of this course, and Japanese keyboarding skills will be emphasized. Students will also begin to prepare for college placement exams. The specialized culture study week will focus on the Japanese Yakuza. This course will be conducted in Japanese.

## **LATIN I/1-2 (4201) (4202)**

**Grades 9-10-11-12**

The students in this beginning Latin course are exposed to most aspects of Roman culture that influenced Western civilization, language structure, vocabulary, art, architecture, customs, morals, and government. They will learn basic pronunciation, sentence formation, and vocabulary of the Latin language. These skills are implemented to learn more about the Roman culture through reading and the study of family life, sports, and biographical information.

**LATIN II/3-4 (4301) (4302)****Grades 10-11-12**

The basic language skills of the first year are reviewed and additional constructions are learned. The major emphasis now is on application of the language in reading stories of mythology and Roman heroes, along with an expansion of cultural offerings. The student will now begin to read and discuss the literature of famous Romans. Students will begin to study some mythology in English as well.

**LATIN III/5-6 (4311) (4312) Weighted****Grades 11-12**

With grammatical study previously learned, the advanced Latin student can enjoy the true essence of Rome and its literature. Selections may be taken from the works of Ovid, Caesar, Cicero, Pliny, and Horace. The anthology of literature of the course ranges from satire, comedy, and whimsical love poems to deep philosophical thought. Through the study of this literature, insight into the Romans as people can be attained. Also, the student will expand his/her knowledge of Roman culture, lifestyles, mythology, and history.

**AP LATIN IV (4321) (4322) Weighted****Grade 12**

Students spend the majority of this course translating and analyzing Vergil's *Aeneid* and Julius Caesar's *De Bello Gallico*. Students will study the background of Vergil and Caesar, the political climate during their lives, and their motivations for writing these works. Students will be required to translate AP-level passages as literally as possible and analyze the Latin literary devices within these passages. Also, sight-translation is heavily practiced in this course. In accordance with the AP exam, students will be required to write AP-level essays analyzing passages of Latin.

**SPANISH I/1-2 (4391) (4392)****Grades 9-10-11-12**

This course introduces the Spanish language and culture to secondary students. Emphasis is on holistic language development, which focuses on the skills of listening, speaking, reading, and writing integrated with Hispanic culture. An emphasis is placed on vocabulary acquisition and classroom participation. Students will analyze and evaluate grammatical concepts and structures to use in Spanish conversation, writing, and reading.

Through this course, students gain an understanding of Hispanic cultures in relation to their own culture. As a result, they acquire a positive attitude toward language learning and develop social skills appropriate to the Hispanic world. It is highly recommended that students commit to daily practice in the target language and maintain a C or better in English in order to take this course.

**SPANISH II/3-4 (4401) (4402)****Grades 9-10-11-12**

It is recommended that Spanish II/3-4 be taken immediately following the completion of Spanish I/1-2 with a C average or above. This course applies basic material from Spanish I/1-2 and introduces new vocabulary, grammar, and culture material. Emphasis is on building more varied communication skills. Students will express their thoughts in writing and speaking by applying previously learned material in addition to the new skill sets.

A holistic approach is used to integrate listening, speaking, reading, and writing as appropriate to the second year level. The material is presented in the target language, and in order to prepare for continued language learning, it is expected that students will increase their daily practice and conversational skills. Students become more familiar with the people and culture of the Spanish-speaking world, thus fostering a greater understanding and appreciation of the world in which we live.

**SPANISH III/5-6 (4421) (4422) Weighted****Grades 10-11-12**

This course requires the successful completion of Spanish II/3-4 or its equivalent. Any student with lower than a B- in Spanish II requires teacher recommendation to continue. Students continue to learn about Spanish-speaking countries, people, and customs as well as the increasing influence of Hispanics in the U.S.

Students learn how to use more advanced functions of grammar to express themselves within a variety of situations. They will express their thoughts in writing and speaking by applying previously learned material. Also, students will read from selected sources to improve reading comprehension. As a result of this course, students will gain an understanding of the Hispanic way of life. Upon completion, the students will learn to apply and analyze previously gained knowledge to better understand lessons presented in the target language.

**SPANISH IV/7-8 (4431) (4432) Weighted****Grades 11-12**

**Dual Credit – Ivy Tech – Must have GPA over 2.6 PSAT Minimum W:26 R:25; ACT Minimum ENG:17, R:18; Accuplacer Minimum SS:80, R:76; SAT Minimum EBRW:510 / 8 Credit hours available**

Spanish IV/7-8 introduces students to a broad survey of literature from Latin America and Spain through selected readings from major authors. Students also have the opportunity to study a variety of contemporary topics in magazines, newspapers, Internet websites, and Spanish news programs. Students will be given varied experiences in refining their communication skills by listening, speaking, reading, and writing activities.

Included in this course is an in-depth study of the geography, history, literature, and customs of Spanish-speaking countries. Students also review grammar from previous levels as well as learn the finer points of Spanish grammar. Thematic vocabulary units that teach household items, personal characteristics, nature, profession, clothing, pastimes, education, and sports are also taught. Students are required to do one oral and one visual project per semester. Oral projects are skits or dialogues over topics of interest to teenagers, while visual projects center on holidays, travel, or Hispanic customs. This class is taught entirely in Spanish and students are expected to speak only Spanish in class. A grade of B- or above is required in Level III in order to enroll in this course.

**AP SPANISH V (4441) (4442) Weighted****Grade 12**

This course requires students to write compositions in class, produce AP quality oral work, read prose and poetry selections, study and use more complex syntax, perform listening comprehension exercises, practice extensive conversation, and review and expand their vocabulary. The students will also have the opportunity to sharpen their test-taking skills by taking several practice AP exams and college-placement exams. Through broadening their active (speaking) and passive (reading) vocabulary, increasing their fluency in language, and deepening their knowledge of the Spanish language, students will prepare themselves not only for the AP language exam, but also for continuing their study of the Spanish language, history, culture, and literature at the college level and beyond.

Each semester the students must write themed compositions and create impromptu dialogues over current topics. There is a major project each semester also: a traditional medicine presentation and a cultural comparison of popular holidays.

This class is taught entirely in Spanish and students are required to communicate only in the target language. Oral/aural skills are a major portion of the grade for students' in AP Spanish. No student who earns below a B- in Spanish IV will be allowed to take AP Spanish, unless special permission is granted.