WARREN CENTRAL
2013 - 2014
Course of Study Planning Guide

Course Descriptions

Warren Central High School
9500 East 16th Street
Indianapolis, IN 46229
www.warren.k12.in.us
(317) 532-6200
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Course of Study Planning Guide

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| Performing Arts      | Mr. John Hilmer      | 532-6271 | jhilmer@warren.k12.in.us  |
| Physical Ed.         | Mrs. Candy Handy-Ogle| 869-4670 | chandy@warren.k12.in.us   |
| Science              | Ms. Beth Campbell    | 532-6236 | ecampbel@warren.k12.in.us |
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| Special Services     | Mrs. Jill Riggs      | 532-6401 | jriggs@warren.k12.in.us   |
| World Language       | Mrs. Beth Wolff      | 532-6323 | bwolff@warren.k12.in.us   |
The Mission of Warren Central High School and Walker Career Center is to prepare all students to become responsible citizens and lifelong learners in a diverse society.

WARREN CENTRAL HIGH SCHOOL

Dear Students,

Warren Central is a comprehensive high school with a curriculum designed to properly prepare you for the future. We are about providing educational opportunities that are both rigorous and relevant as set forth by our expectations and the expectations of the State of Indiana. In this academic journey, it is most important that you ask questions and seek advice. This Course of Study Guide is a most effective map for your success. It is an excellent resource for you as you prepare for your lifetime goals and ambitions.

Rich Shepler, Principal
Warren Central High School

WALKER CAREER CENTER

Dear Students,

The faculty and staff of the Walker Career Center are committed to providing you with the knowledge and skills necessary to compete successfully in a global and technical world. The career center focuses on business technology, family and consumer science, engineering technology education and specialized career and technical education programs that are taught in a facility with state of the art equipment and the latest technology. The variety of courses and programs offer everyone the opportunity to acquire knowledge, skills, dual credit and certifications that will serve them for a lifetime.

As you look through this booklet, I urge you to look over the many opportunities available at the Walker Career Center. Good decisions made now will pay dividends for a lifetime.

Lou Anne Schwenn, 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.
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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.

**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.

**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, 19 weeks a semester, 38 weeks a year to earn one (1) credit per semester.

**Grading Scale**

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Percentage Grade</th>
<th>4 Point Scale</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>93-100</td>
<td>4</td>
</tr>
<tr>
<td>A-</td>
<td>90-92</td>
<td>3.67</td>
</tr>
<tr>
<td>B+</td>
<td>87-89</td>
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<tr>
<td>B</td>
<td>83-86</td>
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<tr>
<td>C+</td>
<td>77-79</td>
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<td>C</td>
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<td>1.67</td>
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<tr>
<td>D+</td>
<td>67-69</td>
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<tr>
<td>D</td>
<td>63-66</td>
<td>1.00</td>
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<tr>
<td>D-</td>
<td>60-62</td>
<td>.67</td>
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<tr>
<td>F</td>
<td>Below 59</td>
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</tbody>
</table>

**Academic Letters**

Warren Central High School would like to celebrate student achievement by awarding eligible persons academic letters and/or chevrons. This is Warren Central high School’s top recognition for outstanding academic accomplishments.

The first academic award a student receives is the “academic letter.” Second and third awards will be the chevron. At the beginning of the first semester of the school year, all students in:

- Grade 10 who have a minimum of 12 credits
- Grade 11 who have a minimum of 24 credits
- Grade 12 who have a minimum of 36 credits **AND**
  1) Have completed two full semesters at Warren Central
  2) Have a cumulative Grade Point Average of 3.33 or higher and
  3) Have not received any F’s

There is **not** an application process. Students meeting the above criteria will automatically receive this award. Students receiving these awards will be eligible to purchase a jacket or plaque, if they so choose.
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 (ECA) can be met in three ways:

1. **Pass the English 10 and Algebra I 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.

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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).

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**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 test may be completed by using the paper registration form or by the online registration service at [http://www.collegeboard.com](http://www.collegeboard.com) for the SAT or [http://www.act.org](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.
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 a 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.

College Athletic Eligibility – NCAA Division I, II, and III
Divisions I and II
Student must:
- graduate from high school
- successfully complete all core courses
- have a minimum 2.0 GPA in core courses (starting with the class of 2016, Division I will require a 2.3 GPA)
- have a minimum qualifying ACT and SAT score
- request final amateurism certification from the NCAA Eligibility Center
- complete 32 semesters of Core Courses in required fields (see below)

<table>
<thead>
<tr>
<th>Subject</th>
<th>Div. I Requirements</th>
<th>Div. II Requirements</th>
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</thead>
<tbody>
<tr>
<td>English</td>
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</tr>
<tr>
<td>Math</td>
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<td>4</td>
</tr>
<tr>
<td>Science</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Additional Eng. Math. Sci.</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>Social Studies</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Additional Core Courses</td>
<td>8</td>
<td>8</td>
</tr>
</tbody>
</table>

www.CoreCourseGPA.com will calculate the Core Course GPA needed for eligibility.

A Core Course is any course at the high school level that has been reviewed and approved by the NCAA as a course that meets their academic standards. Not all graduation requirements or Core 40 classes are approved by the NCAA.

Division I
Eligibility is based on a sliding scale using the Core Course GPA and test scores. The higher a student’s GPA, the lower the test score needs to be to qualify and vice versa. Visit the Eligibility Center website to view the sliding scale indexes. www.eligibilitycenter.org.
Be aware that there are two indexes, one if for students graduating before 2016 and the other is for 2016 graduates and beyond.

Division II
Students must meet the Core Course GPA of a 2.0 and have at least an ACT sum score of 68 or a SAT score of 820.

Division III
Student must meet the admission requirements of the specific college or university.

Meeting the NCAA academic eligibility requirements does not guarantee admission into the college or university. Specific eligibility questions can be answered by the Warren Central Athletic Department.
<table>
<thead>
<tr>
<th>High School Program</th>
<th>H.S Course #</th>
<th>College Course Title</th>
<th>Cost</th>
<th>College Credits</th>
<th>Postsecondary Institution</th>
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<tbody>
<tr>
<td>Advanced English College Credit - Comp 2 Lit</td>
<td>3422</td>
<td>English Composition</td>
<td>$75</td>
<td>3</td>
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<tr>
<td>Advanced Math College Credit - Algebra</td>
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<td>College Algebra</td>
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<td>Ivy Tech</td>
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<td>Calculus</td>
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<td>3</td>
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<td>Advanced Science College Credit</td>
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<td>General Chemistry</td>
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<td>Automotive Services Tech I</td>
<td>5761/5762</td>
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<td>Exterior Trim</td>
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<td>Construction Technology I or II (first year of house)</td>
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<td>Construction Materials</td>
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<td>Construction Technology I or II (second year of house)</td>
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<td>Interior Trim</td>
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<td>Computer Integrated Manufacturing (PLTW)</td>
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<td>Advanced Culinary Arts Careers</td>
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<td>Advanced Culinary Arts Careers</td>
<td>0951/0952</td>
<td>Nutrition</td>
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<td>Computers in Production and Design</td>
<td>5301/5302</td>
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<td>Personal Finance</td>
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<td>Health Science Education II: Special Topics</td>
<td>2972</td>
<td>CNA Preparation</td>
<td>$0</td>
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**Savings - Money & Time**
**Evidence of rigor to meet college admissions requirements**
**Fulfills Academic and Technical Honors diploma requirements**
**High school credit**
**Jump start on college credit**

**PARTNERING UNIVERSITIES**
**Ivy Tech Community College**
**Vincennes University**
**Indiana University**
**Purdue University**
**University of Indianapolis**
**University of Southern Indiana**
**IUPUI Fort Wayne**

**Dual Credit 2013-2014**

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Description</th>
<th>Cost</th>
<th>Units</th>
<th>College</th>
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<td>Introduction to Engineering (PLTW)</td>
<td>5261/5262</td>
<td>Graphic Communications for</td>
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<td>Medical Terminology</td>
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<td>Principles of Marketing</td>
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<td>$0</td>
<td>3</td>
<td>Ivy Tech Comm College</td>
</tr>
<tr>
<td>Precision Machining II</td>
<td>5831/5832</td>
<td>Milling Processes I</td>
<td>$0</td>
<td>3</td>
<td>Ivy Tech Comm College</td>
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<tr>
<td>Precision Machining II</td>
<td>5831/5832</td>
<td>Turning Processes I</td>
<td>$0</td>
<td>3</td>
<td>Ivy Tech Comm College</td>
</tr>
<tr>
<td>Principles of Engineering (PLTW)</td>
<td>5271/5272</td>
<td>Materials &amp; Processes for</td>
<td>$0</td>
<td>3</td>
<td>Ivy Tech Comm College</td>
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<tr>
<td>Web Design, Advanced</td>
<td>2262</td>
<td>Web Design I</td>
<td>$0</td>
<td>3</td>
<td>University of Southern Indiana</td>
</tr>
<tr>
<td>Welding Technology I</td>
<td>5881/5882</td>
<td>Introductory Welding</td>
<td>$0</td>
<td>3</td>
<td>Ivy Tech Comm College</td>
</tr>
<tr>
<td>Welding Technology I</td>
<td>5881/5882</td>
<td>Shielded Metal Arc Welding</td>
<td>$0</td>
<td>3</td>
<td>Ivy Tech Comm College</td>
</tr>
<tr>
<td>Welding Technology I</td>
<td>5881/5882</td>
<td>Shielded Metal Arc Welding II</td>
<td>$0</td>
<td>3</td>
<td>Ivy Tech Comm College</td>
</tr>
<tr>
<td>Welding Technology II</td>
<td>5891/5892</td>
<td>Gas Metal Arc (MIG) Welding</td>
<td>$0</td>
<td>3</td>
<td>Ivy Tech Comm College</td>
</tr>
<tr>
<td>Welding Technology II</td>
<td>5891/5892</td>
<td>Gas Tungsten (TIG) Welding</td>
<td>$0</td>
<td>3</td>
<td>Ivy Tech Comm College</td>
</tr>
</tbody>
</table>

**Core Transfer Library**

To enable (a student) to transfer college credits, Indiana has developed the Core Transfer Library (CTL) - a list of courses that will transfer among all Indiana public college and university campuses, assuming adequate grades. All Core Transfer Library courses will meet the general education or free elective requirements of undergraduate degree programs, and a significant majority of the CTL courses will also count as one-on-one equivalents to courses taught at (the student's) new campus. (TransferIN.net)

**Dual Credit**

Dual Credit is the term given to courses in which high school students have the opportunity to earn both high school and college credits simultaneously. Dual credit courses are taught by high school faculty at the high school. Dual credit is offered by both state and independent (private, regionally accredited) colleges and universities. (Indiana DOE)

**Student Benefits**

**Partnering Universities**

**Ivy Tech Community College**
**Vincennes University**
**Indiana University**
**Purdue University**
**University of Indianapolis**
**University of Southern Indiana**
**IUPUI Fort Wayne**
Schools may have additional local graduation requirements that apply to all students

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

### Course and Credit Requirements

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>English/Language Arts</strong></td>
<td>8 credits</td>
<td>Including a balance of literature, composition and speech.</td>
</tr>
</tbody>
</table>
| **Mathematics**         | 6 credits | 2 credits: Algebra I  
2 credits: Geometry  
2 credits: Algebra II  
Or complete Integrated Math I, II, and III for 6 credits.  
All students must complete a math or physics course in the junior or senior year. |
| **Science**             | 6 credits | 2 credits: Biology I  
2 credits: Chemistry I or Physics I or Integrated Chemistry-Physics  
2 credits: any Core 40 science course |
| **Social Studies**      | 6 credits | 2 credits: U.S. History  
1 credit: U.S. Government  
1 credit: Economics  
2 credits: World History/Civilization or Geography/History of the World |
| **Directed Electives**  | 5 credits | World Languages  
Fine Arts  
Career-Technical |
| **Physical Education**  | 2 credits | |
| **Health and Wellness** | 1 credit | |
| **Electives* (Career Academic Sequence Recommended)** | 6 credits | |
| **Total State Credits Required** | 40 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. Complete AP courses (4 credits) and corresponding AP exams
  - B. Complete IB courses (4 credits) and corresponding IB exams
  - C. Earn a combined score of 1200 or higher on the SAT critical reading and mathematics
  - D. Score a 26 or higher composite on the ACT
  - E. Complete dual high school/college credit courses from an accredited postsecondary institution (6 transferable college credits)
  - F. Complete a combination of an AP course (2 credits and corresponding exam) or an IB Standard Level course (2 credits and corresponding exam) and dual high school/college credit course(s) from an accredited postsecondary institution (3 transferable college credits)

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

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

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

---

### Course and Credit Requirements

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

40 Total State Credits Required

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### Core 40 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 transcripted college credits in dual credit courses from priority course list
  C. Earn two of the following:
     1. A minimum of 3 verifiable transcripted college credits from the priority course list,
     2. 2 credits in AP courses and corresponding AP exams,
     3. 2 credits in IB standard level courses and corresponding IB exams.
  D. Earn a combined score of 1750 or higher on the SAT critical reading, mathematics and writing sections and a minimum score of 530 on each
  E. Earn an ACT composite score of 26 or higher and complete written section
  F. Earn 4 credits in IB courses and take corresponding

---

### Core 40 with Technical Honors (minimum 47 credits)

For the **Core 40 with Technical Honors** diploma, students must:
- Complete all requirements for Core 40.
- Earn 6 credits in the college and career preparation courses in a state-approved College & Career Pathway and one of the following:
  1. Pathway designated industry-based certification or credential, or
  2. Pathway dual credits from the lists of priority courses resulting in 6 transcripted college credits
- Earn a grade of “C” or better in courses that will count toward the diploma.
- Have a grade point average of a “B” or better.
- Complete one of the following,
  A. Any one of the options (A - F) of the Core 40 with Academic Honors
  B. Earn the following scores or higher on WorkKeys; Reading for Information – Level 6, Applied Mathematics – Level 6, and Locating Information-Level 5.
  C. Earn the following minimum score(s) on Accuplacer: Writing 80, Reading 90, Math 75.
  D. Earn the following minimum score(s) on Compass; Algebra 66, Writing 70, Reading 80.
  E. Complete an industry-based work experience as part of a two-year career-technical education program (minimum 140 hours)
  F. Earn a state-approved, industry-recognized certification
ACADEMIC PLANNING: THE KEY TO YOUR FUTURE!

Which post-secondary choice is for you?  
Jobs, Apprenticeships, Military Options, Schools

The MSD of Warren Township’s Mission is to assist you in developing a course of study, which will lead to a successful post secondary plan. It is the intent of Warren Central High School to help you in this process in every way possible. Through careful planning, you should be prepared upon graduation to enter the job force, begin an apprenticeship program, join the military or attend a post secondary school to meet the educational requirements necessary for the career of your choice.

If a career goal has not yet been identified, you should take advantage of the many resources available to assist in this planning process. The WCHS MediaPlex, Counseling Services Center, public libraries, Internet access, job shadowing, and personal career exploration are but a few options, which can aid in this search. Website listings have been distributed to all students by the Counseling Services Center.

wchs.warren.k12.in.us/counseling
www.learnmoreindiana.org
www.bigfuture.org

Once a career direction has been determined, the pages that follow will be of great value as you plan your course of study throughout high school. Courses needed to attain individual career goals are listed in each of the career clusters. Some careers require technical/vocational education (usually 2 years or less) while others require 4 or more years of post secondary education.

The Career Cluster information which follows is organized around five areas on the following pages:

(BIT) Business & Information Technology Careers  Pg. 9
(CAC) Communication & the Arts Careers  Pg. 10
(EIT) Engineering & Industrial Technology Careers  Pg. 11
(HLS) Health & Life Sciences Careers  Pg. 12
(HGS) Human & Government Services Careers  Pg. 13

Study the career opportunities that best meet your expectations and make a plan for a course of study that will help you to reach these goals.
Technical
Up to 2-year degrees

Accountant Assistant
Agri-Business Owner/Mgr.
Apparel Merchandiser
Bookkeeper
Business Administration
Cert. Network Administrator
Computer Application Specialist
Computer Info. Specialist
Computer Operator
Computer Programmer
Economist
Exec. Administrative Assistant
Hotel/Motel Manager
Insurance Agent
Internal Auditor
Logistics Manager
Merchandiser
Computer Network Manager
Office Manager
Paralegal
Product Demonstrator
Public Relations Representative
Quality Manager
Real Estate Agent
Real Estate Appraiser
Restaurant Manager
Retailer
Secretary
Stenographer
Travel Agent/Guide
Word Processor

DO YOU ENJOY THE THOUGHT OF RUNNING YOUR OWN BUSINESS?

Apprenticeship/
On the Job Training

Bank Teller
Bookkeeper
Clerks: Billing
File
General
Hospital
Hotel
Insurance
Medical Records
Mortgage Control
Order
Payroll
Shipping
Receiving
Stock

DO YOU ENJOY QUESTIONING AND DOING RESEARCH?

College
4-year + degrees

Accountant
Actuary
Administrator
Advertiser
Advertising Manager
Analyst
Auditor
Bank Trust Officer
Business Executive
Buyer
Company Treasurer
Computer Operator
Computer Programmer
Computer Info Specialist
Convention Manager
Corporate Attorney
Economist
Financial Planner
Foreign Exchange Trader
Hotel/Motel Manager
Hotel/Motel Owner
Insurance/ Underwriter
Investment Analyst
Manager
Manufacturer Rep.
Merchandiser
Real Estate Agent
Research Analyst
Retailer
Sales Agent
Securities Trader
Stock Broker
System Analyst
Tax Administrator
Tax Preparer
Teacher/Professor
Wall Street Analyst

DO YOU ENJOY TRYING TO CONVINCE OTHERS OF YOUR THOUGHTS/IDEAS?
COMMUNICATION & THE ARTS CAREERS (CAC)

**Technical**
Up to 2-year degrees

- Actor/Actress
- Announcer
- Archaeologist
- Artist
- Audio Technician
- Audio/Visual Assistant
- Band/String Instrument Technician
- Broadcast Journalist
- Camera Operator
- Cartoonist
- Choreographer
- Commercial Artist
- Composer
- Cosmetologist
- Costume Designer
- Costume Construction Technologist
- Dancer
- Desk Top Publishing
- Disc Jockey
- Display Manager
- Graphic Design Artist
- Illustrator
- Interior Designer
- Journalist
- Library Assistant
- Light/Sound Operator
- Make-Up Artist
- Package Designer
- Painter
- Photographer
- Police Artist
- Potter
- Program Coordinator
- Public Relations Specialist
- Sculptor
- Set Decorator
- Set Designer
- Stagecraft Technician
- Tailor
- Visual Communicator
- Weaver

**DO YOU ENJOY DRAMA OR ACTING?**

- Camera Operator
- Desk Top Publisher
- Engraver
- Floral Designer
- Interpreter
- Library Clerk
- Model
- Musician
- Photo Journalist
- Photographer
- Photo Lab Worker
- Puppeteer
- Woodworker

**Apprenticeship/On the Job Training**

- Camera Operator
- Disc Jockey
- Display Manager
- Graphic Design Artist
- Illustrator
- Interior Designer
- Journalist
- Library Assistant
- Light/Sound Operator
- Make-Up Artist
- Package Designer
- Painter
- Photographer
- Police Artist
- Potter
- Program Coordinator
- Public Relations Specialist
- Sculptor
- Set Decorator
- Set Designer
- Stagecraft Technician
- Tailor
- Visual Communicator
- Weaver

**College**
4-year + degrees

- Actor/Actress
- Announcer
- Arranger
- Art Director
- Art Historian
- Artist
- Art Therapist
- Cable TV Programmer/Producer
- Cartoonist
- Choral Director
- Choreographer
- Cinematographer
- Columnist
- Commentator
- Commercial Producer
- Composer
- Computer Artist
- Conductor/Orchestra/Band
- Curator
- Dance Instructor
- Dancer
- Designer: Clothing/Display/Scene/Fashion
- Director/Radio-TV
- Disc Jockey
- Editor
- Editorial Assistant
- Employment Interviewer
- Engineer-Recording/Studio Operator
- Fashion Coordinator
- Fashion Merchandiser
- Field Representative
- Film Director
- Film Editor/Photographer
- Food Editor
- Foreign Correspondent
- Graphic Design Artist
- Interior Designer
- Journalist
- Librarian
- Linguist
- Make-up Artist
- Media Specialist
- Music Business Administrator
- Musician
- Music Merchandiser
- Pattern Designer
- Poet
- Potter
- Proofreader
- Public Administrator
- Radio/TV Announcer/Newscaster
- Reporter
- Sculptor
- Set Director/Designer
- Singer
- Stage Manager
- Teacher/Professor
- Television: Editor/Reporter/Anchor
- Translator
- Visual Arts Instructor
- Writer: Copy/Technical Publications
- Writer: Screen/Play

**DO YOU ENJOY TAKING PICTURES?**

- Camera Operator
- Desk Top Publisher
- Engraver
- Floral Designer
- Interpreter
- Library Clerk
- Model
- Musician
- Photo Journalist
- Photographer
- Photo Lab Worker
- Puppeteer
- Woodworker

**DO YOU ENJOY PUBLIC SPEAKING OR BEING IN THE SPOTLIGHT?**

- Camera Operator
- Desk Top Publisher
- Engraver
- Floral Designer
- Interpreter
- Library Clerk
- Model
- Musician
- Photo Journalist
- Photographer
- Photo Lab Worker
- Puppeteer
- Woodworker
Technical
Up to 2-year degrees

Architectural Drafter
Automotive Mechanic
Aviation Technologist
Bowling Equipment Mechanic
Building Technician
CAD Technologist
Carpenter
Chemical Technologist
Civil Engineering Technologist
Computer Integrated Mfg. Technologist
Technologist
Computerized Numerical Controller
Computer Programmer
Construction Technologist
Design Technologist
Diesel Mechanic Technologist
Drafter
Electrical Engineering Technologist
Technologist
Electronics Communicator
Electronics Computer Digital Repairer
Electrician
Electronic Repairer
Engraver
Forklift Operator
Heating & Air Conditioning Repairer
Insulation Worker
Ironworker
Line/Cable Installer
Machine Operators
Marina Dry Dock Manager
Masonry Mechanic
Painter/Paper Hanger/Plasterer
Plumber
Printing-Press Operator
Program Director
Roofer
Sheet metal Worker
Tool & Die Maker
Truck Driver
Vending Machine Repairer
Video Operator
Welder
Woodworker

College
4-year + degrees

Aerospace Technologist
Airplane Pilot
Applied Optics Engineer
Architect
Astronomer
Aviation Administrator
Chemist
Civil Engineering Technologist
Computer Engineer
Computer Programmer
Construction Technologist
Engineer:

Aeronautical
Agricultural
Biomedical
Ceramic
Civil
Chemical
Electrical
Electronics
Industrial
Marine
Mechanical
Metallurgical
Mining
Nuclear
Ocean
Petroleum
Plastic
Robotics
Safety
Transportation
Welding

Engineering Analyst
General Industrial Supervisor
Graphic Arts Management
Industrial Auto Technologist
Manufacturer Technologist
Mathematician
Mechanical Technologist
Metallurgist
Physicist
Professional Pilot
Special Agent/FBI
Statistician
Surveyor
Teacher/Professor

DO YOU ENJOY WORKING WITH COMPUTERS AND OPERATING MACHINERY?

DO YOU ENJOY TEACHING NEW IDEAS TO OTHERS?
## Technical
Up to 2-year degrees

- Agribusiness Specialist
- Agriculture Economist
- Assistant: Dental
  - Physical Therapist
  - Medical
- Ballistics Expert
- Clerk: Claims
  - Gerontology
  - Hospital
  - Medical Insurance
- Conservationist
- Dance/Fitness Instructor
- Decontaminator
- Dental Hygienist
- Environmental Specialist
- Forester
- Horticulturist
- Landscaper
- Medical Transcriptions
- Nurse (LPN)
- Nursing Home Attendant
- Substance Abuse Counselor

## College
4-year + degrees

- Agronomist
- Allied Health Professional
- Anesthesiologist
- Aquaculturist
- Archaeologist
- Athletic Trainer
- Audiologist
- Biochemist
- Biologist
- Biomedical Engineer
- Botanist
- Cardiologist
- Chemist
- Chiropractor
- Counselor
- County Agricultural Agent
- Dentist
- Dermatologist
- Dietician
- Ecologist
- Entomologist
- Environmental Analyst
- Environmental Health Administrator
- Etymologist
- Farmer
- Food & Drug Inspector
- Forester
- Game Keeper
- Geologist
- General Practitioner
- Geneticist
- Gynecologist
- Health Care Administrator
- Health/Fitness Manager
- Horticulturist
- Hospital Administrator
- Hydrologist
- Landscape Architect
- Marine Biologist
- Medical Technologist
- Meteorologist
- Microbiologist
- Neurologist
- Nurse (RN)
- Nursing Home Administrator
- Nutritionist
- Obstetrician
- Oceangrapher
- Ophthalmologist
- Pathologist
- Pediatrician
- Pharmacist
- Physician
- Podiatrist
- Psychiatrist
- Psychologist
- Radiologist
- Seismologist
- Speech Pathologist
- Surgeon
- Teacher/Professor
- Urologist
- Veterinarian
- Zoologist

### Apprenticeship/On the Job Training

**Animal Caretaker**
**Assistant:** Florist
**Orthodontist**

**Clerk:**
- Hospital
- Medical Room
- Medical Assistant
- Medical Transcription
- Medical Equipment
- Emergency Medical
- Forestry
- Hazardous Waste
- Lab
- Nuclear Medical
- Mental Health
- Pharmacist
- Radiologist

**Technologist:**
- Dairy
- Dental Lab
- Dialysis
- Dietetic
- Food
- Funeral Service
- Histotechnologist
- Medical
- Medical Imaging
- Optical
- Phlebotomy
- Radiology
- Surgical
- Veterinary

**Therapist:**
- Addictions Counselor
- Occupational
- Physical
- Recreational
- Residential
- Respiratory
- Therapeutic Massage

### DO YOU ENJOY DEALING WITH ANIMALS AND CARING FOR THEM?

- Animal Caretaker
- Florist
- Orthodontist
- Veterinary

**Instructor:**
- Aerobics
- Fitness
- Herbarium Worker
- Landscaper
- Nursing: Aides
  - Home Attendant
  - Lab Assistant
  - Psychiatric
- Recreational/Camp Work

**DO YOUENJOY WATCHING OR PARTICIPATING IN SPORTS?**

- Animal Caretaker
- Florist
- Orthodontist
- Veterinary

**Apprenticeship/On the Job Training**

**Animal Caretaker**
**Assistant:** Florist
**Orthodontist**

**Clerk:**
- Hospital
- Medical Room
- Medical Transcription
- Medical Equipment
- Emergency Medical
- Forestry
- Hazardous Waste
- Lab
- Nuclear Medical
- Mental Health
- Pharmacist
- Radiologist

**Technologist:**
- Dairy
- Dental Lab
- Dialysis
- Dietetic
- Food
- Funeral Service
- Histotechnologist
- Medical
- Medical Imaging
- Optical
- Phlebotomy
- Radiology
- Surgical
- Veterinary

**Therapist:**
- Addictions Counselor
- Occupational
- Physical
- Recreational
- Residential
- Respiratory
- Therapeutic Massage

### DO YOU ENJOY WATCHING OR PARTICIPATING IN SPORTS?

- Animal Caretaker
- Florist
- Orthodontist
- Veterinary
### Technical
Up to 2-year degrees

- Archaeologist Assistant
- Baker
- Baking & Pastry Arts Specialist
- Barber
- Camp Director/Assistant
- Caseworker
- Child Care Attendant
- Christian Education
- Conservation Officer
- Cook
- Corrections Officer
- Cosmetologist
- Criminal Justice
- Culinary Art Specialist
- Customer Service Specialist
- Early Childhood Instructor
- Fire Scientist Specialist
- Flight Attendant
- Food Service Technologist
- Host/Hostess
- Labor Analyst
- Law Enforcement Officer
- Nanny
- Pastoral Counseling/Assistant
- Recreation Manager Travel Agent
- Recreational Leader/Director
- Restaurant Assistant
- Restaurant Food Service Manager
- Therapist: Clinical
  - Technician
  - Occupational
  - Recreational

World Ministry
- Youth Minister

### DO YOU ENJOY HELPING OTHERS BY LISTENING WHEN NEEDED?

- Armed Forces
- Bank Teller
- Bus/Taxi/Truck Driver
- Cashier
- Child Care Attendant
- Clerk
- Cook/Baker
- Firefighter
- Homemaker
- Host/Hostess
- Law Enforcement
- Nanny
- Peace Corp
- Receptionist
- Teacher Aid

### College
4-year + degrees

- Ambassador
- Anthropologist
- Attorney/Lawyer
- Camp Director
- Chef/Gourmet/Pastry
- Child Care Administrator
- CIA Intelligence Officer
- Correction Officer
- Counselor
- Customs Officer
- Economist
- Educational Administrator
- Employment Counselor
- Fish/ game Warden
- Food Service Supervisor
- Foreign Correspondent
- Foreign Service Officer
- Gerontologist
- Governmental Service Agent
- Historian
- Home Economist
- Housing Manager
- Human Resources Director
- Immigration Inspector
- Importer/Exporter
- Intelligence Specialist
- International Executive
- Judge
- Labor Analyst
- Librarian
- Minister
- Occupational Therapist
- Park Ranger
- Peace Corps Volunteer
- Personnel Recruiter
- Political Scientist
- Probation Officer
- Psychologist
- Public Relations Representative
- Recreational Therapist
- Secret Service Agent
- Sociologist
- Teacher/Professor
- Urban Planner

### DO YOU ENJOY LEARNING ABOUT THE LAWS AND RIGHTS OF YOURSELF AND OTHERS?
The Business Technology Department mission is to develop students’ business attitudes, interests, and skills for employment in an ever-changing global society.

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Do you want financial power over your future? The financial tools gained in this class will help you build the life style you want. Learn how to manage your finances with budgeting and saving. Explore insurance, income, spending, investing and credit. This is a project based class that combines computer software applications Word, Excel, PowerPoint and Virtual Business to equip you with the knowledge to be successful in future finances.

**DISCOVERING BUSINESS AND MARKETING**

This course can be taken 1st and/or 2nd semester.

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. Fall semester topics include economics, career development, entrepreneurship, management, and leadership skills. Spring semester topics cover marketing, technology, finance, and accounting. Emphasis on the roles of individuals as consumers, investors, employees, and citizens provides a wide variety of project-based understanding. 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**

This course can be taken 1st and/or 2nd semester.

Jump start your career by taking a course that will help you understand the world in which you work. This class will help you 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.

Dual enrollment is available through Ivy Tech Community College.

**SPORTS, RECREATION AND ENTERTAINMENT MARKETING**

This course can be taken 1st and/or 2nd semester.

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 to the sports and entertainment industry. They will examine 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.

**ACCOUNTING 1-2**

This course can be taken 1st through 4th semester.

Are you pursuing an interest in business? 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.

**ACCOUNTING 3-4**

A student must have successfully completed Accounting 1-2 in order to take Accounting 3-4. This course is designed to provide the student with further skills in applying the principles learned in the first year of accounting. The course is project-based and students will analyze financial statements and suggest methods to improve businesses. Students will be exposed to cost, tax, and payroll system accounting. This course is strongly recommended for student planning to major in business in college.

**BUSINESS MATH 1-2**

This course can be taken 1st and/or 2nd semester.

Whether balancing an account, getting a loan, or calculating your paycheck – proficiency in basic math skills is needed to survive. Earn a math credit that will give you practical mathematic strategies for your business and personal needs. Learn how basic math skills that are used in personal finance and in the business world can assist you in being a success in the real world. Each semester can be taken independently of each other. This course meets the math requirement for a general diploma, not core 40.

**BUSINESS LAW & ETHICS**

This course can be taken 1st and/or 2nd semester.

Have you ever watched court television shows or the news? 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.

**DIGITAL CITIZENSHIP**

Do you want to become more efficient in Word, Excel, Access, and PowerPoint? This course will give you the tools to prepare you for college or the workforce. Get practical hands-on experience by creating documents, worksheets, database projects, as well as, creative visual presentations that can be used at both 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.

**INFORMATION COMMUNICATIONS & TECHNOLOGY**

Do you want to make your work standout? Add more flare to any program in Microsoft Office Suite? This course gives students an excellent opportunity to prepare themselves for any school or work related projects that they might run into using the Microsoft Office Suite of Word, Excel, Access, and Power Point. This advanced course will prepare students for advanced level usage of the Microsoft Office Suite. Students will be involved with higher level projects that will go deeper into the capabilities of the various programs offered under the Microsoft Office Suite. Students electing this one-semester course must have completed IT Fundamentals first.
COMPUTER ILLUSTRATIONS & GRAPHICS  
(2241) (2242) Grades 10-11-12

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, Publisher, and Adobe Photoshop 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.

ENTREPRENEURSHIP & NEW VENTURES  
(2931) (2932) Grade 10-11-12
This course can be taken 1st and/or 2nd semester.

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 for a business with emphasis on entrepreneurship responsibilities, financial background, teamwork and leadership skills, as well as, how to make quick daily business decisions.

BEGINNING WEB DESIGN  
(2251) (One semester) (2252) Grades 10-11-12

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.

ADVANCED WEB DESIGN  
(2261) (One semester) (2262) Grades 10-11-12

Learn the latest advanced techniques for designing web pages. Students electing this course must have completed 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. Students will also become proficient in computer peripherals such as flatbed scanners and digital cameras.

Dual enrollment is available through Ivy Tech Community College.

COMPUTER PROGRAMMING 1-2  
(2621) (2622) Grades 10-11-12

So you want to be a game developer when you get older! 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!

.BIT ACADEMY CLASSES

FINANCIAL SERVICES INTRODUCTION  
(2941) (Fall semester) Finance Academy Grade 11

Do you want to learn more about money? Are you wondering what Financial Peace is all about? Becoming a part of the Finance Academy by taking this class will help you answer these questions. You will be good as gold as you learn how to invest in stocks, bonds, and real estate. You will gain hands on experience from financial guru Dave Ramsey. Financial Services is your ticket to success. Admittance into Finance Academy will be subject to previous year’s attendance, discipline, and academic records.

ECONOMICS OF BUSINESS & FINANCE  
(8752) (Spring) Finance Academy Juniors Only Grade 11
Prerequisites: Successful Completion of Financial Services Intro

This course replaces the standard Economics graduation requirement for those students participating in the Finance Academy/Financial Services – Intro class. This class will detail the experiences of taxation, consumption, production and political systems. There will be special emphasis on business and finance.

FINANCIAL SERVICES ADVANCED  
(2911) (2912) 2nd Year Finance Academy Grade 12
Prerequisites: Successful completion of Financial Services – Intro and teacher recommendation

Are you serious about your future? 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 Financial Services – Advanced students will have the chance to meet and talk one on one with business professionals. This project and group based class will help prepare you for college or a career. You may even get a head start on college through our International Business and Finance college class, offered exclusively to Finance Academy seniors at the University of Indianapolis. This class is about money and careers...skills for your life!

BUSINESS MANAGEMENT 1-2  
(2511) (2512) Grade 12
Prerequisites: Student must have completed 2 computer classes.

Is YOUR goal to be able to work from home in front of a computer, creating web sites and other computer media? Would you like to start your own web-design company and be self employed? This is a project-based course, which will bring students from all three pathways (networking, programming, and application) together to explore new areas of technology and learn needed work-ready skills. A high degree of emphasis will be placed on teamwork, project management, time management, prioritizing and interpersonal skills and activities that take place daily in a work environment.

BROADCASTING INTRO – RADIO/VIDEO

To begin in broadcasting, students must take one semester of Radio and one semester of TV.
RADIO BROADCASTING & PRODUCTION INTRO  
(2801) (One Semester) (2802)  
Grade 10-12  
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, newscasting, interviewing, and multi-track audio production. 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 BROADCASTING & PRODUCTION INTRO  
(2811) (One Semester) (2812)  
Grade 10-12  
Welcome to show business! This class will introduce you to the exciting career of video production through the use of hands-on experiences. Students will receive experience and training in camera operation, editing, script writing and many other aspects of TV production. Students will use the WCTV studios and equipment to develop their technical and teamwork skills. Students must successfully complete this course and have permission from the instructor before taking the advanced class.

RADIO BROADCASTING & PRODUCTION 1-2  
(2821) (2822)  
DUAL CREDIT  
Grades 11-12  
Prerequisite: To be eligible for this course, you must satisfactorily completed both the Radio and the TV Broadcasting and Production Intro courses and/or Teacher Recommendation required  
Students enrolled in this course are required to participate in after school events and/or activity coverage.

RADIO BROADCASTING & PRODUCTION 3-4  
(2831) (2832)  
DUAL CREDIT  
Grades 11-12  
Prerequisite: Teacher Recommendation required  
Students enrolled in this course are required to participate in after school events and/or activity coverage.

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 sportscasting and newscasting. 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. To be eligible for this course, you must satisfactorily complete both the Radio Broadcasting and Production Intro course and the TV Broadcasting and Production Intro course.

TV BROADCASTING & PRODUCTION 1-2  
(2841) (2842)  
DUAL CREDIT  
Grades 11-12  
Prerequisite: To be eligible for this course, you must satisfactorily completed both the Radio and the TV Broadcasting and Production Intro courses and/or Teacher Recommendation required  
Students enrolled in this course are required to participate in after school events and/or activity coverage.

TV BROADCASTING & PRODUCTION 3-4  
(2851) (2852)  
DUAL CREDIT  
Grades 11-12  
Prerequisite: Teacher Recommendation required  
Students enrolled in this course are required to participate in after school events and/or activity coverage.

Lights...camera...action! Welcome to the fact paced world of television production. This class will expand upon what you’ve already learned and put you in control of our school’s television station, WCTV. 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. This class is conducted within a real-life, professional workplace atmosphere. Get a jump start on a career in TV productions. Students should have successfully completed “TV Broadcasting and Production Intro” and have prior approval of the instructor before signing up for this course. Two (2) After School shooting events are required for this course.

HEALTH CAREER PROGRAMS

HEALTH SCIENCE EDUCATION I & 2  
(2961) (2962)  
DUAL CREDIT  
Grade 11 – 2 Hours

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, field trips, and observational experiences. Students will learn entry level skills in a lab environment. A strong science and math foundation is important and a 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  
(2971) (Fall semester)  
DUAL CREDIT

The Health Science course is open to seniors who have successfully completed Introduction to Health Science Education 1 & 2. The course content includes competencies that prepare the student for specific occupations within the health care system such as nursing assistant, emergency medical services, and pharmacy tech services. This course allows for more in-depth knowledge, skills, and aptitudes to be developed in a specific occupation. This is a three-hour class offered in the fall semester. Students are responsible for purchasing uniforms to participate in practicum. Students will be required to have a physical and required vaccination.

HEALTH SCIENCE EDUCATION II SPECIAL TOPICS  
(2972) (Spring semester)  
DUAL CREDIT

The Health Career Practicum is open to all seniors who successfully complete Health Science Education II. The program offers valuable exposure to students pursuing professional or technical health careers. The curriculum offers medical clerical training; however, 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. New students will be required to have a physical and required vaccination. There can be no infractions on the criminal history check in order to advance to semester two.

Dual credit is available through Ivy Tech Community College to those demonstrating competency at state mandated levels.

DENTAL CAREERS I  
(2981) (2982)  
Grade 11-12 – 3 Hours

The Dental Careers Program, open to seniors, is an exciting yet rigorous course in a professional, career-oriented atmosphere. Students are instructed in dental anatomy, terminology, instruments, and materials with a “hands on” approach to dental procedures in the simulated dental office classroom. Work experience becomes a part of the program second semester with a six-week internship. 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 practicum site. Students will be evaluated on attendance, grades and discipline. New students will be required to have a physical and required vaccination. There can be no infractions on the criminal history check in order to advance to semester two.
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.

Course Sequence for 2013-2014

The Engineering & Technology Education Department offers courses in Engineering & Technology (1 hour classes) and Career and Technical Education (2 and 3 hour classes). Beginning career and technical classes are usually two hours in length and advanced classes are generally 3 hours in length. Check individual course descriptions for specific details.

It is highly recommended that students take a one hour related course in Engineering & Technology Education prior to enrolling in a career and technical program during their junior or senior year. Related course work, attendance, and grade point average will be used in the screening process for enrollment in frequently requested courses.
THE NATIONAL PROJECT LEAD THE WAY

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)

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.

Foundation Courses

INTRODUCTION TO ENGINEERING DESIGN

(POE) 1-2 DUAL CREDIT
(5261) (5262) Grades 9-10-11-12

Prerequisites: Students entering as freshman need to be enrolled in Algebra or have earned a C- or better in Algebra as an 8th grader.

Are you someone who wishes things were designed better, worked better, or were just easier to use? Have you ever had an idea that you think would make life easier? Do you like puzzles and challenges or seeing how things work? Are you a creative problem solver? If you can answer yes to any of these questions, then this is the class for you.

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. You will learn how to use a 3D modeling software package to bring your ideas to life. This software 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. Students who take this course will have the opportunity to earn dual college credits.

PRINCIPLES OF ENGINEERING

(5271) (5272)

Prerequisite: Introduction to Engineering Design (IED) 1-2 or concurrent enrollment in Principles of Engineering (POE) 1-2

What do ping pong balls, marbles, robots, and computers all have in common? The answer is they are all used in the Principles of Engineering (POE) 1-2 course. Students in engineering teams get 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 various post-secondary schools.

Specialized Courses

COMPUTER INTEGRATED MANUFACTURING

(CIM) 1-2 DUAL CREDIT
(5361) (5362) Grades 11-12

Prerequisites: See Above

Do you like to know how things work? Have you ever wondered how they are made? Then enter the world of robotics and automation as you learn through hands on and real world activities about the world of CIM. This class provides you with the opportunity to work with cutting edge software and equipment just like the ones used in manufacturing today. You will be amazed as you watch the machinery you designed and programmed come to life as it goes to work performing whatever tasks and functions you told it to do.

This course focuses on Robotics, Control Systems, 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 who take this course will have the opportunity to earn dual college credits from various post-secondary schools.

CIVIL ENGINEERING & ARCHITECTURE

(CEA) 1-2 DUAL CREDIT
(5281) (5282) Grades 11-12

Prerequisites: See Above

Do you ever think about why buildings are designed the way they are? Have you ever wondered how it was constructed? 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 students will want to enroll in if they are interested in residential architecture, urban planning, historical 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) 1-2 DUAL CREDIT
(5351) (5352) Grades 10-11-12

Prerequisite: See Above

Did you know that the following statement is true: (1+1=10)? Did you know that most devices we use today such as iPods and computers operate with digital circuits? You will find the answers to these questions in Digital Electronics (DE). DE is a specialty course in a sequence of courses that meet the requirements for the PLTW Engineering program.

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, garage door circuit, and other circuits. Students will program robots 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 credits from various post-secondary schools.
COMMERCIAL AND DIGITAL PHOTOGRAPHY  
(Formerly ADVANCED MEDIA ARTS II/3-4)  
(521) (522)  
Grades 11-12  
Prerequisite: Media Arts I/1-2  
Students MUST provide their own digital camera and MUST have teacher recommendation.

Have you successfully completed Media Arts I/1-2? Do you own your own digital camera? Do you want to expand your creative abilities and produce a portfolio of your own work? If your answers are all ‘YES’, then Commercial & Digital Photography is for you. 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-oriented assignments. The aim of this project approach is to enlarge 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.

COMPUTERS IN PRODUCTION & DESIGN  
(5301) (5302)  
Grades 10-11-12  
Are you interested in CAD, Engineering, or a Trade? 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.

Students may take the course at any grade level. However, it is recommended that they take the course as a sophomore, especially those interested in a career & technical program during their junior or senior year.

INTRODUCTION TO CONSTRUCTION  
(5691) (5692)  
Grades 10-11-12  
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 Industrial 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 a student take Computers in Production & Design while taking Introduction to Construction. It is also recommended that students planning to take Building Trades Technology 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  
There are no prerequisites for this class. Students planning to take Precision Machine Technology or Welding Technology are advised to take this course during the 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, plastics, and other materials. This class meets for 1 period per day M-F.
INTRODUCTION TO ADVANCED MANUFACTURING AND LOGISTICS
(5481) (5482)

DUAL CREDIT
Grades 10-11-12

There are no prerequisites for this class. Introduction to Advanced Manufacturing and Logistics is a course that specializes in how people use modern manufacturing systems with an introduction to advanced manufacturing and logistics and their relationship to society, individuals, and the environment. Students apply the skills and knowledge of using modern manufacturing processes to obtain resources and change them into industrial materials, industrial products and consumer products. Students gain a basic understanding of tooling, electrical skills, operation skills, inventory principles, MSDS’s, chart and graph reading and MSSC concepts. There is also an emphasis placed on the flow process principles, material movement, safety, and related business operations. Students will pursue careers in Logistics and Advanced Manufacturing.

INTRODUCTION TO TRANSPORTATION
(5671) (5672)

Graduates 10-11-12

Have you ever wanted to build your own personal transportation vehicle? 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:

- Small Engines
- Alternative Fuel Energy
- Personal Water Crafts
- Super Mileage Vehicle
  http://www.doe.in.gov/octe/technologyed/SuperMileageChallenge.html
- Flight
- Energy and Power

This course is recommended for students who want to further their education in automotive collision repair or automotive services. Students who complete the course will gain one credit per semester. This class meets for one hour per day five days a week.

3D COMPUTER ANIMATION & VISUALIZATION
(5291) (5292)

Graduates 11-12

Have you ever wondered how animations are made for video games? Have you ever thought of that as a career? We 3D Computer Animation & Visualization is the course for you.

This course is designed for students who wish to develop their skills and interested in the field of animation. Areas of focus will include product design, multimedia, architectural development, and training. Students will cover topics in model creation, materials and rendering, lighting, cameras, time and motion, storyboarding, and post production. Projects will be presented in print, CD, DVD, television, and web based media.

There are no prerequisites, however it is highly recommended that have a background in CAD, multimedia, art, commercial design, or video production.

CAREER & TECHNICALCOURSES

(2-3 HOURS)

ARCHITECTURAL DRAFTING AND DESIGN I
(5331) (5332)

DUAL CREDIT
Grades 10-11-12

1 or 2 credits per semester/ 1 or 2 periods per day

Prerequisites: Computers in Production & Design
or Introduction to Engineering (IED)

Everything that has been constructed from houses and skyscrapers to bridges and super-highways start off as drawings. Those drawings are created using CAD (Computer Aided Drafting). 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 make a part that could used to build an addition on a house.

If you are interested in a career in engineering, architecture, or design, then CAD is the class for you. This class offers dual credits through Ivy Tech Community College. The class will meet for one or two hours per day. This course is a prerequisite for Architectural Drafting And Design II.

ARCHITECTURAL DRAFTING AND DESIGN II
(5341) (5342)

DUAL CREDIT
Grades 10-11-12

Prerequisite: Architectural Drafting and Design I
2 credits per semester/2 periods per day

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.

Students also have the opportunity to earn college credits through Ivy Tech Community College.

AUTO COLLISION REPAIR TECHNOLOGY I
(5741) (5742)

DUAL CREDIT
Grades 11-12

2 credits per semester/2 periods per day

Do you like to be told you are amazing? That is what you will hear when you can take a wrecked vehicle and repair it to look like new. Collision Technology 1-2 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 skills so you can apply the Perfect Finish.

Are you the artistic type? Custom painting and airbrushing will also be covered.

Employment opportunities include estimator, shop manager, shop owner and body-paint tech.

AUTO COLLISION REPAIR TECHNOLOGY II
(5751) (5752)

DUAL CREDIT
Grades 11-12

Prerequisite: Auto Collision Repair Tech I
2 credits per semester/2 periods per day

Auto Collision Repair II is the Perfect Finish for your Collision Repair Experience. This class requires successfully completing Auto Collision Repair Technology I.

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.

Are you the artistic type? Custom painting, flames and airbrushing are also covered. With your imagination, the skies are the limit on what you can design and paint.
AUTO SERVICE TECHNOLOGY I
(5761) (5762)
2 credits per semester/2 credits per day

Did you know that Automotive Technicians can expect to make good wages even in a down economy? Learn what it takes to start a career in this ever growing industry by taking this course. There are no prerequisites for this class however it is recommended that students complete Technology Systems and Introduction to Transportation before signing up.

This program is certified by the National Automotive Technician’s 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 1-2 and 3-4.

AUTO SERVICE TECHNOLOGY II
(5771) (5772)
Prerequisite: Auto Service Technology I
3 credits per semester/3 periods per day

Do you like cars, working with your hands and don’t mind getting a little dirty every once and a while, then Automotive Service Technology II is the class for YOU. Stop spending all your hard earned money on costly repairs to your vehicle and learn how to diagnose and repair yourself. In the Automotive Technology class you will learn the ins and outs of today’s automobile, from changing oil and brakes, to rebuilding engines and diagnosing electrical issues. Automotive Technicians are highly skilled and in high demand with competitive wages. The prerequisite for this class is Automotive Service Technology I.

In addition to the three credits per semester, six college credits are available for those students who succeed in completion of Automotive Service Technology I-II. This program is certified by the National Automotive Technician’s 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.

CONSTRUCTION TECHNOLOGY I
(Formerly Building Trades Technology 1-2)
(5781) (5782)
Grades 11-12
2 credits per semester/2 periods per day

Grab your piece of the future with skills that you can take to the bank and that will support you for a lifetime. In Construction Technology I, juniors 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. Know the joys, frustration, and ultimately the satisfaction of completing a classroom project that you can show your grandparents and your grandchildren.

Other than a willingness to work with your hands and be outside in all types of weather, no prerequisites are necessary. However, Introduction to Construction and Computers in Production & Design are 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 TECHNOLOGY II
(Formerly Building Trades Technology 3-4)
(5791) (5792)
Grade 12
3 credits per semester/3 periods per day

Play an important role in the completion of a home or be instrumental in the beginning of a new structure. The prerequisite for this course is Construction Technology I. However a first year senior may be enrolled into the senior class. 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 Technology I. Students will be involved in the exciting 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 that successfully complete Construction Technology I-II may continue their education through post secondary schools and apprenticeships. Vincennes University, Ball State University, IUPUI and Purdue University offer varying degrees in engineering, building technology, construction management, and architecture.
ELECTRONICS AND COMPUTER TECHNOLOGY I
(Formerly Electronics Technology 1-2)
(5861) (5862)
2 credits per semester/2 periods per day

Are you interested in knowing how to wire the Internet, cable TV, an integrated audio system, security system, camera surveillance system, or a home theatre in a house? Then YOU need to sign up for the Electronics and Computer Technology I! Wow, did anyone say Smart Home!!!

You 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 security and surveillance systems.

You 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 SkillsUSA and earn college credit from IUPUI, Ivy Tech Community College, Vincennes University, Lincoln College of Technology, or ITT Technical Institute.

ELECTRONICS AND COMPUTER TECHNOLOGY II
(5871) (5872)
DUAL CREDIT
Grade 12

Prerequisite: Electronics and Computer Technology I
2 credits per semester/2 periods per day

If you enjoyed Electronics and Computer Technology I, then this class will provide an opportunity for students to continue with foundational electronic concepts including circuit analysis, digital electronics, and how computer and electronic devices work. 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; breadboarding; 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 use mathematical principles to solve electronic problems and to troubleshoot electrical circuit’s modules.

Students will receive instruction for cleaning computers for viruses, malware, Trojans and spyware from Windows XP, Vista and Windows 7. You 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 SkillsUSA and earn college credit from IUPUI, Ivy Tech Community College, Vincennes University, Lincoln College of Technology, or ITT Technical Institute.

NETWORK FUNDAMENTALS
(Formerly Computer Network Technology 3-4)
(5721) (5722)
DUAL CREDIT
Grade 12

2 credits per semester/2 periods per day

Prerequisite: Computer Tech Support I
This course continues the Computer Network Program taken in PC Tech Support to include the Network+ certification exam. Students will design, install, maintain, and manage both local and wide area networks. Activities include a combination of classroom instruction, e-learning, and laboratory practice that develops 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. Other topics will be designing and installing cable, internet, surveillance and security systems.

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 SkillsUSA and earn college credit from IUPUI, Ivy Tech Community College, Vincennes University or ITT Technical Institute. The Computer Network Technology program is a 4-semester 2-year course.

COMPUTER ILLUSTRATIONS & GRAPHICS
(Course to be taken concurrently with Graphic Design & Layout I)
(2241) (2242)
DUAL CREDIT
Grade 11-12

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, Publisher, and Adobe Photoshop 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.

GRAPHIC DESIGN AND LAYOUT I
(Course to be taken concurrently with Computer Illustrations & Graphics)
(5841) (5842)
DUAL CREDIT
Grade 11-12

Like working with your hands to “bring an idea alive”? Willing to think and work hard? Want a job that pays well, involves your interests and has a place to advance? Then this class might just be what you’ve been looking for! The 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 students are recommended to enroll in Computer Illustrations & Graphics concurrently, and is recommended for students looking for marketable skills in commercial art and journalism. For more information on how to qualify for college credits, please see the instructor.
GRAPHIC DESIGN AND LAYOUT II  
(D551) (5652)  
2 credits per semester/2 periods per day  
Grade 12  
Prerequisite: Graphic Imaging Technology 1-2  

If you enjoyed Graphic Imaging Technology 1-2 and began to see the potential of where you could go with Graphic Imaging, then you’ll want to sign up for this course. It allows you to take your ideas and go deeper and into more complex projects.  

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.  

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.

Students may also receive up to 3 dual credit hours through Vincennes University. For more information on how to qualify for college credits, please see the instructor.

PRECISION MACHINE TECHNOLOGY I  
(D5821) (5822)  
2 credits per semester/2 periods per day  
Grade 11-12  

Do you enjoy working with your hands? Are you a creative individual? Does the prospect of earning $40,000.00 or more a year sound interesting? If you answered yes to all of these questions, you are a perfect candidate for the Precision Machining Technology Program. There is no prerequisite for entrance into the Machining Program however; it is recommended that students take Introduction to Advanced Manufacturing prior to entrance into the program.

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 gages and a variety of other shop related measuring instruments.

Our program has a dual credit agreement with Ivy Tech Community College or Vincennes University which allows student participants to gain college credit during their junior and senior years of high school after completing Precision Machine Technology I-II.

PRECISION MACHINE TECHNOLOGY II  
(D5831) (5832)  
2 credits per semester/2 periods per day  
Grade 12  
Prerequisite: Precision Machine Technology I  

Students continue to develop their machining ability through continued practical application of cutting-edge technologies and implementation of industry recognized best-practices. In addition to their practical skill-set, students are introduced to Advanced Machining Technologies such as CNC Programming and Set-up. Upon completion of the program, students will have gained a level of skill and knowledge sufficient in scope to prepare them for testing to obtain nationally recognized certification offered through MSSC (Manufacturing Skills Standard Council) and NIMS (National Institute for Metalworking Skills, Inc.).

Although students are persuaded to continue developing their metal-working ability by enrolling at Ivy Tech Community College or Vincennes University, should they desire to enter the workforce immediately upon graduation, he/she can be confident in the fact that they have been prepared to meet the demands of working in the advanced manufacturing technology.

WELDING TECHNOLOGY I  
(D5881) (5882)  
2 credits per semester/2 periods per day  
Grade 11-12  

By 2015, the United States will need 115,000 welders, begin your career today in the highly skilled industry of welding. Although there are no prerequisites for Welding Technology, students may want to take Computers in Production & Design and Introduction to Advanced Manufacturing. Welding Technology I meets for two periods a day, but arrangements will be made to ensure that you can make welding a part of your schedule.

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

WELDING TECHNOLOGY II  
(D5891) (5892)  
2 credits per semester/2 periods per day  
Grade 11-12  

81% of manufactures in the United States cannot find highly skilled welders. Building on the skills you developed in Welding Technology 1-2, 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 is the limit in a career in welding.

Welding Technology II meets for two hours a day, but arrangements will be made to ensure you get the training for a lifetime.
The mission of the English Department is to produce graduates who read, write, and speak so that they can move responsibly into work, higher education, and daily life.


BACKGROUND

A balance of reading, writing, listening, speaking, grammar, and literature are the most important academic functions in every area of learning. Students who master these subject areas can become members of the competent and competitive work force Indiana needs. Reading, writing, listening, speaking, grammar, and literature also connect people more fully with others in the classroom, in society, and in the world.

The goal of the study of literature is to provide students with frequent opportunities to (1) master and apply essential skills in reading and writing; (2) read widely to build a better understanding of various types of texts, genres, and cultures; (3) read well; (4) acquire new information; (5) build vocabulary; and (6) make reading a lifelong pursuit.

The goal of the study of writing is to provide students with frequent opportunities to master and apply essential skills in writing, using a process that includes (1) prewriting, (2) writing, (3) revising, (4) editing, and (5) producing a final, correct product. This process includes peer evaluations, especially during the revising and editing processes. In addition to instruction in creating clear, coherent, and organized paragraphs and essays for a variety of audiences and purposes, writing instruction includes strategies for collecting and transforming data for use in various kinds of writing. Instruction in grammar, usage, and mechanics is integrated with writing instruction so that students develop a common language for writing. All writing in its final publication follows accepted conventions of language, style, mechanics, and format.

STATE BOARD OF EDUCATION REQUIREMENTS

The State Board of Education requires eight credits in English for graduation from Indiana high schools. The rules further specify that the high school English programs should provide a balance of (1) writing, (2) reading, (3) listening, (4) speaking, (5) grammar, (6) literature, and (7) media studies. Schools may achieve balance by integrating each area into English nine (9); ten (10), eleven (11), and twelve (12); or through a balanced selection of English courses from among the categories of literature, composition, and speech; or through combination approaches. Warren Central High School achieves balance by a combination of approaches. All courses reflect the Indiana English/Language Arts proficiencies and content standards (academic standards). Courses, which primarily emphasize the completion of (1) forms, (2) letter writing, (3) grammar studies, (4) work sheets, and (5) skill and drill, do not meet English credit graduation requirements.

CORE 40 AND ACADEMIC HONORS DIPLOMA (AHD)

The courses that meet Indiana Core 40 requirements reflect the Core standards. All core, advanced core, and X/AP courses meet Language Arts requirements for the Core 40 w/Academic Honors Diploma and Core 40 w/Technical Honors Diploma. Speech, Competitive Speech, all journalism courses, and Etymology earn only elective credit at Warren Central High School.

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GRADE 9 CLASSES

ENGLISH 9/1-2  Core 40
(3111) (3112) Integrated English

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 ECA, 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.

COMPOSITION  (3121) (Fall semester)  Core 40

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 ECA, PSAT, ACT, and SAT.

Composition 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.

GENRES OF LITERATURE  (3122) (Spring semester)  Core 40

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

Genres of Literature provide 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.

ENGLISH 9/1X-2X  Core 40
(3131) (3132) Integrated English

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 ECA, 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.

GRADE 10 CLASSES

ENGLISH 10/3-4  Core 40
(3211) (3212) Integrated English

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 ECA, 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.

EXPOSITORY WRITING  (3221) (Fall semester)  Core 40

You must have earned credit in both Composition and Genres of Literature, 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 9th grade English courses. This study prepares you for the ECA, PSAT, ACT, and SAT.

Expository Writing 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.
AMERICAN LITERATURE  
(3222) (Spring semester) Core 40  
You must have earned credit in Composition, Genres of Literature, and Expository Writing or you must have earned an A or B average in both semesters of English 9A to enroll in this course. American Literature continues to develop all skills taught in previous English courses. Course work prepares you for the ECA, PSAT, ACT, and SAT. American Literature provides you with a survey of the literature produced in the United States from pre-Revolutionary times to the end of the 19th 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.

ENG 10/3X-4X  
(3231) (3232) (Weighted) Core 40  
Integrated English  
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.

Advanced Placement English: Literature and Composition is the third 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 Board 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 sophomore 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 10th grade. This portfolio must include a writing sample based on a piece of literature and written recommendations from your sophomore English teachers.

AP ENGLISH 11/1-2  
LITERATURE AND COMPOSITION  
(3331) (3332) (Weighted) Core 40  
Integrated English  
Advanced Placement English: Literature and Composition is the third 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 Board 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 sophomore 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 10th grade. This portfolio must include a writing sample based on a piece of literature and written recommendations from your sophomore 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 weighed 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.
GRADE 12 CLASSES

ENGLISH 12/7-8 (3411) (3412) Core 40 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 COMPOSITION 2 Core 40/DUAL CREDIT (3422) (Spring semester) Prerequisite: Qualification on ECA
You must have earned credit in Advanced Composition 1 OR you must have earned an A or B average in previous core English courses to enroll in Advanced Composition 2. You should be on-track for a four-year college. Course work prepares you for the ACT and SAT.

In Advanced Composition 2, you will read and analyze texts to determine their authors' rhetorical purposes. 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. The cost to take the course for college credit is $75 (that is, $25 per credit).

The minimum test scores for dual credit are SAT: CR 420 and W 380 or ACT: Rdg. 21 and Eng. 16.

ADVANCED COLLEGE CREDIT ENGLISH/COMP 2 Core 40/DUAL CREDIT (3542) (Spring semester) Prerequisite: Qualification on ECA
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 Vincennes University’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: LANGUAGE & COMPOSITION (3431) (3432) (Weighted) Core 40 Integrated English
Advanced Placement English: Language and Composition is the final 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. To enroll, you should be in the top 10 percent of your graduating class. If you are a student new to Warren Central High School or a student who passed both semesters of junior English with at least a B average and wish to enroll in this course, you must submit to the English Department Chair a portfolio of work which you completed during 11th 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: 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.

GRADES 11 & 12 CLASSES

THEMES IN LITERATURE Core 40 (3501) (Fall semester) Prerequisite: Qualification on ECA
You must have earned credit in Composition, Genres of Literature, Expository Writing, and American Literature, OR you must have earned an A or B average in previous core English courses to enroll in Themes in Literature. You should also be on-track for a four-year college. Course work prepares you for the ACT and SAT.

This course is a survey of the theme of the American Dream in twentieth-century literature. This course covers a variety of genres, including both the novel and drama. Classroom discussion, numerous writing assignments, and periodic presentations give students the opportunity to analyze and explain their responses to great works of the twentieth-century.

CLASSICAL LITERATURE Core 40 (3511) (Fall semester) Prerequisite: Qualification on ECA
You must have earned credit in Composition, Genres of Literature, Expository Writing and American Literature OR you must have earned an A or B average in previous core English courses to enroll in Classical Literature. You should also be on-track for a four-year college. Course work prepares you for the ACT and SAT.

Classical Literature surveys Middle Eastern, Greek, and Medieval European literature through a survey of great authors and works. This course includes the study of a variety of literary genres including tragedy, comedy, epic, and romance. Themes include the transition from oral to literary cultures, the use of mythology, and the role of the hero. Influences of classical literary, patterns, themes, and conventions on modern literature are also explored. Emphasis is placed on reading, oral discussion, and written discourse.
You must have earned credit in Composition, Genres of Literature, Expository Writing and American Literature, OR you must have earned an A or B average in previous core English courses to enroll in Literary Movements. You should also be on-track for a four-year college. Course work prepares you for the ECA, ACT and SAT.

Literary Movements provides the study of European and American literature produced in the Middle Ages, The Renaissance, the Enlightenment, the Romantic Movement, the Realist Period, and the Modernist Era. This course provides an interdisciplinary examination of the connection between intellectual and historic trends including political, philosophical-theological, and aesthetic issues as well as specific literary movements. Writing and discussion activities will provide you with opportunities to explore these trends and movements.

**ENGLISH LITERATURE**

You must have earned credit in Composition, Genres of Literature, Expository Writing and American Literature, OR you must have earned an A or B average in previous core English courses to enroll in English Literature. You should also be on-track for a four-year college. Course work prepares you for the ACT and SAT.

English Literature provides a survey of representative literature produced by English-speaking authors, including those in the British Isles as well as those in the former British colonies. This course includes the study of major British authors from the Anglo-Saxon period through the nineteenth century, literary movements, and intellectual trends. It also provides an examination of the contributions of British authors to specific literary genres, such as poetry, drama, the essay, and the novel. Writing and classroom discussion activities include opportunities for students to respond to the literature both analytically and reflectively.

**INTRODUCTION TO COLLEGE LITERATURE**

You must 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. Course work prepares you for the ACT and SAT and 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. The cost to take the class for college credit is $75 (that is, $25 per credit).

**ELECTIVES – CREDIT ONLY COURSES**

These courses do not count toward your eight (8) English credits required for graduation. However, they do count toward the twenty-two (22) elective credits you need to meet graduation requirements.

**JOURNALISM 1-2**

This yearlong course is open to freshmen who have earned A’s or B’s in 8th 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**

To be enrolled in this course as a 9th grader, the student must be in Composition 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.

**ADVANCED SPEECH**

Advanced Speech focuses on leadership development, listening skills, oral interpretation, parliamentary procedure, research methods, and oral debate. Special attention is given to the creation of a complete outline and support, using two or more sources as well as individual presentation skills. You will concentrate on producing speeches, which (1) inform, (2) motivate, (3) entertain, and (4) persuade through the use of impromptu extemporaneous, memorized, and manuscript delivery. You will develop skill in (1) listening, (2) oral interpretation, (3) parliamentary procedure, (4) research methods, and (5) oral debate.

During both semesters, you will practice competitive strategies and ethics by competing in six IHsFA-sponsored events that are held on Saturdays throughout the state. You will also compete in speaking contests for scholarships sponsored by such organizations as the Veterans of Foreign Wars, American Legion, Sons of the American Revolution, and The International Rotary. Membership in the National Forensic League will be available to qualified students.
ETYMOLOGY
(3881) (3882)  Grades 10-11-12
This course can be taken 1st and/or 2nd 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.

The first semester of this course focuses on Latin elements that appear in the majority of English Words. The second semester concentrates on Greek elements, using memorization, word-formation rules, analysis techniques, and discussion of usage in order to decode unfamiliar words. In addition, the student will learn and use test-taking strategies to help improve performance on the ACT and SAT.

This academic class is recommended for college bound 11th and 12th grade students and those in 10th grade who have demonstrated a high level of academic performance.

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. Your assignments will involve interviewing, reporting, planning, and designing this publication. You will do writing assignments quite frequently. 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.

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. You will plan, design, and sell these publications. 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.
The Family and Consumer Science Department mission is to improve the lives of students through the application of scientific, occupational, and behavioral principles to the process of daily living.

### Preparing for College and Careers

**REQUIRED – Grade 9**

- **Preparing for College and Careers**
- **Housing and Interior Design Foundations** Grades 10-12
- **Human Development & Family Wellness** Grades 10-12
- **Interpersonal Relationships** Grades 10-12
- **Adult Roles & Responsibilities 1-2** Grades 11-12

### Nutrition & Wellness 1

- Grades 9-10-11-12

### Advanced Nutrition & Wellness 2

- Grades 9-10-11-12

### Advanced Nutrition & Wellness 3

- Grades 10-11-12

### Culinary Arts and Hospitality 1-2

- Grades 11-12

### Advanced Culinary Arts 1-2

- Grade 12

### Child Development

- Grades 10-11-12

### Education Professions 1-2

- Grade 12

### Adv. Child Development

- Grades 10-11-12

### Early Childhood Education 1-2

- Grades 11-12

### Textiles and Fashion Foundations 1

- Grades 9-10-11-12

### Textiles and Fashion Foundations 2

- Grades 9-10-11-12

### The Effective Electives

### Preparing for College and Careers

**REQUIRED FRESHMAN COURSE**

- **Preparing for College and Careers**
  - Grade 9
  - (1001) (One semester) (1002)

  Preparing for the world outside of WCHS and helping you be successful while in high school, these are the goals of Preparing for College and Careers class. Topics include communication, leadership, exploration of personal aptitudes, interests and goals; career exploration, planning and building employability skills; transferring school skills to life and work; decision making and organizational skills. Students in the course will develop a 6+ life plan for high school and beyond.

### Child Development and Parenting

- **Child Development and Parenting**
  - Grades 10-11-12
  - (1051) (One semester) (1052)

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

  During this one semester course, you will study pregnancy, prenatal care, 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 Education and Early Childhood 1-2 which offers dual credit through Ivy Tech Community College in Education & Early Childhood.

### Advanced Child Development & Parenting

- **Advanced Child Development & Parenting**
  - Grades 10-11-12
  - (1062) (Spring semester)
  - Prerequisite: Child Development & Parenting

  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 and growth of 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 which offers dual credit through Ivy Tech Community College in Education & Early Childhood.

### Housing & Interior Design Foundations

- **Housing & Interior Design Foundations**
  - Grades 10-11-12
  - (1031) (One semester) (1032)

  This one semester course helps students learn about choosing a place to live, including types of housing, evaluating floor plans, styles of architecture, basic construction practices, design practices, scale drawing and evaluating housing. Interior design includes the study of selecting and arranging furnishings in the home, use of color in decorating, floor and wall treatments, accessories and lighting. Audio-visual materials and working with actual elements of home furnishings are part of this class.
HUMAN DEVELOPMENT & FAMILY WELLNESS
(1022) (One semester) Grades 10-11-12
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 & Family Wellness 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) (One semester) Grades 10-11-12
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 (e.g., power, conflicting interests, peer pressure, life events); establishing and maintaining relationships; building self-esteem and self-image through healthy relationships; communications styles; techniques for effective communication, leadership and teamwork.

ADULT ROLES & RESPONSIBILITIES 1-2
(1041) (1042) Grades 11-12
This course can be taken 1st and/or 2nd semester.

Tired of hearing your parents say “you have no clue what it’s like to be an adult”? Prepare for your life beyond the doors of WCHS/WCC by taking Adult Roles & Responsibilities 1-2 and “get a clue!”

Semester one covers personality, leadership, teamwork, communications skills, work ethic, integration of family and career responsibilities, job-seeking and time management.

Semester two covers parenting, car shopping, personal safety, consumer decisions related to nutrition and wellness, clothing, housing (renting vs. buying), obtaining and maintaining credit, banking and checking accounts, consumer rights and responsibilities.

NUTRITION & WELLNESS OFFERINGS

NUTRITION AND WELLNESS 1
(0901) (One semester) (0902) Grades 9-10-11-12

Learn more about what goes on in the kitchen, through hands on experiences in a foods lab. Nutrition and Wellness is a beginning level foods class that looks at the basics of how to prepare healthy meals and snacks. Topics include nutrition, safety and sanitation, kitchen equipment, and preparation techniques. Selecting, storing and cooking foods from each of the food groups will also be covered. This class is a prerequisite for all other food classes.

NUTRITION AND WELLNESS 2
(0912) (Spring semester) Grades 9-10-11-12
Prerequisite: Successful completion of Nutrition and Wellness 1.

Nutrition and Wellness II is an intermediate level foods class that extends your knowledge in nutrition, baking, as well as meal planning and preparation. Continue improving your kitchen skill through hands on lab experiences. Meal service, table setting, and restaurant etiquette are also included in this course.

NUTRITION AND WELLNESS 3
(0921) (One Semester) (0922) Grades 10-11-12
Prerequisite: Successful completion of Nutrition and Wellness 1

Nutrition and Wellness III is an advanced level foods class that investigates international food customs and recipes by planning and preparing meals from all over the world. In addition, students will experiment with kitchen appliances through self-led demonstrations.

INTRODUCTION TO CULINARY ARTS
(0991) (One Semester) (0992) Grades 10-11-12
Have you thought about a career in the restaurant business? This class will help you determine if a career in culinary arts is for you. Students get hands on experience working with restaurant equipment through the preparation of recipes. Topics include restaurant safety and sanitation; HACCP guidelines; knife skills; recipe conversions; cooking methods; and careers in the culinary arts. This class is an advanced course to prepare students for Culinary Arts and Hospitality 1-2 and Advanced Culinary Arts 1-2 family issues.

TEXTILE & FASHION OFFERINGS

*In all clothing classes, students are expected to supply all materials & small equipment with which to work. Cost varies greatly.

FASHION AND TEXTILES FOUNDATIONS 1
(0961) (One semester) (0962) Grades 9-10-11-12

Would you like to gain skills and knowledge that will last a lifetime? Then learning to sew is for you! In this course, students will discover how fabric is made, identify sewing equipment and construct basic sewing projects by hand sewing and machine sewing. Students will create and keep their own projects as well as work together on a community project.

FASHION AND TEXTILES FOUNDATIONS II
(0972) (Spring semester) Grades 9-10-11-12
Prerequisite: Fashion and Textiles Foundations 1

If you enjoyed Fashion and Textiles 1, you will find Fashion and Textiles 2 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 an outfit using the elements of design.

CTE FAMILY & CONSUMER SCIENCE

COSMETOLOGY 1-2
(5941) (5942) Grades 11
4 credits per semester/4 periods per day/Per. 1-4

COSMETOLOGY 3-4
(5951) (5952) Grades 12
4 credits per semester/4 periods per day/Per. 5-8

Prerequisite: Cosmetology 1-2

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), 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 completed 1,500 hours of combined theory and practical skills needed to attain your Indiana State cosmetology license. The cost for the necessary materials is $450.00 for the first year and $250.00 for the second year.
**CULINARY ARTS AND HOSPITALITY 1-2**
*(0931) (0932)*
Grades 11-12
3 credits per semester/3 periods per day

**ADVANCED CULINARY ARTS CAREERS**

**DUAL CREDIT**
*(0941) (0942)*
Grades 11-12
3 credits per semester/3 periods per day

**Prerequisites:** Successful completion of Nutrition and Wellness or Culinary Arts Foundations. Successful completion of Nutrition and Wellness 1 will be accepted as a prerequisite only with recommendation of instructor.

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 the National Restaurant Association ProStart Curriculum. You will get hands-on experience in all aspects of running a successful restaurant right here in our very own Threshold Restaurant. In the first year at the Threshold, you will focus on quantity food preparation and in the second year, you will learn about the fast-paced environment of a working restaurant.

Students that successfully complete each year of this program and pass the admission requirements are eligible for 3 credit hours of Ivy Tech college credit, six hours total. Students that successfully pass both years and meet internship requirements of 400 hours will also receive ProStart National Certification from the National Restaurant Association.

**EARLY CHILDHOOD EDUCATION 1-2**

**DUAL CREDIT**
*(1071) (1072)*
Grades 11-12
3 credits per semester/3 periods per day

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

What could be more fun than teaching young children while playing games? Preschool age children learn best while playing with things they are interested in – much like high school students. If you like to play with children then you could be a great Preschool Teacher! Early Childhood Education is all about learning how to teach children through practical experiences like playing games.

Students will be transported by bus to the Warren Early Childhood Center on a daily basis. They will split their time at ECC between the high school classroom and teaching in the preschool classrooms. They must be prepared to do all tasks necessary to the operation of a classroom, including household tasks. A dress code is required in the preschool classroom. Students who meet specified criteria will earn dual-enrollment credit from Ivy Tech Community College. A total of 9 credits may be earned and are free to qualifying students.

To receive dual credit, a student must have successfully completed Child Development and Advanced Child Development.

**EDUCATION PROFESSIONS 1-2**

**DUAL CREDIT**
*(1091) (1092)*
Grade 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.

Education Professions 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. Additional activities such as writing a resume, developing a portfolio and preparing for a job interview are used to prepare students for careers in education and/or related settings.

Education Professions students are placed in an elementary and/or middle school by their preferred subject area and/or grade level when possible by the high school supervising teacher and the elementary or middle school cooperating teacher. 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. Each participant must provide transportation.

The school reserves the right to reassign participants to a study hall if they are unwilling or unable to satisfactorily fulfill the obligations associated with the role of an “Exploratory Teaching” student. Dual enrollment is available with Ivy Tech Community College or Purdue University for 3 credits. Credits will be $25.00 per credit hour and must have a minimum GPA of 2.0.
The mission of Visual Art instruction among the Fine Arts is to create aesthetic awareness and technical skill which will engage life-long appreciation of and participation in the arts.

CERAMICS 1-2
(1311) (1312)  Grades 10-11-12
Students 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 10-11-12
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 I/1-2; (b) advanced glaze research; (c) advanced potter’s wheel pieces; and (d) hand sculpting.

DRAWING AND PAINTING 1-2
(1361) (1362)  Grades 9-10-11-12
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 10-11-12
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.

ADV. DRAWING AND PAINTING 5-6
(1401) (1402)  Grades 11-12
Prerequisite: Students MUST have completed 4 semesters of art classes and MUST have teacher recommendation.

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 canvases. 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 9-10-11-12
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 10-11-12
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, repoussé, engraving, findlings, 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 AND DIGITAL PHOTOGRAPHY
(5231) (5232)  Grades 11-12
Students MUST provide their own digital camera and MUST have teacher recommendation.

Have you successfully completed Media Arts I/1-2? Do you own your own digital camera? 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 9-10-11-12
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 10-11-12
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.

IMPORTANT
ONE SEMESTER OF INTRODUCTION TO 2-D ART MUST BE TAKEN BEFORE ANY OTHER FINE ARTS COURSE. FRESHMEN MAY ONLY TAKE 3-D ART SECOND SEMESTER.
ADVANCED LEVEL STUDENTS SHOULD SIGN UP FOR CLASSES IN THEIR CHOSEN DISCIPLINE AS EARLY AS POSSIBLE.
AP STUDIO ART  
(1561) (1562)  
Grades 11-12

An advanced level course designed for the serious and/or college bound art major. This course will concentrate on individualized instruction, helping students assemble college portfolios and prepare select students for meeting requirements for an Advanced Placement Exam at the end of the second year. 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 2/3 DIMENSIONAL ART  
(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.
**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.

### Class of 2016 and Class of 2017

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<thead>
<tr>
<th>Core 40 Sequence</th>
<th>Advanced Core Sequence</th>
<th>Excel/AP Sequence</th>
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<tr>
<td>Grade 9</td>
<td>Algebra I/1-2</td>
<td>Geometry 1 - 2</td>
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<td><strong>Grade 10</strong></td>
<td>Geometry 1 - 2</td>
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<td>Grade 11</td>
<td>Algebra II/3-4</td>
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<td>Grade 12</td>
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**This is a new sequence beginning 2013-2014 and it affects the Classes of 2016 and 2017.**

### Class of 2014 and Class of 2015

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### Junior/Senior Electives (P)

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<th>Dual Credit Courses</th>
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<tr>
<td>Adv. Modeling &amp; Analysis (1st only)</td>
<td>College Algebra &amp; Trig, Ivy Tech</td>
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<tr>
<td>Trigonometry (2nd only)</td>
<td>Calculus, Ivy Tech</td>
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<tr>
<td>Finite Math (1st only)</td>
<td>Statistics, Ivy Tech</td>
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<tr>
<td>Probability &amp; Statistics (2nd only)</td>
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<tr>
<td>Computer Programming</td>
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(P) - Prerequisites apply

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**ALGEBRA I/1-2**

(6451) (6452)

(6381) (6382)

**Grade 9**

Core 40

Grades 10-11-12

This course will cover all of the Indiana Common Core Standards for Algebra I/1-2. Major topics include solving linear equations, graphing functions, solving systems of equations, factoring polynomials, and working with quadratic equations. Students will take the End-of-Course Assessment (ECA) during second semester.

**ALGEBRA ENRICHMENT**

(6031)(6032)

**Grade 9**

Core 40

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.

**GEOMETRY 1X-2X**

(6511) (6512)

**Grade 9**

Core 40

Prerequisite: A passing grade on the Algebra I ECA in 8th Gr.

Participation in this course is by invitation only. This class will include topics covered in Geometry (6501-6502). Materials will be presented at a faster pace and additional topics included.

**GEOMETRY 1-2**

(6231) (6232)

**Grade 10-11-12**

Core 40

Prerequisite: Algebra I/1-2

This course will cover all of the Indiana Common Core Standards for Geometry. Major topics include congruency and similarity, measurement, analytic geometry, circles, and polyhedral. There is a heavy emphasis on the ability to develop formal mathematical arguments and proofs. Algebra I skills will be re-enforced throughout the course.

**GEOMETRY 1X-2X**

(6521) (6522) (Weighted)

**Grade 10**

Core 40

Prerequisite: Algebra II/3X-4X

Only students who have completed Algebra II/3X-4X, and have been invited to participate in this course will be enrolled. This class will include topics covered in Geometry (6501-6502). Materials will be presented at a faster pace and additional topics included.
### ALGEBRA II/3-4

**Core 40**  
(6411) (6413)  
**Grades 10-11-12**  
**Prerequisites:** Algebra I/1-2 & *Geometry*  
**Graphing Technology Required**

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. *Special permission could be granted for exceptional students to take Geometry and Algebra II concurrently.

### MATH LAB

(6002) 2nd Semester Only  
**Grades 10-11-12**  

This course is only intended for those students that fail their first semester math course and have not passed the Algebra I ECA. The course will cover all of the topics that are assessed on the Algebra I ECA. It is necessary to pass the Algebra I ECA to graduate.

### FINITE MATHEMATICS

**Core 40**  
(6621) 1st Semester only  
**Grades 11-12**  
**Prerequisites:** Algebra II/3-4 and Geometry 1-2  
**Graphing Technology Required**

This is a one semester course. Students will study the mathematics involved with counting techniques, matrices, recursion, graph theory, linear programming, and game theory.

### PROBABILITY AND STATISTICS

**Core 40**  
(6622) 2nd Semester only  
**Grades 11-12**  
**Prerequisites:** Algebra II/3-4 and Geometry 1-2  
**Graphing Technology Required**

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.

### ADVANCED MODELING & ANALYSIS

**Core 40**  
(6641) 1st Semester only  
**Grades 11-12**  
**Prerequisite:** A minimum of a C in Algebra II  
**Graphing Technology Required**

Expanding on the idea of function developed in Algebra II, this course will focus on the mathematical modeling of real life problems. Graphing technology will be utilized to find equations of best fit and these equations will be used to make predictions. Indiana Common Core standards will be covered.

### TRIGONOMETRY

**Core 40**  
(6642) 2nd Semester only  
**Grades 11-12**  
**Prerequisite:** Completion of Advanced Modeling & Analysis  
**Graphing Technology Required**

Trigonometry provides the foundation for common periodic functions that are encountered in many disciplines. This course will cover trigonometry topics with a concrete hands-on approach. There will be an emphasis on using technology such as graphing calculators and computers. Topics covered include solving triangles, trigonometric functions, and periodic functions.

### COLLEGE ALGEBRA & TRIGONOMETRY, ADV. MATH COLLEGE CREDIT

**Core 40**  
(6591) (6592) (Weighted)  
**Grades 11-12**  
**Prerequisites:** A minimum qualifying score on the placement exam or A’s and B's 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 trigonometry properties and theorems, and a study of polar coordinates.

### AP CALCULUS 1-2

**Core 40**  
(6611) (6612) (Weighted)  
**Grade 12**  
**Prerequisite:** An A in Pre-Calculus 1-2  
**Graphing Technology Required**

Students taking this course must have earned an A in Pre-calculus 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.

### CALCULUS 1-2, ADV. MATH COLLEGE CREDIT

**Core 40**  
(6651) (6652) (Weighted)  
**Grade 12**  
**Prerequisite:** An A or B in Pre-Calculus 1-2  
**Graphing Technology Required**

Students taking this course must have earned an A or B in Pre-Calculus 1-2 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.

### COMPUTER PROGRAMMING 1-2

(6711) (6712) (Weighted)  
**Grades 11-12**  
**Prerequisites:** Pre-Calculus 1-2 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 1-2 or should be taking Pre-Calculus 1-2 while enrolled in this course. Components of this course include: program design, program implementation, program analysis, data structures, algorithms, and computing in context.

### STATISTICS, ADV. MATH COLLEGE CREDIT

**Core 40**  
(6631) (6632) (Weighted)  
**Grade 12**  
**Ivy Tech Dual Credit**  
**Prerequisite:** Pre-Calculus 1-2  
**Graphing Technology Required**

This course is a rigorous college-level statistics course. Some topics covered will be gathering and exploring data, randomness, probability, sampling, and regression.

\[ (a + b)^2 = a^2 + 2ab + b^2 \]
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

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 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 go out 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 SYMPHONIC BAND/BRASS

Grades 9-10-11-12

This will include the following instruments: trumpet, french horn, trombone, baritone, and tuba.

Membership is by audition during the prior spring semester for specific instrumentation or by director special permission. The group performs Group II and III level music of moderate difficulty. Some time will be devoted to marching band literature. Members must attend concert performances, contests, pep band and limited extra rehearsals outside of the school day. A minimal membership fee is charged for uniforms. Private lessons and participation in solo and ensemble is encouraged. 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.

INTERMEDIATE SYMPHONIC BAND/WOODWINDS

Grades 9-10-11-12

This will include the following instruments: flute, oboe, bassoon, clarinet, and saxophone.

Membership is by audition during the prior spring semester for specific instrumentation or by director special permission. The group performs Group I and II level music of difficulty. Some time will be devoted to marching band literature. Members must attend concert performances, contests, pep band and extra rehearsals outside of the school day. A minimal membership fee is charged for uniforms. Private lessons and participation in solo and ensemble is 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.

MARCHING BAND/PERCUSSION

Grades 9-10-11-12

Marching Band participation is required.

The marching percussion is a group of percussionists (Snare, Quad, Bass Drum, Mallets, Timpani and Auxiliary) who are members of the Gold Brigade Marching Band. Membership is by audition during the spring semester for specific instrumentation. The group performs the marching show music although some time will be devoted to non-marching band literature. Members must attend performances, contests, pep band and extra rehearsals outside of the school day. A minimal membership fee is charged for uniforms. All marching band percussionists must pay the $17.50 instrumental rental fee.
DANCE PERFORMANCE
(1751) (1752)  Grades 9-10-11-12
Students are required to purchase performance shoes/ unitards.

Membership is open to any student and determined by audition in the spring of 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" Marching Band 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 on the basketball court. 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.

INTERMEDIATE ORCHESTRA/CONCERT
(1631) (1632)  Grades 9-10-11-12

Students who have prior training on an orchestral string instrument are eligible for membership in Concert Orchestra. Emphasis is placed on developing good performance skills and preparing students for membership in Symphony Orchestra. Members must attend occasional extra rehearsals and performances. The Orchestra boosters club provides concert attire. A uniform maintenance fee is charged.

ADVANCED ORCHESTRA/ SYMPHONY
(1641) (1642)  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. Incoming freshmen string players who wish to be considered for membership in Symphony Orchestra must attend summer classes at Warren Central. 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 serious to pops throughout the year. Emphasis is placed on achieving the highest performance standard possible. The Orchestra boosters club provides concert attire. A uniform maintenance fee is charged. 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 sectional practices are required as well as all performances.

CHOIR

BEGINNING CHORUS/ FERMATA
(1831) (1832)  Grades 9-10-11-12

This choir 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.

INTERMEDIATE CHORUS/ BOYS OF HARMONY
(1851) (1852)  Grades 9-10-11-12

This choir 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 CHORUS/ BELLA NOTE
(1771) (1772)  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. Extra rehearsals and a yearlong commitment are required for participation in this group. Audition is required for placement.

ADVANCED CHORUS/ CHAMBER SINGERS
(1871) (1872)  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. A few extra rehearsals are required for participation in this group. An extensive audition is required for placement.

ADVANCED CHORUS/ CONNECTIONS
(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 yearlong 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 CHORUS/ HI-LITES
(1871) (1872)  Grades 10-11-12

This ensemble is the top ensemble for only sopranos and alto women. 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 yearlong 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.
OTHER MUSIC ELECTIVES

PIANO & ELECTRONIC KEYBOARDING I/1-2  
(1911) (1912)  
Students are required to provide head phones.

This course instructs beginning students in the fundamentals of the piano keyboard. No previous musical experience is required. Basic fundamentals of music are learned. Each student has an electronic keyboard for individual use. Students may be required to participate in a recital.

PIANO & ELECTRONIC KEYBOARDING II/3-4  
(1921) (1922)  
Students are required to provide head phones.

Piano & Electronic Keyboarding II/3-4 are courses designed for the student who has successfully completed Piano & Electronic Keyboarding I/1-2 or has had private keyboard study and can perform at an intermediate to advanced level. Music reading and knowledge of fundamental music theory are required. Students may be asked to participate in a recital. *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

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.

First semester AP Music Theory is a prerequisite for semester two, which deals with melody and part writing, and musical analysis. Second semester also focuses on student composition. This course is chiefly designed for students planning on studying music in college. Class entrance is determined by pre-testing, demonstrating music reading and performing proficiency.

MUSIC HISTORY AND APPRECIATION 1-2  
(1961) (1962)  
Grades 10-11-12

Students are expected to understand and respect music and the fine arts; know and discuss important issues related to music and the fine arts; understand the social uses of music and to value music accordingly. Students will also respond emotionally and intelligently to a wide range of music representative of many styles and cultures. They will also recognize music as an important marker of its time and culture while acquiring an overview of their own musical heritage and learn why music is an essential ingredient of all human cultures.

THEATRE

THEATRE ARTS I/1-2  
Introduction to the Concepts of the Stage  
Students are required to provide head phones.

This is a beginning level drama course open to all students. This class is a survey course of the many 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 costume for a play. Students will read several plays throughout the year and focus on plot and character development. While this class is not a performance-based course, students will learn about the acting process and be asked to perform in front of the class at various times throughout the year. Second semester is a continuation of first semester and will focus more closely on acting and performance. A passing grade semester one is required in order to continue the course semester two. Students who desire placement in the advanced theatre classes should take Theatre Arts I.

THEATRE PRODUCTION II/1-2  
Intermediate 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 and extensive audition.

This course is open to students who have successfully completed and passed both semesters of Theatre Arts I/1-2 or who have been granted permission by the instructor to take part in the audition process. Students will learn the beginning concepts of acting on stage, such as voice and vocal projection, movement, audition technique, and character development. Students may be required to participate in one after-school performance each semester that will require some after school rehearsal time. This class will also work on auditioning skills for the theatre season at Warren.

Second semester is a continuation of the first semester with the focus on one or more acting methods. Students will begin to study Shakespearean acting, improvisation and mask work. Students will also learn about various aspects of theatre production and design.

ADVANCED THEATRE ARTS I/1-2  
Advanced Acting  
(2021) (2022)  
Grades 10-11-12  
Prerequisite: Passing grades in both semesters of Theatre Arts I/1-2 as well as extensive audition or instructor permission and extensive audition.

This course is open to students who have successfully completed Theatre Arts I/1-2. Theatre Production II/1-2, and/or 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 that will involve some after school rehearsals. This class will also work on auditioning skills for the theatre season at Warren.

Second semester is a continuation of the first with greater emphasis on preparing for acting and theatre at the college and professional level.

TECHNICAL THEATRE I/1-2  
(2061) (2062)  
**Requires 30 hrs 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, 30 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 11-12  
Prerequisite: Technical Theatre I/1-2 and teacher approval.  
**Requires 50 hrs 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.
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 Graduation Requirement (9401) (9402) (One full credit per semester) Grade 9

This course provides an opportunity for each student to improve their over-all level of fitness while participating in a variety of sports, recreational and fitness focused activities. Students will learn about the principles of training, the components of health-related fitness and the importance of being physically active. Evaluation will be based on daily preparation and participation, review of sport-folio requirements, fitness testing data and written assessments. There is also a 4-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 IHSAA sports, cheerleading, MJROTC, marching band or color guard.

ADAPTED PHYSICAL EDUCATION 1-2 Graduation Requirement (9411) (9412) (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 students’ 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) (One full credit per semester) Grades 9-12

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. 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) (Fall semester) Grades 10-11-12

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.

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 participating in games and sports that are traditional and non-traditional, fitness based activities that include the 5 main components of fitness, and fitness levels will be assessed as students learn and develop a path to an active and fit lifestyle.

LIFEGUARD TRAINING (9442) (Spring semester) Grades 9-10-11-12

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.

ATHLETIC WEIGHTS Grades 10-11-12

(9551-9552) 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, conditioning as it pertains to athletic competition. The class is designed to weight train three to four days a week with conditioning and agility on the off days.

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. If the contract is broken, the athlete will be removed and placed in a study hall.

*A 9th 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

Graduation Requirement
(9301) (One semester) (9302) Grade 10

The following 7 Indiana Health Education Standards will be the focus of instruction in our Health Education classes:

1. Students will comprehend concepts related to health promotion and disease prevention.
2. Students will demonstrate the ability to access and evaluate health information, products, & services.
3. Students will demonstrate the ability to analyze the influence of family, culture, peers, community, media, and technology on health and health behaviors.
4. Students will demonstrate the ability to apply self-management skills to enhance health.
5. Students will demonstrate the ability to utilize interpersonal communication skills to enhance health.
6. Students will demonstrate the ability to implement decision-making and goal setting skills to enhance health.
7. Students will demonstrate the ability to advocate for personal, family, and community health.

HEALTH EDUCATION ELECTIVES

CPR/FIRST AID
(9451) (One semester) (9452) Grades 10-11-12

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.

FUNDAMENTALS OF ATHLETIC TRAINING
(9501) (One semester) (9502) Grades 10-11-12

This course is designed to instruct the student in the care, prevention, treatment, and rehabilitation of athletic injuries. Training will not only be in the classroom, but will also be on the court or in the field dealing with actual athletic injuries. If a student elects, he/she can spend additional time after school to deal with various athletic injuries. Purchase of a text is required along with a charge for training supplies.

ADVANCED ATHLETIC TRAINING
(9512) (Spring semester) Grades 10-11-12

Prerequisites: Completion of Fundamentals of Athletic Training or teacher recommendation.

For the student more serious about sports medicine, this class will consist of additional information using the basic athletic training class as a foundation. Primary focus will consist of rehabilitation concepts, training and conditioning, nutrition, pharmacology and exercise. Additional taping and bandaging practice will also be included. Purchase of a text is required along with a charge for training supplies. Students must have a ‘C’ average minimum to enroll in the adv athletic class or the approval of the instructor/department chair.
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 & 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 & 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 Club and Earth Team Club are sponsored through the science department. Academic competitions such as science fairs, Science Olympiad, and Envirothon are available for interested science students. Students also may participate in student science symposia such as the Indiana Junior Science Academy, and the Indiana Junior Science and Humanities Symposium. Students may also participate in the annual Warren Central High School Science Symposium. Students are encouraged to participate in various science demonstration activities sponsored by WCHS and professional science organizations active in the metropolitan area of Indianapolis.

**Science Overview**

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

**Advanced Science College Credit/BIOLOGY**

(7911) (7912) (Weighted)

**DUAL CREDIT**

Grades 11-12

Prerequisites: Biology I/1-2, Chemistry I/1-2

(C or higher recommended in Chemistry I/1-2, B or higher in Biology, have passed the ECA's)

***Enrollment is a FULL-YEAR commitment.

Advanced Science College Credit/Biology is a course that provides students with the content established by ACP. Topics include: (1) molecules and cells (2) heredity and evolution (3) organisms and population. Students wishing to take AP Biology must be self-motivated, have the desire to do college level work and be willing to commit extra-curricular hours that college level classes require. Additional labs will be required.

Students may register for college credit in this course by recommendation of the ACP Biology teacher. 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.

**BIOLOGY I/1-2 Life Science**

(7221) (7222)

(7201) (7202)

**Grade 9**

**Grades 10-11-12**

Biology I/1-2 provides, through coursework, laboratory, and field 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 I/1X-2X Life Science**

(7211) (7212)

**Prerequisites: Dual Enroll in Alg. II/3-4 or Alg. II/3X-4X**

***Enrollment is a FULL-YEAR commitment.

This course explores the functions and processes of cells at a molecular level, tissues, organs, and systems within various species of living organisms and the roles and interdependencies of organisms within populations, communities, ecosystems, and the biosphere.

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. The student will experience research activities, computer problem solving and laboratory experiments.

**ADV. SCIENCE/ANATOMY & PHYSIOLOGY 1-2**

(7611) (7612) (Weighted)

Prerequisites: Biology I/1-2, Chemistry I/1-2

Grades 11-12

(C or higher recommended in Chemistry I/1-2) Life Science

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 and guest will be used whenever possible to enhance the understanding of the units. Related career surveys will also be included.

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 with digestion, respiration, circulation, immunity, excretion and reproduction. The course will conclude with an overview of embryology, development and aging.
ADV. SCIENCE/HUMAN GENETICS  
(7631) (One semester) (7632)  
Grades 11-12  
Prerequisites: Biology I/1-2 & Chemistry I/1-2  
Life Science or concurrently enrolled in Chemistry I/1-2  
(C or higher recommended in Chemistry I/1-2)  

This course emphasizes the application of genetic principles to human inheritance. Special attention is given to current advancements in human genetics in the areas of the human genome project, genetic diseases, birth defects, genetic screening and counseling, social, ethical and legal considerations, and career opportunities. Laboratory techniques will include microscopy, making karyotypes, electrophoresis, probabilities, pedigrees and computer problem solving.

ADV. SCIENCE/MARINE BIOLOGY  
(7621) (One semester) (7622)  
Grades 11-12  
Prerequisites: Biology I/1-2  
Life Science or concurrently enrolled in Biology I/1-2  
(C or higher recommended in Biology I/1-2)  

Students will study marine plants and animals, ocean ecology, aquarium science, information about SCUBA diving, human impact on the ocean environment, and career opportunities in ocean science and technology. Laboratory work will include microscopy, animal dissection, the set-up, maintenance, and observation of a marine aquarium, culturing various plants and animals, and computer problem solving.

ADV. SCIENCE/ZOOLOGY  
(7641) (One semester) (7642)  
Grades 11-12  
Prerequisites: Biology I/1-2 & Chemistry I/1-2  
Life Science 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 phylogenic 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.

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. (see page 23)

PRINCIPLES OF BIOMEDICAL SCIENCE 1-2  
(7241) (7242)  
DUAL CREDIT  
Grades 10-11  
Prerequisites: 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.

HUMAN BODY SYSTEMS 1-2  
(7451) (7452)  
DUAL CREDIT  
Core 40  
Grades 11-12  
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.

MEDICAL INTERVENTION 1-2  
(7461)(7462)  
DUAL CREDIT  
Grades 11-12  
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.

BIOMEDICAL INNOVATIONS 1-2  
(7251) (7252)  
DUAL CREDIT  
Grade 12  
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.

CHEMISTRY I/1-2  
(7401) (7402)  
Core 46  
Grades 10-11-12  
Prerequisites: Biology I/1-2 & Algebra I/1-2 or College Credit/Advanced Modeling and Analysis (C or higher required in both prerequisites)  

It is strongly recommended having passed Math ECA. If passing Chemistry I/1, may not take ICP 2nd semester. MUST HAVE PASSED THE MATH ECA’s if a JR or SR

Chemistry I/1-2 is the study of the composition of substances and changes in composition, which these substances undergo. Students will study particles of matter including the elements, compounds and mixtures that constitute the things about us. 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) cope with chemical questions and problems related to personal needs and social issues, and (4) learn and practice laboratory safety. Strongly recommend having passed Math ECA.
CHEMISTRY I/1X-2X  
(7111) (7112) (Weighted) 
Prerequisites: Algebra II/3-4(3X-4X) 
Core 40  
Grade 10  
Prerequisites: Algebra I/1-2(1X-2X) 
Chemistry I/1X-2X contains the same curriculum topics as Chemistry I/1-2 plus organic and biochemistry units. 
10th grade students who have been recommended from 9th grade science and have completed Algebra II/3-4 in the 9th grade may take Chemistry I/1X-2X. 
Enrollment is a dual credit chemistry course is expected at the conclusion of this course. 

AP CHEMISTRY  
(7421) (7422) (Weighted)  
Advanced Science College Credit/ Chemistry  
(7431/32)  
DUAL CREDIT  
Grades 11-12  
Prerequisites: Algebra II/3-4, or College Credit Algebra and Trigonometry, Chemistry I/1-2  
(C or higher recommended) 

*** 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 course require. Additional lab sessions will be required. 

Students may register for college credit in this course by recommendation of the Chemistry II/3-4 teacher. This course provides students with an opportunity to obtain college credit at I.U. and high school credit simultaneously. Students will take the ACP or AP Chemistry Exam in the spring of the school year. 

To be enrolled for Dual Credit, student must be in upper 50% of class, GPA of 2.5 on 4.0 scale, combined SAT of 1000 (CR=M) or above state average, or ACT composite of 22 & high school endorsement. Student s must enroll in one of the courses. 

INT. CHEMISTRY(Sem 2)/PHYSICS(Sem 1) 1-2  
(7901) (7902)  
Prerequisites: Algebra I/1-2 (B-/higher 10) or (C-/higher 11/12)  
Core 40  
Grade 10-11-12  
Prerequisites: Algebra I/1-2  
Physics concepts are covered 1st semester and Chemistry concepts are covered 2nd 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 course work in chemistry or physics while ensuring a mastery of the basics of chemistry & physics. The ultimate goal of the course is to produce scientifically literate citizens capable of using their knowledge of physical science to solve real-world problems and to make personal, social, & ethical decisions that have consequences beyond the classroom walls. 

EARTH & SPACE SCIENCE 1-2  
(7301) (7302)  
Prerequisites: Biology I/1-2  
Core 40  
Grade 10-11-12  
Prerequisites: Biology I/1-2  
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. 

PHYSICS 1/2  
(7501) (7502)  
Core 40  
Grade 11-12  
Prerequisites: Algebra II/3-4 (C or higher) 

If passing Physics I/1, may not take ICP 1st semester. 
High school level instruction and text. 

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. 

Advanced Science College Credit, PHYSICS I /1-2  
Core 40  
(7511) (7512) (weighted)  
DUAL CREDIT  
Grades 11-12  
Prerequisites: Algebra II/3-4 (C or higher), Pre-Calculus 1-2 or College Credit/Algebra and Trigonometry or concurrently enrolled in Pre-Calculus 1-2 or College Credit/Algebra and Trigonometry 

If passing Physics I/1, may not take ICP 1st semester. 

Same course description as Physics but will be taught for dual credit. This course is recommended for juniors and seniors who are going to college. . 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 will be required . 

*** Enrollment in this course is a FULL-YEAR commitment. Students will not be allowed to drop this course for another credit course. 

AP PHYSICS (7521) (7522) (Weighted) 
Advanced Science College Credit/PHYSICS II  
(7531) (7532) (Weighted)  
DUAL CREDIT  
Both courses are Core 40 and Grade 12  
Prerequisites: Physics I/1-2 (C or higher recommended)  
Calculus taken simultaneously  
Admission by teacher recommendation 

*** Enrollment in this course is a FULL-YEAR commitment. 

Physics, AP 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 may register for college credit in this course by recommendation of the Physics II teacher. This course provides students with an opportunity to obtain college credit at I.U. and high school credit simultaneously. Students will take the ACP or AP Physics Exam in the spring of the school year. 

Students must register for one of the two dual credit choices offered in Physics.
SCIENCE RESEARCH & IND. STUDY  
Sci. Elective  
(7801) (One semester) (7802)  
Grades 11-12

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 full time science research program in the summer also qualify. Approval by Science department chair and lead research teacher, Linda Monroe.

SCIENCE TUTORIAL  
Science Elective  
(7791) (One semester) (7792)  
Grade 12  
Prerequisites:  Approval of science department chairperson

The objective of this course is to encourage students to select science as a career. This course is designed for advanced senior science students. Study will be arranged through a faculty advisor with the student. The student selection process will include GPA evaluation, teacher recommendation and student motivation. Curriculum is developed with a high school faculty advisor and/or approved adult mentor. Students may elect to conduct studies off campus through approved college or university program. Student will contract for grade. At this time, students will be directed to Science Research (7801).
**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.

<table>
<thead>
<tr>
<th>Grade 9</th>
<th>CORE 40 Diploma (Required)</th>
<th>CORE 40 with Academic Honors (Options)</th>
</tr>
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<tbody>
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<td>World History/Civilizations 1-2 OR Geography/History of the World 1-2 <em>(Grades 9 or 10)</em></td>
<td>Geography/History of the World 1X-2X</td>
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<tr>
<td></td>
<td>*AP World History 1-2</td>
<td>*AP US History 1-2</td>
</tr>
<tr>
<td>Grade 10</td>
<td>US History 1-2</td>
<td>*AP Psychology 1-2 <em>(Grade 11 or 12)</em></td>
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Grade 12

- US Government
- AND Economics
- *AP US Government & Politics
- *AP Macroeconomics

**Electives**

- Ethnic Studies *(Grades 10-12)*
- International Relations *(Grades 11-12)*
- *Philosophy 1-2 *(Grades 11-12)*
- Psychology *(Grades 11-12)*
- Sociology *(Grades 11-12)*

**WARREN CENTRAL HIGH SCHOOL SOCIAL STUDIES GOALS**

The Social Studies curriculum at Warren Central High School is one of the more comprehensive in the state of Indiana. Social Studies courses include areas in Political Science, Economics, History, and Behavioral Science. The curriculum offers many areas of interest for all academic levels. With public education being recognized as a major means to perpetuate a free and open society, this places a special importance on Social Studies.

**GOALS:**

1. Understanding fundamental concepts and terminology of social studies, enabling students to organize content in meaningful fashion.
2. Establishing an appreciation of the interrelationship of all disciplines. All aspects of human endeavor are interrelated.
3. Training in critical thinking skills. Critical thinking skills are such as analyzing, hypothesizing, problem solving, research and information gathering.
4. Applying knowledge of the world to decision-making and problem solving. This information includes the use of gathering, processing, listening, and other communication skills. These skills involve the basic ability to communicate in written, graphic, and oral forms.
5. Developing good citizenship and patriotism. A demonstration of the knowledge, appreciation, and commitment that is necessary to behave effectively in a national context.
6. Becoming aware of religion and recognizing the impact on cultural and value structures in various societies.
7. Understanding and appreciating the role of the family in the development and perpetuation of American culture.
8. Understanding the principles of capitalism and other economic systems of the world.
9. Acquiring knowledge of significant developments in human history. It is impossible to understand the modern world and to act intelligently upon the problems, which confront it, without an appreciation of those events of the past that have shaped the present.
10. “Reason dictates the human progress and survival rest upon understanding and acceptance.”
11. Developing knowledge and an understanding of the physical geography of the world
12. Recognizing the importance of ecology and conservation in meeting the needs of the world
13. Realizing the interdependence of nations and peoples in today’s world. A demonstration of the knowledge, appreciation, and commitment that is necessary to behave effectively and responsibly in a global context.
14. Recognizing and appreciating the concept of a changing world. A world with complex and changing social, political, and economic systems needs educational programs that will help young people to anticipate and prepare for these changes.
15. “Respect for the dynamic and ever changing diversity of this country is at the heart of all Social Studies Instruction. Every class will include curriculum content that stresses respect for diversity...”

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GEOGRAPHY/HISTORY OF THE WORLD 1-2

Core 40
Grade 9
(8321) (8322) (8301) (8302)

This course explores the Five Themes of Geography: location, place, regions, movement, and human & environmental interactions, as well as introductory vocabulary, map skills, climate zones, cultures of the world, economic systems, and the history of each region. Topics include the United States, Canada, Latin America, Europe, the Middle East, Africa, South Asia, East Asia, Australia, and Antarctica.

A student should have completed Geography/History of the World 1 to be enrolled in Geography/History of the World 2.

GEOGRAPHY/HISTORY OF THE WORLD 1X-2X

Core 40
Grade 9
(8311) (8312)

Geography/History of the World 1X-2X is a two-semester advanced course that explores contemporary world politics, culture, history, religion, and language throughout the regions/countries of the world. In addition, there is a focus on current happenings and events around the globe. The first semester is devoted to the U.S., Canada, Latin America, Europe including Russia, and the Middle East. During the second semester, the focus is on Africa, Asia (India, China, Japan, and Southeast Asia) and Australia/Oceania. In addition, the students will read two novels as part of the course curriculum.

WORLD HISTORY/CIVILIZATION 1-2

Core 40
Grade 9
(8221) (8222) (8201) (8202)

This course will provide a study of world cultures past and present, the rise and fall of civilizations, their contributions, differences and similarities of each, the development of the main features of civilization, i.e. government, society, philosophy, religion, wars, culture, and the interaction of the world's people. The first six weeks will be devoted to a review of the ancient and medieval time. The balance of the course will focus on the modern world – 1600AD to present.

AP WORLD HISTORY 1-2

Core 40
Grade 10
(8231) (8232) (8201) (8202)

Enrollment in this course is a FULL-YEAR commitment.

The purpose of this two-semester Advanced Placement World History course is to develop greater understanding of the evolution of global processes and contact in different types of human societies, advanced through a combination of factual knowledge and analytical skills. The course highlights the nature of changes in global frameworks and comparisons among major societies. Students will be expected to analyze the processes and causes involved in continuity and change. Five major themes (environmental and human interaction, development and interaction of cultures, state-building, economic systems, and social structures) will be explored in each of five major chronological eras covering from 8000 B.C.E. to the present. An accelerated textbook will be used, providing students with the opportunity to complete college-level coursework in a high school setting.

This course is recommended for students who desire accelerated learning. Students will take the College Board AP test for college credit.

UNITED STATES HISTORY 1-2

Core 40
Grade 11
(8401) (8402)

Both semesters of the course deal with the political, economic, and social developments of the United States of America. Although the first semester of this class will pay homage to the eras of colonization, colonialism, revolution and the early national period, the main emphasis of the course will be on the pre-twentieth century development of America at the turn of the century and the first three decades of the twentieth century. Second semester will start with the stock market crash of 1929 and the Great Depression and continue to focus on the major trends of the twentieth century. A special effort will be made to finish the second semester by covering material that takes students right up to the present day.

AP UNITED STATES HISTORY 1-2

Core 40
Grade 11
(8421) (8422) (Weighted)

Enrollment in this course is a FULL-YEAR commitment.

The purpose of this two-semester Advanced Placement course centers on the America experience from exploration and discovery through to the present day. Students will use an accelerated U.S. History textbook, plus primary and secondary material dealing with topics as: the Puritan ethic, Jacksonian America, sectionalism and nullification controversies in the period leading up to the Civil War and the Reconstruction Era. 20th 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 class is for college bound students who want to prepare for the rigors of the higher education classroom. Students should have a sincere interest in history, a willingness to read outside of the textbook, and the ability to discuss and write about issues in a critical manner. The course fulfills graduation requirements of two credits in U.S. History.

Students may register for this course by recommendation of their English 10 or World History/Geography teacher. Students enrolled in this course will take the College Board AP US History test in the spring.

SOCIOLOGY

Core 40
(8621) (One semester) (8622)
Grades 11-12

Sociology provides an opportunity for the student to study society, its morals and values, the components it incorporates, and its basic institutions. Society as it relates to current events is the central motivation of the course, involving topics such as racism, economic opportunity, crime, and status. Within each specific area of concern, the social institutions of family, school, work, religion, and occupation of free time will be addressed. Other ideas specific to adolescent society will also be key with the inclusion of topics such as juvenile justice, dating, deviance and sociological development.

PHILOSOPHY 1-2

Core 40
(8651) (8652) (Weighted)
Grades 11-12

Those junior or senior students who enjoy discussing the nature of man, morality, concepts of God, civil liberty, human existence, ideal government, or the problems of the individual and society study this course. Students are expected to listen and read critically, to search for assumptions to discuss ideas objectively, and to analyze logically all thought. (Full year course)
This is an introductory Psychology course with emphasis on topics such as: Introductory Vocabulary, Biology of the Brain, Dreams, Sensation & Perception, Learning & Conditioning, Social Psychology, Memory, Personality, Life Span Development, Diseases & Disorders, and Treatment & Therapy.

There is also a required semester research project and weekly current events discussions. This course is taught using a textbook, video clips, guest speakers, and class lectures & discussions.

**AP PSYCHOLOGY 1-2**
(8631) (Weighted) (8632)
Grades 11-12

Enrollment in this course is a FULL-YEAR commitment.

This Advanced Placement two-semester course is an investigative approach to college psychology with emphasis on critical thinking, essay writing, class discussions, independent research projects, supplemental reading, and scientific experiments.

Attention will be given to topics such as: History of Psychology, Famous People, Careers, Statistics, Critical Thinking, Neuroscience & the Brain, Human Diversity, Life Span Development, Sensation & Perception, States of Consciousness, Learning, Memory, Thinking & Language, Intelligence, Motivation, Emotion, Stress & Health, Personality, Diseases & Disorders, Treatment & Therapy, Social Psychology, and current events topics.

Students may register for this course by recommendation of their World History/Geography or English 10 teacher. Students enrolled in this course will take the College Board AP Psychology test in the spring. Enrollment in this course is a full-year commitment.

**UNITED STATES GOVERNMENT**
(8701) (One semester) (8702)
Grades 12

This course deals with national, state, and local government. Treatment is given to the following topics: world political systems, the United States Constitution, Congress, the Presidency, the federal courts, American politics, state and local government civil rights, and civil liberty.

**AP UNITED STATES GOVERNMENT & POLITICS**
(8721) (One semester) (8722) (Weighted)
Grades 12

This course deals with modern political and economic systems, the Constitution, federalism, American politics, the Congress, the Presidency, the federal courts, state and local governments, and basic fundamental freedoms. A college level textbook will be used with supplemental reading and materials. AP United States Government & Politics will fulfill the state requirement for one credit in American Government for graduation. Students enrolled in this course will take the College Board AP Government test in the spring.

**ECONOMICS**
(8711) (One semester) (8712)
Grades 12

Economics is a class that provides practical economic information for seniors preparing to graduate. The course will focus on taxation, consumption, exchange and distribution of goods, economic problems and comparative studies of economic, political and governmental systems. Although this course is taught in a highly academic setting, there will be many “hands-on” activities that teach the principles of consumer economics.

**AP MACRO ECONOMICS**
(8731) (One semester) (8732) (Weighted)
Grades 12

The purpose of an AP course in Economics is to teach many of the same principles and concepts stressed in the standard "Economics" class, but in an accelerated and in-depth fashion. Students should anticipate a challenging curriculum that moves at a faster pace and leaves time for discussion and special segments. The AP Macro Economics course also provides, to students of high ability, the opportunity to earn college credit in Economics while still in high school. AP Macro Economics will fulfill the state requirement for one credit in Economics for graduation. Students enrolled in this course will take the College Board AP Macro Economics test in the spring.

**ECONOMICS OF BUSINESS & FINANCE**
(8751) (One semester) (8752)
Grades 12

This course replaces the standard Economics graduation requirement for those students participating in the Finance Academy, Entrepreneurship Academy, and IT Academy. This class will detail the experiences of taxation, consumption, production and exchange of goods, distribution and comparative economic and political systems. There will be a special emphasis on business and finance and students will interact with representatives of local businesses and financial institutions.

**ETHNIC STUDIES**
(8511) (One semester) (8512)
Grades 11-12

This course will help students recognize and respect ethnic diversity and foster positive multiethnic interaction. Ethnicity will be defined and ethnic pluralism as it exists in American Society will be studied.

**INTERNATIONAL RELATIONS/MODERN WORLD CIVILIZATIONS**
(8801) (8802) (Weighted)
Grades 11-12

The IR/MWC 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 negotiating 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. (Full year course)
**SPECIAL EDUCATION DEPARTMENT**

The mission of the Special Education Department is to provide students with disabilities a continuum of inclusive services that will assist and encourage them to become productive citizens.

*SPECIFIC CLASS ASSIGNMENT/COURSE NUMBERS WILL BE DETERMINED IN SPRING CASE CONFERENCE.*

### BUSINESS BASICS 1-2  
**Grades 9-10-11-12**

This special keyboarding course provides students with special needs an opportunity to develop keyboarding and word processing skills using the computer. Students will learn to produce documents, use the Internet, power point, and e-mail.

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

This is a remedial English course that places an emphasis on basic English and language skills. Students will work on improving their reading, vocabulary, spelling, grammar, speaking, listening and writing skills. The focus will be on the Indiana academic standards.

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

This is a developmental, remedial reading course designed to improve reading skills. Emphasis is placed on developing word attack, fluency, comprehension, vocabulary, and critical reading skills.

### MATHEMATICAL PROBLEM SOLVING  
**Grades 9-10-11-12**

Students in this course will further their understanding of addition, subtraction, multiplication, and division of whole numbers, fractions, and decimals using a problem solving approach. Calculator use will facilitate the study of topics including number theory, estimation, measurement, consumer mathematics, and basic geometry. The focus will be on the Indiana Academic Standards.

### BIOLOGY  
**Grades 9-10**

Students in this course will study the structures and functions of living organisms and their interaction with the environment.

### UNITED STATES HISTORY  
**Grade 11**

Students in this course will further their understanding of the political, economic, and social developments of the United States. Topics of study will include colonialism, the American Revolution, the Constitution, creation of the federal government, nationalism, sectionalism, Jacksonian reform, expansion, the Civil War and Reconstruction, industrialization, the United States as a world power, progressive reform and social change, World War I, the Great Depression, World War II, world leadership, and domestic prosperity and reform. A special effort will be made to take students right up to the present. Current events will be emphasized.

### UNITED STATES GOVERNMENT  
**Grade 12**

Students in this course will further their understanding of national, state, and local government. Topics of study will include the United States Constitution, the Presidency, Congress, state and local government, the courts, American politics, civil rights, and civil liberties. Current events will be emphasized.

### ECONOMICS  
**Grade 12**

Students in this course will further their understanding of the basic concepts of economics as they will experience them in their daily lives as consumers and producers. Topics of study will include: taxes, banking, insurance, supply and demand, budgeting, credit, labor and management, and economic systems. Current events will be emphasized.

### HEALTH  
**Grade 10**

In this course students will be encouraged to develop positive health attitudes and habits. Topics of study will include: basic anatomy, reproduction, personal hygiene, nutrition, exercise, first aid, diseases, and drug education. Current events will be emphasized.

### VOCATIONAL DEVELOPMENT  
**Grades 11-12**

The objective of this course is to provide students with hands-on job training and work experiences. Job search skills, work habits and attitudes, work relationships, and specific job skills will be addressed. This is a work-study program that provides on the job training.
The World Language Department mission is to teach the students the skills of reading, writing, speaking, listening, and understanding the culture within the chosen language.

ALL COURSES MAY BE USED TO MEET ACADEMIC HONORS DIPLOMA REQUIREMENTS

The World Language Department offers Chinese, German, Japanese, Latin and Spanish. There is an Advanced Placement course in the Spanish and Japanese languages that are offered as a fifth level course in Spanish and a fourth level course in Japanese. 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

This course can be taken 1st and/or 2nd 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 meanings 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.

The first semester of this course focuses on Latin elements that appear in the majority of English Words. The second semester concentrates on Greek elements, using memorization, word-formation rules, analysis techniques, and discussion of usage in order to decode unfamiliar words. In addition, the student will learn and use test-taking strategies to help improve performance on the ACT and SAT.

This academic class is recommended for college bound 11th and 12th grade students who have demonstrated a high level of academic performance.

**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

Admitted with instructor permission.

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 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

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  

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, and 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 has as its objectives 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 knowledge of Roman culture, life styles, 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 integrates the skills of listening, speaking, reading, and writing 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 skill. 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 situation. 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)  
Dual Credit Course  
Grades 11-12  

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 travel brochure first semester and a Hispanic holiday project second semester. 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.

CHINESE I/1-2  
(4851) (4852)  
Grades 9-10-11-12  

This course introduces students to standard, modern Mandarin Chinese. Using an audio-lingual (Rosetta Stone program) approach, this course teaches pronunciation, vocabulary, and grammar fundamentals as essential elements in reading, writing and understanding elementary Chinese. The course also covers necessary culture, customs, philosophy and history which serve as keys to studying the Chinese language.

CHINESE II/3-4  
(4861) (4862)  
Grades 10-11-12  

This course is a continuation of Chinese I and covers the elementary grammar. It includes the reading of simplified texts with emphasis on oral expression and further study of Chinese history and culture. Students who complete this course should be able to discussion on topics of daily life, understand more complicated sentences and write short compositions.
<table>
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<th>COURSE NUMBERS</th>
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### BUSINESS TECHNOLOGY
- 2411 ACCOUNTING 1-2
- 2421 ACCOUNTING 3-4
- 2601 BUSINESS & LAW ETHICS
- 2511 BUSINESS MANAGEMENT
- 2641 BUSINESS MATH 1-2
- 2241 COMP ILLUS & GRAPHICS
- 2621 COMPUTER PROG 1-2
- 2981 DENTAL CAREERS
- 2221 DIGITAL CITIZENSHIP
- 2101 DISCOVER BUS & MARKETING
- 2931 ENTREPRENEURSHIP AND NEW VENTURES
- 2941 FINANCIAL SERVICES INTRO
- 2911 FINANCIAL SERVICES, ADV.
- 2961 HEALTH SCIENCE ED 1 & 2
- 2971 HEALTH SCIENCE ED II
- 2801 RADIO BROADCAST & PROD INTRO
- 2821 RADIO BROADCAST AND PROD 1-2
- 2831 RADIO BROADCAST AND PROD 3-4
- 2301 SPORTS REC & ENT MARKETING
- 2811 TV BROADCASTING & PROD INTRO
- 2841 TV BROADCAST & PROD 1-2
- 2851 TV BROADCAST & PROD 3-4
- 2251 WEB DESIGN-BEG
- 2261 WEB DESIGN-ADV

### ENGINEERING & TECH EDUCATION
- 5291 3D COMPUTER ANIMATION & VIS
- 5331 ARCTECHURAL DRAFT & DESG I
- 5341 ARCTECHURAL DRAFT & DESG II
- 5741 AUTO COLLISION REPAIR 1-2
- 5751 AUTO COLLISION REPAIR 3-4
- 5761 AUTO SERVICE TECH 1-2
- 5771 AUTO SERVICE TECH 3-4
- 5281 CIVIL ENG & ARCHITECTURE
- 2241 COMPUTER ILL & GRAPHICS
- 5301 COMP IN PROD/DESIGN
- 5361 COMP INT MANUF. (CIM)
- 5711 COMPUTER TECH SUPPORT
- 5231 COMMERCIAL & DIG PHOTO
- 5781 CONSTRUCTION TECH I
- 5791 CONSTRUCTION TECH II
- 5351 DIGITAL ELECTRONICS (DE)
- 5861 ELECTRONICS & COMP TECH I
- 5871 ELECTRONICS & COMP TECH II
- 5841 GRAPHIC DESIGN AND LAYOUT I
- 5851 GRAPHIC DESIGN AND LAYOUT II
- 5481 INTRO TO ADV MANF AND LOG
- 5691 INTRO TO CONSTRUCTION
- 5261 INTRO TO ENG. DESIGN (IED)
- 5251 INTRO TO MANUFACTURING
- 5721 NETWORK FUNDAMENTALS

### TECHNOLOGY (Continued)
- 5681 INTRO TO COMMUNICATIONS
- 5671 INTRO TO TRANSPORTATION
- 5821 PREC MACHINE TECH I
- 5831 PREC MACHINE TECH II
- 5271 PRINC OF ENGINEERING (POE)
- 5241 TECHNOLOGY SYSTEMS
- 5881 WELDING/TECH I
- 5891 WELDING/TECH II

### FAMILY & CONSUMER SCIENCE
- 1041 ADULT ROLES & RESP. 1-2
- 1051 CHILD DEV. & PARENTING
- 5941 COSMETOLOGY 1-2
- 5951 COSMETOLOGY 3-4
- 0991 INTRO TO CULINARY ARTS
- 0931 CULINARY ARTS & HOSP 1-2
- 0941 ADV CULINARY ARTS CAREERS
- 1071 EARLY CHILDHOOD ED 1-2
- 1091 EDUCATION PROFESSIONS
- 10961 FASHION & TEX FOUND I
- 1031 HOUSING & INT DESIGN FOUND
- 1111 INTERPERSONAL RELATIONSHIPS
- 0901 NUTRITION & WELLNESS 1
- 0912 NUTRITION & WELLNESS 2
- 0921 NUTRITION & WELLNESS 3
- 1001 PREP FOR COLLEGE & CAREER

### FINE ARTS
- 1301 INTRO TO ART
- 1311 CERAMICS 1-2 & 3-4
- 1361 DRAWING/PAINTING 1-2 & 3-4
- 1401 ADV ART DRAWING/PAINTING
- 1441 JEWELRY 1-2 & 3-4
- 1321 MEDIA ARTS I-2
- 5231 COMMERCIAL DIGITAL PHOTO
- 1421 3-DIMENSIONAL ART 1-2 & 3-4

### MATHS
- 6451 ALGEBRA I/2 (9TH)
- 6031 ALGEBRA ENRICHMENT
- 6381 ALGEBRA I/2 (10TH)
- 6411 ALGEBRA II 3/4
- 6501 GEOMETRY 1-2 (9TH)
- 6231 GEOMETRY 1-2 (10-12)
- 6511 GEOMETRY 1X-2X (9TH)
- 6521 GEOMETRY 1X-2X (10TH)
- 6002 MATH LAB
- 6621 FINITE MATHEMATICS
- 6641 ADV MODELING & ANALYSIS
- 6941 TRIGONOMETRY
- 6631 STATISTICS, ADV MATH COL CR
- 6611 AP CALCULUS 1-2
- 6651 CALCULUS 1-2 ADV COLLEGE CF
- 6591 COLLEGE ALG & TRIG, ADV MAT
- 6711 COMPUTER PROGRAM 1-2
## Performing Arts
- 1741 INTMD SYMPH BAND/BRASS
- 1731 INTMD SY BAND/WOODWINDS
- 1711 MARCHING BAND/PERCUSION
- 1761 ADV CONCERT BAND/HONORS
- 1701 JAZZ ENSEMBLE
- 1751 DANCE PERFORMANCE
- 1631 INT ORCHESTRA/CONCERT
- 1641 ADV ORCHESTRA/SYMPHONY
- 1831 BEG CHORUS/FERMATA
- 1851 INTMD CH/BOYS OF HARMONY
- 1711 MARCHING BAND/PERCUSSION
- 1701 JAZZ ENSEMBLE
- 1751 DANCE PERFORMANCE
- 1631 INT ORCHESTRA/CONCERT
- 1641 ADV ORCHESTRA/SYMPHONY
- 1831 BEG CHORUS/FERMATA
- 1851 INTMD CH/BOYS OF HARMONY

## Science (Continued)
- 1741 INTMD SYMPH BAND/BRASS
- 1731 INTMD SY BAND/WOODWINDS
- 1711 MARCHING BAND/PERCUSION
- 1761 ADV CONCERT BAND/HONORS
- 1701 JAZZ ENSEMBLE
- 1751 DANCE PERFORMANCE
- 1631 INT ORCHESTRA/CONCERT
- 1641 ADV ORCHESTRA/SYMPHONY
- 1831 BEG CHORUS/FERMATA
- 1851 INTMD CH/BOYS OF HARMONY

## Social Studies
- 1741 INTMD SYMPH BAND/BRASS
- 1731 INTMD SY BAND/WOODWINDS
- 1711 MARCHING BAND/PERCUSION
- 1761 ADV CONCERT BAND/HONORS
- 1701 JAZZ ENSEMBLE
- 1751 DANCE PERFORMANCE
- 1631 INT ORCHESTRA/CONCERT
- 1641 ADV ORCHESTRA/SYMPHONY
- 1831 BEG CHORUS/FERMATA
- 1851 INTMD CH/BOYS OF HARMONY

## Physical Education
- 9551 ATHLETIC WEIGHTS
- 9451 CPR/FIRST AID
- 9501 FUND. OF ATHLETIC TRAINING
- 9301 HEALTH EDUCATION
- 9441 ADVANCED SWIMMING
- 9431 LIFETIME FITNESS
- 9461 MCJROTC LE I
- 9491 MCJROTC LE II
- 9531 MCJROTC LE III
- 9541 MCJROTC LE IV
- 9401 PHYSICAL EDUCATION I-II
- 9411 ADP PHYSICAL EDUCATION I-II

## Science
- 7911 ACP BIOLOGY
- 7431 ACP CHEMISTRY
- 7511 ACP PHYSICS I
- 7531 ACP PHYSICS II
- 7611 ADV SCIENCE/AN & PHY 1-2
- 7631 ADV SCIENCE/HUMAN GEN
- 7621 ADV SCIENCE/MARINE BIOLOGY
- 7641 ADV SCIENCE/ZOOLOGY
- 7421 AP CHEMISTRY
- 7521 AP PHYSICS
- 7221 BIOLOGY I/1-2
- 7211 BIOLOGY I/1X-2X
- 7251 BIOMEDICAL INNOVATIONS 1-2
- 7401 CHEMISTRY I/1-2
- 7111 CHEMISTRY I/1X-2X

## World Language
- 4851 CHINESE I 1-2
- 4861 CHINESE II 3-4
- 4781 CHINESE III 5-6
- 3881 ETYMOLOGY
- 4591 GERMAN I/1-2
- 4601 GERMAN II/3-4
- 4621 GERMAN III/5-6
- 4631 GERMAN IV/7-8
- 4791 AP JAPANESE
- 4201 LATIN I/1-2
- 4301 LATIN II/3-4
- 4311 LATIN III/5-6
- 4321 AP LATIN IV
- 4391 SPANISH I/1-2
- 4401 SPANISH II/3-4
- 4421 SPANISH III/5-6
- 4431 SPANISH IV/7-8
- 4441 AP SPANISH
- 4441 AP SPANISH