Warsaw Community High School
&
Warsaw Area Career Center

COURSE OF STUDY GUIDE
2018-2019 School Year

Our mission is to inspire and equip all students to continuously acquire and apply knowledge and skills while pursuing their dreams and enriching the lives of others.
GENERAL INFORMATION

To Parents and Students:

High School is an exciting time to explore career options and discover your aptitudes and passions. This guide is designed to assist you in making the best possible decisions to get you where you want to be on your career path as you complete high school. **With the number of dual credit (meaning your student earns college credit and high school credit), Advanced Placement (AP) and certification programs available at Warsaw Community High School and Warsaw Area Career Center your student can leave prepared to be successful in college or go right into the work force at a higher level than others competing for the same positions.** Many students have at least a semester’s worth of college credits when they leave high school.

Parents have a responsibility to each student to be very certain all state and local requirements are met for graduation. Specific requirements are explained on the following pages.

**PROCESS**
- School Counselors present the course of study options to students at the beginning of second semester.
- Parents and students review choices and can enter courses online during January.
- Parents and students are urged to attend the WCHS/WACC Program Showcase on January 24, 2018 to explore course options.
- Students select courses.
- Students and School Counselors meet January-March to review career paths, discuss graduation requirements and review choices.
- We encourage students and parents to choose courses wisely. It is very difficult to change a course at the beginning of the year in August. A student’s schedule may need to be changed by the school if the student fails to meet a prerequisite or graduation requirement. The school reserves the right to cancel any class due to personnel or lack of enrollment and students will be given the opportunity to select an alternative. Students are responsible to make up any classes they committed to completing in summer school and then did not follow through with completing.
DUAL CREDIT AND AP OFFERINGS

Warsaw Community High School and Warsaw Area Career Center offer a number of dual credit and Advanced Placement (AP) courses. Choosing the right classes and making sure you are aware of the student and parent responsibility for tuition, books and test fees can be confusing. Please read course descriptions carefully. All students taking an AP course will be required to take the AP exam in May. For the 2017-18 year the cost per exam is $94. Each year the state legislature votes in March as to whether they will cover any AP fees. Some math, science and language arts courses have been covered in the past but parents should be prepared to pay for those exams if the legislature decides not to fund the cost. All other AP classes are the student’s responsibility.

The high school and the career center partner with several institutions of higher learning to offer dual credit. It is the student’s responsibility to make sure they are enrolled in the college and registered in the class. If there will be a charge to the student it should be included in the course description. Students enroll in the college or university that is awarding the credit and your financial dealings are with that school, not the high school. Some schools do offer assistance for free and reduced textbook students and some do not so it is important to do your research carefully. You will be billed directly by the institution offering the dual credit and must work out your payment plan with them. There are several courses in the career center that offer dual credit for free. Please note that some courses will be accepted by colleges or universities as replacement courses and some will be accepted as elective credits. It is the student and parent responsibility to contact the college or university you wish to attend and ask how credits will transfer. The high school and the career center cannot make any guarantees.

If a student signs up for a dual credit class and does not follow through and pay for the tuition, the student will need to be moved out of that class and cannot be guaranteed all their other courses will remain the same.

It is important for students and parents to think carefully about the time commitment required for a dual credit or AP course. Five of these courses would be like taking 15-20 credit hours in a college semester and then your student still has two other classes and after school or job responsibilities. If the high school pays for a teacher to teach the class, you may not have the option of dropping it once school starts so think carefully about how much your student can handle.

ADVANCED INDEPENDENT STUDY

Advanced Independent Study opportunities at WCHS are meant for students who have taken all of the course offerings in a specific subject area and have shown a special aptitude, skill and/or talent in this area.

Guidelines for Advanced Independent Study consideration:
- The student should have earned above average grades in the area of specialization.
- Applications for Advanced Independent Study are available in the counseling office and must be turned in no later than March 30, 2018.
COURSE RE-TAKES

Students may make a request to re-take courses to earn credit or improve their grade by contacting their counselor. If a class is full, the opportunity may not be available to the student. The re-take grade will count toward the student’s grade point average. The first attempt will remain on the student’s transcript, but will not count toward GPA. In a course which is re-taken where the student passes the class on the first attempt, but fails the course on the second attempt, the student will receive credit toward graduation from the first attempt and the grade from the second attempt will be calculated into his/her grade point average.

NCAA CLEARINGHOUSE

Any student who plans to participate in Division 1 or 2 sports at the college level must register with the NCAA Clearinghouse. It is recommended that this be done at the beginning of the student’s sophomore year. Students must then request a transcript of grades be sent to the clearinghouse at the end of the junior year. Specific requirements are available online at http://www.ncaaclearinghouse.net.

ELIGIBILITY FOR HIGH SCHOOL SPORTS

A student must be enrolled in and earn five credits in order to be eligible for sports. If a student is taking college courses as part of those five, the courses must be listed on the student schedule and the student must ask the professor to supply a midterm grade.

ISTEP

Beginning with the class of 2019 the state is returning to a comprehensive ISTEP exam given in the sophomore year. The student must pass all parts of the exam to graduate. The waiver process is yet to be announced.

EARLY GRADUATION (application required by March 30th)

The intent of an early graduation would be to allow a student to exit Warsaw Community High School to pursue college, technical school or the military early. Early graduation may occur in six or seven semesters. A student must apply for early graduation by completing an application which is available in the Counseling office. This form must be submitted to the student’s counselor by March 30, 2018. The building principal will review these applications along with the counselor and grade level principal. The student will be informed of the decision as to whether early graduation is granted. Graduating in six semesters will require summer school and/or correspondence classes depending on the student’s diploma type. It is wise to weigh carefully whether graduating early will actually benefit the student. A student can complete a year’s worth of college classes at a greatly reduced cost by remaining in high school and pursuing dual credit and AP classes.
## Course and Credit Requirements

<table>
<thead>
<tr>
<th>Category</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td><strong>English/ Language Arts</strong></td>
<td>8</td>
<td>Including a balance of literature, composition and speech.</td>
</tr>
<tr>
<td><strong>Mathematics</strong></td>
<td>6</td>
<td>(in grades 9-12)</td>
</tr>
<tr>
<td>2 credits: Algebra I</td>
<td></td>
<td></td>
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<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>Students must take a math or quantitative reasoning course each year in high school.</td>
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<td></td>
</tr>
<tr>
<td><strong>Science</strong></td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>2 credits: Chemistry I or Physics I or Integrated Chemistry-Physics</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Social Studies</strong></td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>1 credit: U.S. Government</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 credits: World History/Civilization or Geography/History of the World</td>
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<td></td>
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<tr>
<td><strong>Directed Electives</strong></td>
<td>5</td>
<td>World Languages</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fine Arts</td>
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<td></td>
<td></td>
<td>Career and Technical Education</td>
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<tr>
<td><strong>Physical Education</strong></td>
<td>2</td>
<td></td>
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<tr>
<td><strong>Health and Wellness</strong></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td>6</td>
<td>(College and Career Pathway courses recommended)</td>
</tr>
</tbody>
</table>

### 40 Total State Credits Required

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

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

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**Core 40 with Academic Honors**

For the Core 40 with Academic Honors diploma, students must:
- Complete all requirements for Core 40.
- Earn 2 additional Core 40 math credits.
- Earn 6-8 Core 40 world language credits (6 credits in one language or 4 credits each in two languages).
- Earn 2 Core 40 fine arts credits.
- Earn a grade of a "C" or better in courses that will count toward the diploma.
- Have a grade point average of a "B" or better.
- Complete one of the following:
  A. Earn 4 credits in 2 or more AP courses and take corresponding AP exams
  B. Earn 6 verifiable transcripted college credits in dual credit courses from priority course list
  C. Earn two of the following:
     1. A minimum of 3 verifiable transcripted college credits from the priority course list,
     2. 2 credits in AP courses and corresponding AP exams,
     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 IB exams.

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**Core 40 with Technical Honors**

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.
ENGLISH LANGUAGE ARTS

The English department is committed to providing all students opportunities to become competent readers, thinkers, researchers, speakers, listeners and problem solvers. Students are required to take four years of English in order to meet graduation requirements. In addition, they may take English Electives in order to increase their communication skills. There are several ways for students to develop their communication skills.

**Choose one required English class each year.**

- English 9
  - English 9 College Prep
  - Honors English 9

- English 10
  - English 10 College Prep
  - Honors English 10

- English 11
  - English 11 CP Integrated
  - English 11 College Prep
  - Honors English 11 Advanced Placement

- English 12
  - English 12 College Prep
  - English 12 English Literature
  - AP English 12
  - DC6 English Literature

**Electives may be taken throughout your four years.**

- Film Literature
- Public Speaking - Dual Credit
- English 9
  - English 9 College Prep
  - Honors English 9
- English 10
  - English 10 College Prep
  - Honors English 10
- English 11
  - English 11 CP Integrated
  - English 11 College Prep
  - Honors English 11 Advanced Placement
- English 12
  - English 12 College Prep
  - English 12 English Literature
  - AP English 12
  - DC6 English Literature
- Biblical Literature
  - Creative Writing/Advanced Creative Writing
- Journalism
  - Student Media - Newspaper/Yearbook

The English curriculum offers students many different ways to earn graduation credit, a Core 40 Diploma, a Core 40 Diploma with Academic Honors and/or a Core 40 Diploma with Technical Honors and earn college credits as well. Students need to enroll in a required English class each term of high school or earn 8 credits from required courses. Students working towards a Core 40 with Academic and/or Technical Honors do not need to take Honors English classes. All students in English classes are expected to do original work and those who plagiarize will be consequenced in accordance with the WCHS Academic Dishonesty Policy as outlined in the Student Handbook.
ENGLISH LANGUAGE ARTS

ENGLISH 9
Grade Level: 9
Prerequisite: Teacher referral, reading below grade level, and below proficiency on standardized test scores
Course Length: 2 semesters
Credits Earned: 2

This class provides direct instruction for students who read and write substantially below grade level. The methods utilized in class are research-based and include a variety of reading and writing strategies. Achieve 3000 will be utilized twice a week to enhance reading comprehension and increase Lexile levels. Students will participate in oral reading, guided reading, and sustained silent reading. They will also focus on word structure and vocabulary in the reading context. In addition, students will keep notebooks and journals to record written work. Once students have improved to near grade level, they will be eligible move into the English 9 CP class.

ENGLISH 9 CP
Grade Level: 9
Prerequisite: Passing grade in English 8, passing or within 10% of passing on 8th grade ISTEP, “Average” range on 8th grade MAP (41-60%)
Course Length: 2 semesters
Credits Earned: 2

This class combines literature study, composition, and oral communication. Students read a wide variety of literary genre. Written work will focus on paragraph organization with emphasis on supporting details. A research paper during semester two will employ a variety of writing strategies. Students will use correct grammar, spelling, and punctuation while utilizing technology and the writing process as they complete these writing tasks. They will prepare oral reports and projects including a piece for the national Poetry Out Loud contest.

HONORS ENGLISH 9
Grade Level: 9
Prerequisite: Student eligibility for Honors English 9 will be determined on a rubric utilizing student data
Course Length: 2 semesters
Credits Earned: 2

Encompassing the same description as English 9CP, this class provides greater depth. There is an emphasis on developing academic writing proficiency and increasing reading comprehension in both literary and informational texts.

*Dual Credit, AP and PLTW are considered honors designations at WCS.*
**ENGLISH 10**
Grade Level: 10
Prerequisite: Teacher referral, reading below grade level, and low standardized test scores
Course Length: 2 semesters
Credits Earned: 2

This class provides direct instruction for students who read and write substantially below grade level. The methods utilized in class are research based and include a variety of reading and writing strategies. A leveled, computer-based program will be utilized weekly to enhance reading comprehension and increase Lexile levels. Students will participate in oral reading, guided reading, and sustained silent reading. They will also focus on sentence structure and vocabulary in context. In addition, students will keep notebooks or journals to record written work. Pre- and post-testing will be used to monitor progress. A short speech or oral presentation is required. Once students have improved to near grade level or have passed the ISTEP, they will be eligible to move into the English 10 CP class or qualify for 11CP in the next year.

**ENGLISH 10 CP**
Grade Level: 10
Prerequisite: Passing grade in English 9 CP, Passing or within 10% of passing on 8th grade ISTEP, “Average” range on 9th grade Map (41-60%)
Course Length: 2 semesters
Credits Earned: 2

Students read and respond to a variety of historical and culturally significant works of literature. They will analyze and compare works in terms of themes, purpose, and authors’ styles. They will study vocabulary in context to facilitate reading comprehension. Students analyze a variety of sentence and paragraph structures to complete a variety of composition assignments with a focus on citing evidence from text to support analysis of literature. Throughout the course, students will learn the various components of research essays. Students will create oral presentations and use technology in several aspects of their study.

**HONORS ENGLISH 10**
Grade Level: 10
Prerequisite: Passing Honors English 9 with a B or better average or a written teacher recommendation and completed student application for those seeking acceptance into Honors 10 after earning an A or better in English 9 CP. MAP Score of High or High Average and a Lexile Level of 1000.
Course Length: 2 semesters
Credits Earned: 2

English 10 Honors encompasses most aspects of English 10CP but to a greater depth. In this course, students will learn to construct more advanced sentences, more unified and coherent paragraphs, and more organized essays. Students will also learn the importance of in text citations and how to incorporate borrowed material in an informative research project as well as an argumentative research paper. Additionally, students will read various genres of literature and discuss and write about various literary and social aspects of the reading.

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ENGLISH 11
Grade Level: 11
Prerequisite: Teacher referral and below proficiency standardized test scores
Course Length: 2 semesters
Credits Earned: 2

In this course, students will undertake a study of American literature. This class provides direct instruction for students who read and write substantially below grade level. The methods utilized in class are research-based and include a variety of reading and writing strategies. Students will participate in oral reading, guided reading, and sustained silent reading. Pre- and post-testing will be used to monitor progress. Students will explore the literature of America. Creative reading responses, technical writing assignments and discussions will stem from the reading. Students practice citing evidence from texts to support their claim(s). Once students have passed the English ISTEP, they will move into the English 11 CP class.

ENGLISH 11 CP
AMERICAN LITERATURE
Grade Level: 11
Prerequisite: College Prep Path
Passing grade on 10th grade ISTEP
Course Length: 2 semesters
Credits Earned: 2

In this course, students undertake a chronological study of American literature. They employ methods of literary analysis as they discuss recurring themes and social paradigms related to the literature. They complete numerous writing assignments as well as a research paper. Using research and technology, they apply the writing process to complete polished final drafts. Vocabulary study includes interdisciplinary references related to the literature students read. Students participate in group discussions and presentations. Also students practice citing evidence from texts to support their claims on various written assignments.

AP ENGLISH 11 LANGUAGE AND COMPOSITION*
Grade Level: 11
Prerequisite: B or better in English 10 Honors.
Course Length: 2 semesters
Credits Earned: 2

Honors English 11 (A.P. Language and Composition) incorporates all aspects of English 11 CP. In addition, this course combines a comprehensive survey of American Literature with language and composition study in preparation for the Advanced Placement Language and Composition test. Students will analyze literary and rhetorical strategies, and write a college level argumentative research paper. The instructor will make a recommendation to students on an individualized basis as to whether the A.P. Language and Composition test should be taken at the conclusion of this course or taken along with the A.P. Literature and Composition test the following year. Students will be required to take the test either in the current year or in the senior year after taking Honors 12 A.P. Literature and Composition. Cost for 2017-18 was $94 and has increased each year.

Summer reading and related activities required. ALL SUMMER READING is a percentage of the first semester grade. Failure to complete and submit summer reading by the assigned due date will negatively impact the students’ grade, but will not be a consideration for a schedule change request.

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ENGLISH 12
Grade Level: 12
Prerequisite: Teacher referral and below proficiency standardized test scores.
Course Length: 2 semesters
Credits Earned: 2

This class provides direct instruction for students who read and write substantially below grade level. The methods utilized in class are research based and include a variety of reading and writing strategies. Students will participate in oral reading, guided reading, and sustained silent reading. Achieve 3000 will be utilized twice a week to enhance reading comprehension and increase Lexile levels. In addition, students will keep notebooks or journals to record written work. Pre and post testing will be used to monitor progress. Students will read a variety of modern and current literature, including magazines and newspapers. Writing will focus on practical applications such as letter writing and resumes as well as crafting argumentative pieces.

ENGLISH 12 CP – World Literature
Grade Level: 12
Prerequisite: Completion of English 11CP
Course Length: 2 semesters
Credits Earned: 2

This course focuses on developing college ready reading and writing skills. Students will read novels, poetry, creative nonfiction, and contemporary articles from online sources. Coursework is geared towards developing thinking skills, reading comprehension, and interpretation and analysis. The curriculum will follow a thematic design and explore numerous cultural issues.

ENGLISH 12 CP – English Literature
Grade Level: 12
Prerequisite: College Prep Path, completion of English 11 CP
Course Length: 2 semesters
Credits Earned: 2

This course is a survey of English literature, including works from the Anglo-Saxon period, Shakespeare, Jane Austen, and up to 20th century British literature. Students will write for varied purposes across the curriculum. Students will also discuss and analyze the works of literature and their impact. Students will utilize technology in a variety of ways to experience many of Britain’s literary treasures.

AP ENGLISH 12 LITERATURE AND COMPOSITION*
Grade Level: 12
Prerequisite: B or better in English 11AP
Course Length: 2 semesters
Credits Earned: 2

This course continues preparation for the Advanced Placement Language and Literature tests given in May. Emphasis will be on literary analysis and composition. Students will read non-fiction, fiction, poetry, and drama. They will analyze, research, and write about the work of major writers. Strong verbal and writing skills are necessary to be successful in the course.

Summer reading and related activities required. ALL SUMMER READING is a percentage of the first quarter grade. Failure to complete and submit summer reading by the assigned due date will negatively impact the students’ grade, but will not be a consideration for a schedule change request.

STUDENTS ENROLLED IN THIS COURSE ARE REQUIRED TO TAKE THE AP EXAM IN MAY. If the student did not take the Language test the previous year, both exams are required. Students are required to participate in the AP program and pay the fee for that program. The 2017-18 fee was $94 and has increased each year. Financial assistance may be available for a portion of the cost for qualified students.

*Dual Credit, AP and PLTW are considered honors designations at WCS.
DC6 ENGLISH LITERARY INTERPRETATION*
(W131 L202 IUSB)
W131/L202 Advanced College Placement
Indiana University Dual Credit Course
Grade Level: 12
Prerequisite: Cum GPA of a B or higher and completed application. Students must meet the entry requirements for IU. Course must be taken for college credit. Students who enroll in L202 must have successfully completed W131.
Course Length: 2 semesters
Credits Earned: 2

Students must take both components of this advanced placement class. Both classes offer dual credit through WCHS and Indiana University. In W131, students read collections of articles based on diverse subjects and write responses to those readings. Writing a total of six papers in eighteen weeks’ time, students begin with summaries and summary responses and conclude with an independent research paper. L202 provides an introduction to literary analysis. Students will read fiction, poetry, and drama. They will analyze, research, and write about the work of major writers. Class discussion is a key component of the class; therefore, good attendance is essential.

Students who enroll in this course must pay tuition costs of $75 per semester ($150 total) to Indiana University South Bend for college credit. While there is some financial help available for students who receive free or reduced lunch, WCHS cannot guarantee any student free tuition.

Additionally, all students must purchase or rent textbooks for the course, which may cost $150-$250.

DC6 ENGLISH CHILDS LIT*
(W131 IUSB L240 ITCC)
W131/L240 Advanced College Placement
Indiana University/Ivy Tech Dual Credit Course
Grade Level: 12
Prerequisite: Cum GPA of a B or higher and completed application. Students must meet the entry requirements for IU and Ivy Tech Course must be taken for college credit. Students who enroll in L240 must have successfully completed W131.
Course Length: 2 semesters
Credits Earned: 2

Students must take both components of this advanced placement class, which is geared toward those students who wish to pursue an interest in English, education, child psychology, or early childhood development. Dual credit is offered in conjunction with Indiana University for W131 and Ivy Tech for L240. In W131, students read collections of articles based on diverse subjects and write responses to those readings. Writing a total of six papers in eighteen weeks’ time, students begin with summaries and summary responses and conclude with an independent research paper. L240 provides an introduction to children’s literature. Students will read from a variety of texts written for children. They will analyze, research, and write about important works, themes, and movements in children’s literature. Class discussion is a key component of the class; therefore, good attendance is essential.

Students who enroll in this course must pay tuition costs of $75 for W131 to Indiana University South Bend for college credit. While there is some financial help available for students who receive free or reduced lunch, WCHS cannot guarantee any student free tuition.

Additionally, all students must purchase or rent textbooks for the course, which may cost $150-$250.

*Dual Credit, AP and PLTW are considered honors designations at WCS.
**ELECTIVES:** English elective classes are for enriching communication skills and count as elective credits, but cannot be substituted for required English credits

<table>
<thead>
<tr>
<th>JOURNALISM</th>
<th>CREATIVE WRITING</th>
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<tbody>
<tr>
<td>Grade Level: 9-12</td>
<td>Grade Level: 10-12</td>
</tr>
<tr>
<td>Prerequisite: None</td>
<td>Prerequisite: Passed English 9</td>
</tr>
<tr>
<td>Course Length: 2 semesters</td>
<td>Course Length: 1 semester</td>
</tr>
<tr>
<td>Credits Earned: 2</td>
<td>Credits Earned: 1</td>
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This course teaches the fundamentals of journalism. Students will learn journalistic writing, editing, photography, advertising, layout and design. They will write and analyze basic news stories, features, editorials, and sports stories. They will study the history of mass media and examine media critically. Practical assignments will be completed to assist the school newspaper and yearbook. Students should have a C or better average in English to be successful in this course. Journalism is required for Newspaper Publication and recommended for Yearbook.

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<th>STUDENT MEDIA~NEWSPAPER</th>
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<tr>
<td>YEARBOOK</td>
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<tr>
<td>Grade Level: 10-12</td>
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<tr>
<td>Prerequisite: Journalism</td>
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<tr>
<td>Course Length: 2 semesters</td>
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<tr>
<td>Credits Earned: 2</td>
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This class provides students with real-world experiences in journalism. Students interested in Publications should complete Journalism and have excellent attendance in order to be admitted to the course. Students will produce *The Roar* newsmagazine and the Tiger Yearbook. Students should have ability in writing with a journalistic style, taking photos, laying out pages, editing photos, and possibly selling advertisements. Students should be responsible and able to work independently to meet deadlines and to produce a quality yearbook or newsmagazine for the school community. Yearbook and Newspaper students will possibly sell ads and will definitely write copy, take photographs, design layout using computers, meet deadlines, and decide themes, conduct interviews, and sell and distribute the publications. This course counts as fine arts credit for the Core 40 with Academic Honors Diploma.

<table>
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<th>ADVANCED CREATIVE WRITING</th>
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<tr>
<td>Grade Level: 11, 12</td>
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<tr>
<td>Prerequisite: Creative Writing</td>
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<tr>
<td>Course Length: 1 semester</td>
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<tr>
<td>Credits Earned: 1</td>
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This course is designed for students who have completed the creative writing course with a grade of B or higher. Student will read and write in multiple genres, including poetry, fiction, and creative nonfiction. Writing projects in this course will be somewhat tailored to the student’s interest – imagine the course as a collection of advanced writing students working on various independent-study style projects, getting feedback from the instructor and from each other, and reading as well as writing in the genre(s) of their choice. Students will workshop and critique on a weekly basis. Students must be willing to write, revise, edit, review, and revise more. Students in this course should have a good handle of basic writing skills, standard grammar, and should have an interest in reading widely. An end of semester public reading featuring students of the Advanced Creative Writing course is a possibility should students express an interest in planning one.

*Dual Credit, AP and PLTW are considered honors designations at WCS.*
FILM LITERATURE
Grade Level: 11-12, 10 with application
Prerequisite: English 9 & 10
Course Length: 1 semester
Credits Earned: 1

Film Literature is a writing intensive course in which iconic films of various eras are watched, critiqued, and written about in various analytical modes. Each 9 weeks consists of a 3-week themed unit and a 6-week unit covering, typically, 1950-1975 or so and 1975-present. Films chosen are usually PG and occasionally PG-13 rated movies – we do not watch “R” movies in Film Lit. Emphasis is on watching actively, taking notes, discussing film elements, and exploring various features, motifs, and themes of the films as if studying a work of literature. Recent theme units have included Steven Spielberg films and Documentaries about Artists. Detailed in class writing and revised, developed essays are an expectation for the course. In this class, we are working to develop not only our understanding and appreciation of film but the application of literary analysis-style writing to the films as well.

BIBLICAL LITERATURE
Grade Level: 11-12
Prerequisite: English 9 & 10
Course Length: 1 semester
Credits Earned: 1

Students interested in learning more about the Bible as literature will enjoy this course. Students will discover a variety of literary genres found in the Bible. They will learn about allusions to the Bible found in classical and modern literature. They will also explore major literary themes such as kingship and order vs. chaos, learn about Ancient Near Eastern history, and compare this history to the events in the Bible. They will become aware of the Bible's presence in contemporary life and language, in our editorials, cartoons, advertisements, everyday expressions, art, and film.

DC3 SPEECH COMMUNICATIONS*
(SPCHS121 IUSB)
Advanced College Placement
Indiana University Dual Credit Course
Grade Level: 11-12
Prerequisite: English 9 & 10
Course Length: 1 semester
Credits Earned: 1

Effective face-to-face communication is more important than ever. Students who would like to acquire self-confidence, poise, and organized thinking while developing formal oral communications skills should take this course. The course emphasizes the organization, structure, research, delivery and criticism required for public speaking. The student will learn how to develop his/her own thoughts, feelings, and personal attitudes into an effective message for specific situations. Because this is a dual-credit course, students must meet IU Requirements for Advanced College Placement. Good attendance is also essential.

Students who enroll in this course must pay tuition costs of $75 for to Indiana University South Bend for college credit. While there is some financial help available for students who receive free or reduced lunch, WCHS cannot guarantee any student free tuition.

Additionally, all students must purchase or rent textbooks for the course, which may cost $30-$80.

*Dual Credit, AP and PLTW are considered honors designations at WCS.
ENGLISH LANGUAGE LEARNERS

EMERGING ENL
Grade Level 9-12
By placement only according to WIDA scores and performance (generally Levels 1 & 2)
Course Length: 2 semesters
Credits: 2, up to 4 credits of EL can count for graduation English credits or as world language credits.

This class is the study of language, literature, composition and oral communication for Limited English Proficient (LEP) students to improve proficiency in Standard English. The class focus is on phonemic awareness, phonics, vocabulary, fluency, and reading comprehension. The intent of the course is to increase students’ abilities to benefit in the classroom setting and in Core 40 English courses. It is taken concurrently with grade level English.

DEVELOPING ENL
Grade Level 9-12
By placement only according to WIDA scores and performance (generally Level 3)
Course Length: 2 semesters
Credits: 2, up to 4 credits of EL can count for graduation English credits or as world language credits.

This class is the study of language, literature, composition and oral communication for Limited English Proficient (LEP) students to improve proficiency in Standard English. The intent of the course is to increase students’ abilities to benefit in the classroom setting and in Core 40 English courses. It is taken concurrently with grade level English.

BRIDGING ENL
Grade Level 9-12
By placement only according to WIDA scores and performance (generally Level 4)
Course Length: 2 semesters
Credits: 2, up to 4 credits of EL can count for graduation English credits or as world language credits.

This class is for English Language Learners to improve proficiency in Standard English. The intent of the course is for students to demonstrate that they can acquire knowledge, comprehend, apply, analyze, and synthesize information by using reading comprehension and writing strategies. EL students will be able to use critical thinking skills in English. It is taken concurrently with grade level English.

*Dual Credit, AP and PLTW are considered honors designations at WCS.*
FINE ARTS/DANCE
All Dance Classes fulfill requirement for 1 or 2 Fine Arts credits for Core 40 with Academic HONORS diploma

<table>
<thead>
<tr>
<th>DANCE PERFORMANCE I</th>
<th>DANCE PERFORMANCE I - FOR ATHLETES</th>
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<tr>
<td><strong>Grade Level:</strong></td>
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Dance Performance I is an introduction to dance performance techniques. Students will learn basic dance steps in areas of ballet, jazz, hip hop, and modern dance. Dance performance provides opportunities for students to experience degrees of physical discipline and conditioning, technique, and flexibility. Students will understand that dance is a both a physical and artistic study that uses the expression of thoughts, feelings, perceptions and/or images to communicate the art to an audience. Students learn to evaluate their own technical skills as well as describe, analyze, and interpret both live and recorded dance performances. They also study the elements of dance, basic musculoskeletal anatomy and nutrition for dancers, and research vocational opportunities in dance. **This course may fulfill one semester of the PE Waiver. Students must also take one semester of PE. Participation in end of the semester dance concert and rehearsals outside of class are REQUIRED. Students are required to purchase one pair of dance shoes for the course.**

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<th>DANCE PERFORMANCE II</th>
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The Dance Performance II builds upon basic principles and performance techniques learned in Performance I. Class admittance is by director’s approval. Students will improve and refine skills in the four primary performance techniques, ballet, jazz, modern, tap, and hip hop. They will also explore other dance performance techniques such as musical theater and lyrical dance. Dance II provides opportunities for students to experience intermediate to advanced levels of physical conditioning, technique, and flexibility. Students will study the history of dance, particularly in the 20th century. They will also design a group project integrating dance into one other academic discipline outside of the arts. **Participation in end of the semester dance concert and rehearsals outside of class are REQUIRED. Students are required to purchase one pair of dance shoes for the course.**

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Dance III is an upper level dance course. Students must complete Dance I and II before they take Dance III. Students will explore a number of dance styles as well as understand the history of each style. Students will be required to perform in both the PAC Gala and the winter dance concert. The knowledge gain in Dance III will build on what is taught in Dance I and II. **Participation in end of the semester dance concert and rehearsals outside of class are REQUIRED.**

**THIS COURSE WILL NOT BE OFFERED 2018-2019**

*Dual Credit, AP and PLTW are considered honors designations at WCS.*
**DANCE PERFORMANCE SELECT ENSEMBLE**
Grade Level: 10-12
Prerequisite: Auditioned/Approved by teacher
Course Length: 2 Semesters
Credit: 2

Select Dance Ensemble is a 2 semester (full year) advanced course in dance performance and technique. Students will learn advanced technical steps, vocabulary, and choreography in no less than four different genres of dance. Students will create short dance compositions and practice improvisational skills. Students will also learn to analyze, evaluate, and appreciate professional dance performances. **Audition and instructor approval for class are REQUIRED. Participation outside of normal school hours is also REQUIRED. Minimum of three performances per school year. Students are also required to purchase or obtain the following dance shoes for the course: ballet, jazz, and tap.**

**DANCE CHOREOGRAPHY**
Grade Level: 10-12
Prerequisite: Dance Performance I
Course Length: 1 semester
Credits Earned: 1

Dance Choreography is based on the Indiana Academic Standards for Dance. Learning activities in choreography are sequential and systematic and allow students to express themselves. A wide variety of materials and experiences are used in order to provide students with the knowledge, skills, and appreciation of the multi-styled and multicultural dance expressions. Choreographic activities provide students opportunities to participate in roles as a soloist, a choreographer or leader, and in a subject role. Students also explore a wide variety of choreographic philosophies as well as administrative and media skills necessary for the promotion and documentation of works to be performed. Students experience and learn to use appropriate terminology to describe, analyze, interpret, and critique dance compositions by professional individuals or companies.

**COLOR GUARD**
Grade Level: 9-12
Prerequisite: See below
Course Length: 2 semesters
Credits Earned: 2

This is the Dance Course associated with the WCHS Marching Band. Required: Two semesters per year is required for this course
Prerequisites: Audition
Dance Performance – COLOR GUARD provides students with instruction in the development of skills in the art of performing various bodily movements in rhythm using musical accompaniment. Course content will include music terminology, note values, rhythms, meter, tempo, melodic content and contrast, music listening, performance techniques, choreography, costuming and makeup, and safety practices (warm up and cool down). The Warsaw color guard, which includes dance, flags, rifles, and sabers, are a part of this curriculum. The dance class performs with the marching band in the fall and is a member of the Indiana High School Color Guard Association (IHSCGA) and Winter Guard International (WGI) during the winter months. Students are required to participate in performance opportunities, outside of the school day, that support and extend the learning in the classroom.

**Activity Fee:** There is a $125.00 class fee each year for all students enrolled in the Color Guard class. The money is used for contest entry fees, guest conductors and artists, music rental, supplies, and a variety of other items for the class. The fees are due at the beginning of the school year. Checks should be made payable to Warsaw Community Schools.

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*Dual Credit, AP and PLTW are considered honors designations at WCS.*
FINE ARTS/
PERFORMING ARTS

These Classes fulfill the requirement for Fine Arts for Core 40 with Academic HONORS Diploma

CONCERT BAND (formerly Marching Band)
Grade Level: 9-11
Prerequisite: See below
Course Length: 2 semesters
Credits Earned: 2

The Concert Band provides ensemble and solo activities designed to develop elements of intermediate musicianship skills in every student. Experiences include, but are not limited to, sight-reading, tone production, technical development, music reading, balance and blend. Students will continue to refine their performances to include expression and technical accuracy, and a large and varied repertoire of concert band literature that is developmentally appropriate. This is a co-curricular class. Attendance at rehearsals and performances outside of the school day is mandatory. Additional experiences in this class include, Marching Band, Pep Band, and competitive performances and community service. During the first semester, all students enrolled in Concert Band will participate in the Tigers’ Pride Marching Band (Required). Placement in the Concert Band is by audition and is generally limited to students with successful previous experience in middle or high school band classes.

Activity Fee: There is a $125.00 class fee each year for all students enrolled in the Concert Band class. The money is used for contest entry fees, guest conductors and artists, music rental, supplies, and a variety of other items for the class. The fees are due at the beginning of the school year. Checks should be made payable to Warsaw Community Schools. Participation in Solo and Ensemble and All-State Band auditions is encouraged.

WIND SYMPHONY (formerly Advanced Band)
Grade Level: 9-12
Prerequisite: See below
Course Length: 2 semesters
Credits Earned: 2

The Wind Symphony studies & performs music at an advanced skill level with ensemble and solo activities designed to develop elements of advanced musicianship in every student. Experiences include, but are not limited to, sight-reading, tone production, technical development, music reading, balance and blend. Students will continue to refine their performances to include expression and technical accuracy at a high performance level, and a large and varied repertoire of intermediate to advanced concert band literature. This is a co-curricular class. Attendance at rehearsals and performances outside of the school day is mandatory. Additional experiences in this class include, Marching Band, Pep Band, and competitive performances and community service. During the first semester, all students enrolled in Wind Symphony will participate in the Tigers’ Pride Marching Band (Required). Placement in the Wind Symphony is by audition and is generally limited to students with successful previous experience in middle or high school band classes. Participation in Solo and Ensemble and All-State Band auditions is expected.

Activity Fee: There is a $125.00 class fee each year for all students enrolled in the Wind Symphony class. The money is used for contest entry fees, guest conductors and artists, music rental, supplies, and a variety of other items for the class. The fees are due at the beginning of the school year. Checks should be made payable to Warsaw Community Schools.

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PERCUSSION ENSEMBLE  
Grade Level: 9-12  
Prerequisite: See below  
Course Length: 2 semesters  
Credits Earned: 2

The Percussion Ensemble class studies and performs music specific to a wide variety of percussion instruments. Students develop and refine techniques specific to percussion and progress at an accelerated rate. In addition to Percussion Ensemble, students are performing members of the Tigers’ Pride Marching Band in the Fall (required), and Concert Band or Wind Symphony in the Spring, in addition to an annual Spring Percussion concert. This is a co-curricular class. Attendance at rehearsals and performances outside of the school day is mandatory. Experiences in this class include advanced levels of Marching Percussion, Instrument Techniques, Solo and Ensemble literature, World Percussion, Pep Band, competitive performances, and community service opportunities. Placement in the Percussion Ensemble class is by audition and is generally limited to students with successful previous experience in middle or high school band classes. Preference is given to students with a background in percussion, piano, and/or double reed instruments. Participation in Solo and Ensemble and All-State Band auditions is expected.

Activity Fee: There is a $125.00 class fee each year for all students enrolled in the Percussion Ensemble class. The money is used for contest entry fees, guest conductors and artists, music rental, supplies, and a variety of other items for the class. The fees are due at the beginning of the school year. Checks should be made payable to Warsaw Community Schools.

JAZZ BAND  
Grade Level: 9-12  
Prerequisite: See below  
Course Length: 1 semester  
Credits Earned: 1

The Jazz Band class gives students an opportunity to rehearse and perform various jazz, Latin, and pop music styles. Students develop an understanding of performance practices, representative artists and groups, history, improvisation techniques, and influence on modern pop culture. Jazz Band is considered a supplemental band class. Enrollment is limited only to students also enrolled in 2 semesters of a primary band class (Concert Band, Wind Symphony or Percussion Ensemble). Exceptions may be made for students with the following instrument experience: piano, guitar, bass. The Jazz Band performs regularly for select local and regional performances, including contests or jazz festivals around the state. This is a co-curricular class. Although no audition is required, at least an intermediate playing ability and individual preparation of music outside of class in essential. Attendance and participation in all extracurricular rehearsals and performances are required. Jazz Band meets in the Spring semester each year.

Activity Fee: There is a $50.00 class fee for all students enrolled in the Jazz Band class. The money is used for contest entry fees, guest conductors and artists, music rental, supplies, and a variety of other items for the class. The fees are due at the beginning of the Spring semester. Checks should be made payable to Warsaw Community Schools.

APPLIED MUSIC (Instrumental Ensemble)  
Grade Level: 9-12  
Prerequisite: See below  
Course Length: 1 semester  
Credits Earned: 1

Applied Music (INSTRUMENTAL ENSEMBLE) offers students the opportunity to receive small group or private instruction designed to develop instrumental performance skills. Instruction is designed so that students are enabled to connect, examine, imagine, define, try, extend, refine, and integrate music study into other subject areas. A variety of music methods and repertoire, including solos, chamber music, pop, and jazz, is utilized to refine students’ abilities in listening, analyzing, interpreting, and performing. Instruction is offered in basic instrumental technique, world music styles, history, practice techniques, and audition skills. Students enrolled in this class are required to participate in Solo and Ensemble events, as well as All-State and Honor group auditions. Students must also be enrolled in a primary band or orchestra class.

*Dual Credit, AP and PLTW are considered honors designations at WCS.
**INTERMEDIATE ORCHESTRA**
(SINFONIA)
Grade Level: 9-12
Pre- Requirement: Audition and/or permission of the Director
Course length: 2 semesters
Credits earned: 2

*Intermediate Orchestra* is based on the Indiana Academic Standards for High School Instrumental Music. Students in this ensemble are provided with a balanced comprehensive study of music through the orchestra, string and/or full orchestra, which develops skills in the psychomotor, cognitive, and affective domains. Ensemble and solo activities are designed to develop and refine elements of musicianship including tone production, technical skills, intonation, music reading skills, listening skills, analyzing music, studying historically significant styles of orchestral literature, and integration of other applicable disciplines. Experiences include improvising, playing by ear, and sight-reading. Students develop the ability to understand and convey the composer's intent in performance of music. Time outside of the school day may be scheduled for rehearsals and performances. A limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students are required to participate in performance opportunities outside of the school day that support and extend learning in the classroom.

**ADVANCED ORCHESTRA**
(PHILHARMONIC)
Grade Level: 9-12
Pre- Requirement: Audition and/or permission of the Director
Course Length: 2 semesters
Credits earned: 2

*Advanced Orchestra* is based on the Indiana Academic Standards for High School Instrumental Music. Students in this ensemble are provided with a balanced comprehensive study of music through the orchestra, string and/or full orchestra, which develops skills in the psychomotor, cognitive, and affective domains. Ensemble and solo activities are designed to develop and refine elements of musicianship including tone production, technical skills, intonation, music reading skills, listening skills, analyzing music, studying historically significant styles of orchestral literature, and integration of other applicable disciplines. Experiences include improvising, playing by ear, and sight-reading. Students develop the ability to understand and convey the composer's intent in performance of music. Time outside of the school day may be scheduled for rehearsals and performances. A limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students are required to participate in performance opportunities outside of the school day that support and extend learning in the classroom.

*Dual Credit, AP and PLTW are considered honors designations at WCS.*
FINE ARTS/THEATRE

All Theater Classes fulfill the requirement for Fine Arts for Core 40 with Academic HONORS Diploma.

THEATRE ARTS I
Grade Level: 9-12
Prerequisite: None
Course Length: 1 semester
Credits Earned: 1

This course is an introduction to theater arts. Students begin with the basic theater appreciation and move to basic acting techniques. They study stage movement, pantomime, improvisation, voice and diction and small group scenes. Students will perform frequently in front of others and will complete written assignments.

THEATRE ARTS HISTORY (THEATRE II)
Grade Level: 9-12
Prerequisite: Theatre I
Course Length: 1 semester
Credits Earned: 1

Students will study the history, structure and varieties of drama, including comedy and tragedy, from Greek to the present day. They will study the technical aspects of a production including set design, costumes and make-up. They will perform an example of a Greek play and scenes from playwrights studied in the unit. Theatre Arts I is a prerequisite.

THEATRE ARTS SPECIAL TOPIC CHILDREN (THEATRE III)
Grade Level: 10-12
Prerequisite: Theatre I
Course Length: 1 semester
Credits Earned: 1

Students will study all aspects of producing a play from selecting scripts to directing to publicity to a final production. They will apply these techniques to presenting a play for various elementary schools. Acting will be emphasized. Students will also study auditions and present individual projects. Theatre Arts I is a prerequisite.

ADVANCED ACTING (THEATRE IV)
Grade Level: 10-12
Prerequisite: Theatre I, II
Course Length: 1 semester
Credits Earned: 1

This course continues the study of play production and emphasizes acting in a variety of scenes. Students will study Shakespeare and compare a movie with its’ play version. They will write an original monologue based on the life of a real person and perform it as well as write a One Act Play as a group project. Theater Arts & Theatre Arts History are prerequisites.


ADVANCED THEATRE ARTS (SELECT THEATRE)
Grade Level: 11-12
Prerequisite: Theatre I & II
Course Length: 2 semesters
Credits Earned: 2

Serious students of theater will develop their acting and directing skills. They will prepare and direct a small group scene. The class will also produce and perform a play to be presented to the community and the proceeds will go to a local charity. These students will prepare and take part in the annual Variety Show and may be involved in programs requested by the school and community. Students are chosen by an audition process. Re-evaluation of a student’s placement may occur during the year at the teacher’s discretion. A variety of monologues and scenes will be presented. Theater Arts I & Theatre Arts History are prerequisites.

*Dual Credit, AP and PLTW are considered honors designations at WCS.
**TECHNICAL THEATRE**

Grade Level: 11-12  
Prerequisite: Application Required,  
Course Length: 1 semester  
Credits Earned: 1

Students enrolled in the technical theater class will actively engage in the process of designing, building, managing, and implementing the technical aspects of a production. Activities for the course will incorporate elements of the following:

- Students will explore the evolution of stage technology and its impact on contemporary theater.
- Students will develop and apply criteria to make informed judgments about technical production choices and reflect on the appropriateness and usefulness of those choices.
- Students will design and implement the elements of a theatrical environment including lighting, sound, and stage and house management.

**Students will learn:**
- **Stagecraft:** Rigging, scenery construction, painting techniques, prop making, rigging principles and operation, and basic safety for use of construction tools and saws.
- **Lighting:** Lighting, drafting and design; handling lighting equipment, identification of different lighting instruments; electrical theory and safety, optics and instrumentation, and light plots.
- **Sound Systems:** sound reinforcement theory and design, operating and amplification systems, basic recording techniques.

Students will be required to attend 1-2 outside activities to apply what is learned in class. (After school hours required).

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**MUSICAL THEATRE**

Grade Level: 10-12  
Prerequisite: None  
Course Length: 1 semester  
Credits Earned: 1

Students in this course study the history of musical theatre and its place in today's society. They participate in staging, choreographing, rehearsing, and performing an original or existing musical work. This class may be taught collaboratively among music, theatre, dance, and visual arts faculty. These activities should incorporate elements of theatre history, culture, analysis, response, creative process, and integrated studies. Additionally, students explore career opportunities in the theatre and recognize the responsibilities and the importance of individual theatre patrons in their community. Class will be offered every other year beginning with the 2018-2019 school year.

**MUSICAL THEATRE WILL BE OFFERED DURING THE 2018-2019 SCHOOL YEAR, BUT WILL NOT BE OFFERED 2019-2020.**

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*Dual Credit, AP and PLTW are considered honors designations at WCS.*
FINE ARTS/VISUAL ARTS

9-12TH GRADE CLASSES

- SCULPTURE
- 2D ART
- DRAWING I

10-12TH GRADE CLASSES

- DRAWING II
- PAINTING I
- Visual Communication I (Graphic Design I)
- HONORS DRAWING III
  *DUAL CREDIT-PFW
- PAINTING II
- Honors Visual Communication II (Graphic Design II)
  *DUAL CREDIT-PFW
- CERAMICS I
- PHOTOGRAPHY I
- CERAMICS II
- PHOTOGRAPHY II
- HONORS CERAMICS III
  *DUAL CREDIT-PFW

12TH GRADE ONLY CLASSES

- +AP STUDIO ART
FINE ARTS/VISUAL ART

TWO-DIMENSIONAL ART (Intro to Art)
Grade Level: 9-12
Prerequisite: None
Course Length: 1 semester
Credits Earned: 1

Two-Dimensional Art is a course based upon the elements and principles of Art: Line, shape, space, texture, color, value, balance, unity, contrast, pattern, movement, and emphasis. 2-D Art is primarily two-dimensional design, including work such as drawing, painting and collage. Concepts will be taught through the study of art history, criticism, aesthetics, and production techniques. Students will learn to appreciate art in this beginning visual arts class. The materials for this class will cost approx. $20.00 at the bookstore.

SCULPTURE
Grade Level: 9-12
Prerequisite: None
Course Length: 1 semester
Credits Earned: 1

Sculpture is a course studying 3-Dimensional art forms and involves the study of modern sculptors and a variety of sculptural methods and concepts such as figurative, conceptual, relief, and subtractive forms of sculpture. Students will produce portfolio quality work using additive and subtractive methods and a variety of materials including paper, cardboard, wood, metal, stone, plaster, and other 3D materials. Concepts will be taught through the study of art history, criticism, aesthetics, and production techniques. Students must purchase a $10.00 materials card at the bookstore.

VISUAL COMMUNICATION I (GRAPHIC DESIGN I)
Grade Level: 10-12
Prerequisite: None
Course Length: 1 semester
Credits Earned: 1

This computer-based course emphasizes the role of visual communication in the marketplace. The students will be introduced to illustration, layout, logo design, typography, and other graphic design practices. Projects will be completed using Adobe Photoshop and Illustrator programs. The cost of materials is approx. $10.00.

VISUAL COMMUNICATIONS II (GRAPHIC DESIGN II)
Grade Level: 10-12
Prerequisite: Visual Communications I
Course Length: 1 semester
Credits Earned: 1

This computer-based course builds on the principles of design and computer skills learned in Graphic Design I. The art of illustration, layout, and computer rendered graphics will be taken to a higher level. Computer applications will include the use of Adobe Illustrator, Photoshop, and InDesign. Students will look at relevant design problems facing today’s graphic designers. Concepts will be taught through the study of art history, criticism, aesthetics, and production techniques.

DC3 VISUAL COMMUNICATIONS II* (GRAPHIC DESIGN II) (P105 PFW)
Grade Level: 10-12
Prerequisite: Visual Communications I
Course Length: 1 semester
Credits Earned: 1

This computer-based course builds on the principles of design and computer skills learned in Graphic Design I. The art of illustration, layout, and computer rendered graphics will be taken to a higher level. Computer applications will include the use of Adobe Illustrator, Photoshop, and InDesign. Students will look at relevant design problems facing today’s graphic designers. Concepts will be taught through the study of art history, criticism, aesthetics, and production techniques. The cost of materials is approx. $10. Honors Visual Communication II is offered as a dual credit course through the Collegiate Connection program at Purdue University Fort Wayne. Students have the option of receiving 3 college credits in Digital Imaging (VCD P105) through PFW. A desire to earn these credits must be communicated to the student’s counselor at the time of completing the course selection sheet. Dual credit costs for 2017-18 were $315.30.
CERAMICS I
Grade Level: 10-12
Prerequisite: None
Course Length: 1 semester
Credits Earned: 1

Students will experience several different methods of working with clay, including pinch, loaf, coil, and slab handbuilding techniques. Students will focus on design elements, clay preparation, clay construction, and glazing techniques. Concepts will be taught through the study of art history, criticism, aesthetics, and production techniques. Students may need to work some after school to meet project deadlines, especially if absences occur. **Students must purchase a tool & glaze card for $8.00 at the bookstore.**

CERAMICS II
Grade Level: 10-12
Prerequisite: Ceramics I
Course Length: 1 semester
Credits Earned: 1

Students will explore more advanced ceramics techniques. Students will focus on design principles, relief sculpture, media center research, wheelthrowing techniques, and glaze formulation. Concepts will be taught through the study of art history, criticism, aesthetics, and production techniques. Students may need to work some after school to meet project deadlines, especially if absences occur. **Students must purchase a tool & glaze card for $8.00 at the bookstore.**

CERAMICS III
Grade Level: 11-12
Prerequisite: Ceramics II
Course Length: 1 semester
Credits Earned: 1

Students will explore more advanced ceramics techniques. Students will focus on development of personal style, figurative sculpture, advanced wheelthrowing techniques, thematic design, abstraction, and raku firing. Concepts will be taught through the study of art history, criticism, aesthetics, and production techniques. Students may need to work some after school to meet project deadlines, especially if absences occur.

DC3 CERAMICS III*
(FINA S165 PFW)
Grade Level: 11-12
Prerequisite: Ceramics II
Course Length: 1 semester
Credits Earned: 1

Students will explore more advanced ceramics techniques. Students will focus on development of personal style, figurative sculpture, advanced wheelthrowing techniques, thematic design, abstraction, and raku firing. Concepts will be taught through the study of art history, criticism, aesthetics, and production techniques. Students may need to work some after school to meet project deadlines, especially if absences occur. **Students must purchase a tool & glaze card for $8.00 at the bookstore.** Ceramics III is offered as a dual credit course through the Collegiate Connection program at Purdue University Fort Wayne. Students have the option of receiving 3 college credits in Ceramics for non-majors (FINA S165) through PFW. A desire to earn these credits must be communicated to the student’s counselor at the time of completing the course selection sheet. Dual credit costs for 2017-18 were $315.30.

*Dual Credit, AP and PLTW are considered honors designations at WCS.
DRAWING I
Grade Level: 9-12
Prerequisite: None
Course Length: 1 semester
Credits Earned: 1

Students will be introduced to the fundamentals of drawing using various techniques and media. Students heighten their perception skills by studying perspective, the human figure, portraiture, shading, still life, etc. The Renaissance period of art will be studied to enhance students' appreciation of art history. Concepts will be taught through the study of art history, criticism, aesthetics, and production techniques. **Students must buy a starter packet of supplies from the bookstore for approx. $20.00. 2-D Art students may be able to use some left over supplies.**

DRAWING II
Grade Level: 10-12
Prerequisite: Drawing I
Course Length: 1 semester
Credits Earned: 1

A class that provides further development of skills from Drawing I. Introductory printmaking techniques will be studied with an emphasis on in-depth drawing. Students will be given more comprehensive projects with greater stress on expressing the individual's creativity and an emphasis on using a variety of media. Concepts will be taught through the study of art history, criticism, aesthetics, and production techniques. **Some materials may need to be added or replaced with an approx. cost of $10.00 at the bookstore.***

DRAWING III
Grade Level: 10-12
Prerequisite: Drawing II
Course Length: 1 semester
Credits Earned: 1

Our most advanced drawing class. Knowledge of perspective and figure drawing will be the groundwork for complex images. Students will be given more comprehensive projects with greater stress on expressing the individual's creativity and an emphasis on using a variety of media. More advanced printmaking techniques will be studied with an emphasis on in-depth drawing. Concepts will be taught through the study of art history, criticism, aesthetics, and production techniques. *Dual Credit, AP and PLTW are considered honors designations at WCS.*

DC3 DRAWING III*
*(FINA N108 PFW)*
Grade Level: 10-12
Prerequisite: Drawing II
Course Length: 1 semester
Credits Earned: 1

Our most advanced drawing class. Knowledge of perspective and figure drawing will be the groundwork for complex images. Students will be given more comprehensive projects with greater stress on expressing the individual's creativity and an emphasis on using a variety of media. More advanced printmaking techniques will be studied with an emphasis on in-depth drawing. Concepts will be taught through the study of art history, criticism, aesthetics, and production techniques. **Some materials may need to be added or replaced with an approx. cost of $10.00 at the bookstore. Drawing III is offered as a dual credit course through the Collegiate Connection program at Purdue University Fort Wayne. Students have the option of receiving 3 college credits in Introduction to Drawing for Non-majors (FINA N108) through PFW. A desire to earn these credits must be communicated to the student's counselor at the time of completing the course selection sheet. Dual credit costs for 2017-18 were $315.30.***
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Students must have a good background course in drawing as a basis for Painting. Various types of paints will be explored, with the emphasis on watercolor, acrylics, and an introduction to oils. The historical periods that will be studied will be from Baroque through Impressionism. A variety of artists' styles will be studied to give students a greater understanding and appreciation of painting methods. Concepts will be taught through the study of art history, criticism, aesthetics, and production techniques. **Students will be required to purchase some of their own brushes and acrylic paints at the bookstore for approx. $20.**

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Students must have a good background course in drawing as a basis for Painting. Various types of paints will be explored, with a focus on acrylics and oils. The historical timelines studied will be Post-impressionism, Expressionism, and Cubism. Concepts will be taught through the study of art history, criticism, aesthetics, and production techniques. **Students will use their brushes and paints from Painting I, but may have to purchase some paint to replenish their supply as needed.**

With an emphasis on digital photography, students explore the fundamental principles, techniques and application of camera-based image making. Students learn to use Adobe Bridge, Camera RAW, and Photoshop as a tool to manage and manipulate digital images. We also devote some time to film-based photo making techniques that utilize hand-made photographs in a dark room setting. Concepts will be taught through the study of art history, criticism, aesthetics, and production techniques. **Students may use their own camera for homework or check out a school camera overnight. Phone cameras may not be used.** The class fee is $10 to cover the cost of film processing, supplies, and digital printing. Each student must also provide their own SD memory card. The SD cards can be purchased at the bookstore for $6.50.

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This class will focus on a wide range of alternative photo techniques using both digital and film based processes. Students will develop both technical and artistic skills as they explore modern photography, abstraction, and concept integration. Students will apply their knowledge of digital photo techniques and editing software to create works of art with meaning and depth. Concepts will be taught through the study of art history, criticism, aesthetics, and production techniques. **Students may use their own camera for homework or check out a school camera overnight. Phone cameras may not be used.** The class fee is $10 to cover the cost of film processing, supplies, and digital printing. Each student must also provide their own SD memory card. The SD cards can be purchased at the bookstore for $6.50.
AP STUDIO ART: 2D/3D or DRAWING*

Grade Level: 12
Prerequisite: Minimum of 4 art classes
Application signed by an art teacher
Course Length: 2 semesters
Credits Earned: 2

This HONORS course is for serious students interested in building a portfolio of 24 works of art.
(1) This is an opportunity for non-art majors to earn a college elective by creating interdisciplinary art. Effective study options include pre-med, science, journalism, history, marketing, mathematics, psychology, and much more. Students will create artwork based on their academic strengths and interests.
(2) Career art students can create from their preferred focus area such as architecture, sculpture, ceramics, graphic design, animation, fashion, interior design, film-making, illustration, industrial design, photography, video game design, cartooning, fine art, etc.

All students will select their favorite mediums to work with. Creating artwork that has intellectual and esthetic depth and integrity is the objective. We emphasize a mastery of technique, strong use of the elements and principles of design, and the development of personal style. Students will be required to work daily outside of class. Concepts will be taught through the study of art history, criticism, aesthetics, and production techniques. Student portfolios will be critiqued nationally at Scholastics and the College Board, and they will exhibit locally including the Tri-Kappa Spring Art Show with a senior showcase. For more details, please stop by the art department.

Students are required to participate in the AP program and pay the fee for that program. The 2017-18 fee was $94 and has increased each year. Financial assistance may be available for a portion of the cost for qualified students.

*Dual Credit, AP and PLTW are considered honors designations at WCS.
FINE ARTS/
VOCAL MUSIC & MUSIC THEORY

All Classes in this section fulfill the requirement for Fine Arts for Core 40 with Academic HONORS Diploma

WCHS choral department has a tradition of success in the area of choral music. A good sense of pitch and a good attitude are the important factors for participation as a choral student. Auditions are open to all students who are entering the appropriate grades. The choral department is divided into the following groups:

BEGINNING CHORUS (MEN)
Grade Level: 9-12
Prerequisite: None
Course Length: 2 semesters
Credits Earned: 2

BEGINNING CHORUS (WOMEN)
Grade Level: 9-12
Prerequisite: None
Course Length: 2 semesters
Credits Earned: 2

All freshmen will select this course but they are open to all grade levels.

These classes meet all year and participate in at least four concerts and choral contest. Solo and small group opportunities will also be available to those interested, as well as work with tone chimes. The classes will each perform independently, but will also combine on selected numbers. Grade is based upon the student's classwork, participation in programs and rehearsals. Chorus will help the student to develop their musical skills through: Singing with good tone quality, proper breath support and vowel pronunciation. Music reading, musical symbols, music theory, and notation. Performance poise and discipline are also stressed.

INTERMEDIATE CHORUS (Concert Choir)
Grade Level: 10-12
Prerequisite: Beginning Chorus, Audition
Course Length: 2 semesters
Credits Earned: 2

This class is an auditioned group of approximately 40 students which perform a variety of sacred and secular works. They sing four concerts participate in choral contest, sing a year-end concert and participate in graduation. Class admittance is by director’s approval. The opportunity for solo & ensemble is also available to this group. Good choral technique and blend is stressed as well as development of the singing voice and the musicianship of each student. Re-evaluation of a student's placement may occur during the year at the director's discretion.

ADVANCED CHORUS (Select Chorale)
Grade Level: 10-12
Prerequisite: Audition
Course Length: 2 semesters
Credits Earned: 2

ADVANCED CHORUS (Women)
Grade Level: 10-12
Prerequisite: Audition
Course Length: 2 semesters
Credits Earned: 2

A more select ensemble of approximately 18-25 students. This group performs more advanced musical pieces. In addition to the regular concerts and solo & ensemble, they also perform widely at community events. Auditions are held in the spring for the following year. Re-evaluation of a student's placement may occur during the year at the director's discretion.

*Dual Credit, AP and PLTW are considered honors designations at WCS.
APPLIED MUSIC (Voice)
Grade Level: 9-12
Prerequisite: None
Course Length: 1 semester
Credits Earned: 1
Freshmen enrolled must also take Beginning Chorus. This class is for students interested in improving their singing voice and performing ability. Basic diction and singing techniques will also be studied. Students will work on group singing to help develop good tone quality, breathing techniques and accuracy of pitch. The students will also study basic musicianship. Small group numbers and solo performances will be done in class. All performances will take place in class.

APPLIED MUSIC WILL BE OFFERED DURING THE 2018-2019 SCHOOL YEAR, BUT WILL NOT BE OFFERED 2019-2020

MUSIC HISTORY & APPRECIATION
Grade Level: 9-12
Prerequisite: None
Course Length: 1 semester
Credits Earned: 1
This class is designed primarily for the listener of music. Music of all areas is explored: from the primitive times up through jazz and contemporary music, stressing the elements of music, melody, rhythm, harmony, form, tempo, and dynamics. Goal is learning to listen to music with understanding. A variety of projects, presentations and evaluations will occur over the 1 semester course.

MUSIC HISTORY & APPRECIATION WILL BE OFFERED DURING THE 2019-2020 SCHOOL YEAR, BUT WILL NOT BE OFFERED 2018-2019

MUSIC THEORY & COMPOSITION I
Grade Level: 11-12
Prerequisite: Band, Choir, Piano or Teacher Recommendation
Course Length: 1 semester
Credits Earned: 1
Basic music theory and harmony is offered including keys, scales, chords, intervals, analysis of harmonies and melodic ear training. Computer notation will also be explored. **Prior band, choir or piano experience is required.** Exceptions will only be made based upon an evaluation by the instructor.

MUSIC THEORY & COMPOSITION II
Grade Level: 11-12
Prerequisite: Music Theory & Composition I
Course Length: 1 semester
Credits Earned: 1
Open to students who have successfully completed Music Theory I and are interested in writing music or expanding their harmony and theory background from the first theory course. Students will learn about various compositional forms and techniques during the term. Material from the AP Music Theory exam will be covered. Students will be exposed to the Finale music-writing program.

*Dual Credit, AP and PLTW are considered honors designations at WCS.*
HEALTH AND PHYSICAL EDUCATION

PHYSICAL EDUCATION I & II
MEN’S OR WOMEN’S
Grade Level: 9
Prerequisite: None
Course Length: 2 semesters
Credits Earned: 2

PE I continues to build upon concepts and fitness levels developed at the middle school level. This program includes skill development and the application of rules and strategies of complex difficulty in at least three of the following different movement forms: (1) health-related fitness activities (cardiorespiratory endurance, muscular strength and endurance, flexibility, and body composition), (2) aerobic exercise, (3) team sports, (4) outdoor pursuits, and (5) recreational games. Ongoing assessment includes written and performance-based skill evaluations.

The emphasis for this course is on health-related fitness and developing the skills and habits necessary for a lifetime of physical activity. Students will have the opportunity to actively participate in aquatics, fitness and conditioning routines, individual physical activities, team sports, and dual sports. Ongoing assessments include written and performance-based skill evaluations. Successful completion of all activities is a requirement to pass the course.

PE II stresses a planned and sequential development of advanced fitness levels, skills and knowledge established in PE I. Students will demonstrate their understanding of strategies, movement forms and patterns in newly applied situations and activities. They will demonstrate their improving fitness levels in personal fitness programs designed to meet their fitness goals. Emphasis will be placed on pursuing a life-long level of fitness that allows them to maintain a healthy body. Activities will include: outdoor pursuits, individual and group fitness activities, team, dual and individual sports. Ongoing assessments include written and performance-based skill evaluations. Successful completion of all activities is a requirement to pass the course.

Required Course:
Physical Education I & II or one semester of PE and a waiver must be successfully completed before taking any elective Physical Education courses. Both courses are fitness-based courses and students will learn health and fitness concepts throughout the year. Several health (body weight, height, BMI, body composition, blood pressure) and fitness (cardiovascular endurance, muscular strength and endurance) areas will be assessed at the beginning and end of each term and used as an evaluation tool to determine student progress and development. Lifetime recreation activities will be a part of the weekly plan with fundamental skills and basic strategy emphasized in each activity unit. The Warsaw Community Schools Physical Education uniform and a Master Lock is required for all students.

➢ This course is required to meet state graduation requirements, Academic HONORS diploma and Core 40 requirements.
➢ Adapted Physical Education can be offered, as needed, in the least restricted environment and must be based on individual assessment.

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PE WAIVER
Grade Level: 9
Prerequisite: Athlete, Cheerleader, Marching Band, JROTC, Dance Performance I
Course Length: 1 semester
Credits Earned: 1

At WCHS, we have agreed upon a procedure for IHSAA athletes, cheerleaders, marching band members, JROTC and dance students to waive one (1) semester of PE. Each student must take one semester of PE. Incoming freshmen will have multiple options to meet their PE graduation requirement:

➤ Students can choose to take PE two terms and not request a waiver.
   or
➤ Enroll in PE Waiver program and take one semester of PE. (Athletes will collect paperwork from coach.)
   or
➤ If offered, take one session of Summer School PE and apply for waiver.

It is conceivable that an incoming freshman who took one session of Summer School PE and chose the PE Waiver would not have any required PE class for their first year.

The benefits of the PE Waiver include:

➤ Allowing athletes and cheerleaders to enroll in Advanced Weight Training (athlete weight training) during their freshmen year.
➤ Allowing any of the PE waiver students to enroll in any other course to enrich their class offerings; this could include other electives or required classes.

Requirements:

➤ Student must successfully complete one athletic or marching band season; two semesters of JROTC in good standing or Dance Performance I during their freshman year. This means the student was not removed from team or class participation as a result of: being cut*, quitting, academics, discipline, attendance, or prolonged injury*/illness*/non-participation of more than 15 school days.

*Exception: Students cut from a team or injured students can re-apply for the PE Waiver credit in another sport up through their sophomore year. Waivers are not granted to juniors or seniors.
BÉLOW IS A LISTING OF THE ELECTIVE P.E COURSES:

Elective Physical Education promotes lifetime sport and recreational activities and provides an opportunity for an in-depth study in specific areas. A minimum of two of the following activities should be included: (1) health-related fitness activities (cardiorespiratory endurance, muscular strength and endurance, flexibility and body composition), (2) team sports, (3) individual or dual sports, (4) aquatics and, (5) outdoor pursuits. It includes the study of physical development concepts and principles of sport and exercise as well as opportunities to develop or refine skills and attitudes that promote lifelong fitness. Students have the opportunity to design and develop an appropriate personal fitness program that enables them to achieve a desired level of fitness. Ongoing assessment includes both written and performance-based skill evaluation.

WEIGHT TRAINING
Grade Level: 10-12
Prerequisite: PE I & II
Course Length: 1 semester
Credits Earned: 1

Weight Training is for non-athletes only. The Weight Training course is designed with the concept of improving each student’s overall fitness level. The development of cardiovascular fitness, strength, and muscular endurance through free weight exercises, medicine ball routines and aerobic activities is the main focus of the course. Students will learn the importance of warm up and stretching and their relation to performance and fitness. Heart Rate Monitors (HRM) may be used to access students’ aerobic effort and to demonstrate the importance of training in their Target Heart Rate Zone to maximize fat loss. Fitness testing at the beginning and the end of each course will be used as an evaluation tool to determine student development and grading. Students will be exposed to a variety of different training techniques and routines based on each student’s experience and personal goals. Proper lifting and spotting techniques will be taught and reviewed throughout the course to promote safety during exercise. Topics of muscular anatomy, muscle movements, exercise physiology, nutrition, body composition, training programs, steroids and other drug use, exercise safety and flexibility will be covered and assessed.

ATHLETE DEVELOPMENT (formerly Athlete Weight Training)
Grade Level: 9-12
Prerequisite: Coach Approval
Course Length: 1 semester
Credits Earned: 1

May be taken 2 semesters each year. The Athlete Development course is specifically designed for all WCHS athletes to develop their strength and fitness levels during pre-season and post season training. Students will take part in designing individualized workouts for themselves based on their physical needs and expectations for their chosen sports. In addition to learning and performing Olympic-style lifting, students will be training in: plyometrics to improve explosiveness, medicine ball training to improve core musculature and balance, and speed training to further develop straight-ahead and lateral running speed. Students will be assessed on their understanding and demonstration of the wide variety of training techniques, theory and application taught during class.

LIFE TIME RECREATION AND SPORTS I
Grade Level: 10-12
Prerequisite: PE I & II
Course Length: 1 semester
Credits Earned: 1

This course is for the student who wants to participate in high-level and challenging individual, partner and team sports activities and learn about organizing competitions, officiating and creating group activities. In addition to actively participating in fitness routines, skill drills and competitions, students will have the opportunity to teach, officiate and organize group activities in addition to creating an “Original Game”. Students are expected to learn and demonstrate advanced skills and strategies to assist them in performing at high levels of play. Activities that may be included in this course are: Bowling, Badminton, Softball, Lacrosse, Basketball, Volleyball, Floor Hockey, Flickerball and Ultimate Frisbee.

*Dual Credit, AP and PLTW are considered honors designations at WCS.
**LIFE TIME RECREATION AND SPORTS II**
Grade Level: 10-12  
Prerequisite: PE I & II  
Course Length: 1 semester  
Credits Earned: 1  

This course is for the student who wants to participate in high-level and challenging individual, partner and team sports activities and learn about organizing competitions, officiating and creating group activities. In addition to actively participating in fitness routines, skill drills and competitions, students will have the opportunity to teach, officiate and organize group activities in addition to creating an “Original Game”. Students are expected to learn and demonstrate advanced skills and strategies to assist them in performing at high levels of play. Activities that may be included in this course are: Tennis, Pickleball, Wall Ball, Swimming, Flag Football, Soccer, Passball and Frisbee Golf.

**WOMEN’S FITNESS**
Grade Level: 10-12  
Prerequisite: PE I & II  
Course Length: 1 semester  
Credits Earned: 1  

The Women’s Fitness course is designed for female non-athletes who have a sincere desire to improve their level of fitness and health. The objectives of the class are: to improve each student’s fitness level, to educate about and reinforce concepts of fitness and health (exercise, nutrition, body composition and female health risks/concerns), and to introduce a wide variety of physical fitness activities in a non-threatening environment. Resistance training (free weights, resistance cords and medicine balls) will be a part of the weekly fitness routine in addition to a wide variety of cardiovascular activities (Tae-Bo, STEP aerobics, jogging and more). Students will maintain a journal to document personal eating habits. Students at or below their ideal body weight and composition should consult with the instructor prior to taking this class due to health risks.

**BODY TRANSFORMATION**
Grade Level: 10-12  
Prerequisite: PE I and II  
Course Length: 1 Semester  
Credits earned: 1  

This course is designed for students interested in and capable of making substantial changes in their fitness levels and improved body composition. Based on High Intensity Interval Training (T25/P90X) systems, students will be involved with fitness level appropriate workouts weekly in class and outside of class on days when time is dedicated to nutrition education and dietary modifications. Student progress will be tracked throughout the course to determine improvements in body composition, BMI, body weight and cardiovascular fitness levels.

**OUTDOOR EDUCATION**
Grade Level: 10-12  
Prerequisite: None  
Course Length: 1 Semester  
Credits earned: 1  

Outdoor Education is a course designed for students interested in learning about, or furthering their knowledge about: wilderness survival skills, camping, wildlife conservation, archery, hunter education, boating safety, orienteering and wildlife identification. This course will involve classroom education sessions along with hands-on experience in the outdoors to allow for student practice of learned skills and activities. Upon successful completion of the course, students will earn their Hunter Safety certification and license.

**PHILOSOPHY OF COACHING**
Grade Level: 11-12  
Prerequisite: PE I & II  
Course Length: 1 Semester  
Credits earned: 1  

Philosophy of Coaching: This course will provide students with the opportunity to form their own philosophy of coaching while learning various strategies in leadership, communication, and skill evaluation. Course content will include development of a coaching philosophy, planning and executing an effective sports program (practice planning, fitness programming, game-day planning, etc.), motivation strategies, and sport-specific teaching strategies in a variety of sports.
**LIFE GUARDING**

Grade Level: 10-12  
Prerequisite: See below  
Course Length: 1 semester  
Credits Earned: 1

The purpose of the American Red Cross Lifeguarding course is to provide entry-level lifeguard participants with the knowledge and skills to prevent, recognize and respond to aquatic emergencies and to provide care for breathing and cardiac emergencies, injuries and sudden illnesses until emergency medical services (EMS) personnel take over.

**Prerequisites**
1. Must be 15 years old on or before the final scheduled session of this course.
2. Swim 300 yards continuously demonstrating breath control and rhythmic breathing. Candidates may swim using the front crawl, breaststroke or a combination of both but swimming on the back or side is not allowed. Swim goggles may be used.
3. Tread water for 2 minutes using only the legs. Candidates should place their hands under the armpits.
4. Complete a timed event within 1 minute, 40 seconds.
   - Starting in the water, swim 20 yards. The face may be in or out of the water. Swim goggles are not allowed.
   - Surface dive, feet-first or head-first, to a depth of 7 to 10 feet to retrieve a 10-pound object.
   - Return to the surface and swim 20 yards on the back to return to the starting point with both hands holding the object and keeping the face at or near the surface so they are able to get a breath. Candidates should not swim the distance under water. Exit the water without using a ladder or steps.

This course includes a mandatory $35 fee to Red Cross for materials and certifications which is not included in textbook fees.

**HEALTH & WELLNESS**

Grade Level: 10  
Prerequisite: None  
Course Length: 1 semester  
Credits Earned: 1

This course is a state requirement for graduation. It provides a basis for continued methods of developing knowledge, concepts, skills, behaviors, and attitudes related to student health and well-being. The curriculum includes Growth and Development, Mental and Emotional Health, Community and Environmental Health, Nutrition, Family Life Education, Consumer Health, Alcohol, Tobacco, and Other Drugs Education, Intentional and Unintentional Injury, and Health Promotion and Disease Prevention.

**LIFE GUARDING (renewal)/WSI**

Grade Level: 10-12  
Prerequisite: 16 years old plus renewal of lifeguard certification.  
Course length: 1 semester,  
Credits Earned: 1

The purpose of the American Red Cross Water Safety Instructor course is to train instructor candidates to teach courses and presentations in the American Red Cross Swimming and Water Safety program by developing their understanding of how to use the course materials, how to conduct training sessions and how to evaluate participants’ progress.

**Prerequisites:**
To participate in the Water Safety Instructor course, individuals must:

- Be at least 16 years of age on or before the final scheduled lesson of this course.
- Be certified as a lifeguard or eligible for renewal
- Demonstrate the ability to perform the following swimming skills:
  1. Swim the following strokes consistent with the Stroke Performance Charts, Level 4
     - Front crawl—25 yards
     - Back crawl—25 yards
     - Breaststroke—25 yards
     - Elementary backstroke—25 yards
     - Sidestroke—25 yards
     - Butterfly—15 yards
  2. Maintain position on back for 1 minute in deep water (floating or sculling).
  3. Tread water for 1 minute.

This course includes a mandatory $35 fee to Red Cross for materials and certifications which is not included in textbook fees.

*Dual Credit, AP and PLTW are considered honors designations at WCS.*
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MATHEMATICS

The world of mathematics in some way touches each person in his/her personal life. Each person will need some knowledge of mathematics in order to be successful in life. Each student must have at least six credits of high school mathematics, earned in three 2-credit courses, to graduate from Warsaw Community High School.

Core 40 requires 6-8 credits in Algebra I, Geometry, Algebra 2, Statistics, Probability, Finite Math, Pre-Calculus, Trigonometry or Calculus. The WCHS mathematics department further recommends that all college prep students seriously consider taking Pre-Calculus as it lays the foundation for the basic math and science requirements placed on many liberal arts majors in colleges and universities.

Students intending to enter mathematics, science, engineering, technology, and other related fields should definitely plan to study advanced mathematics each of their four years in high school. Failure to do so may lead to non-credit college courses.

It is required that those students who enroll in honors level mathematics courses maintain at least a B- average in those courses. Students who cannot maintain this level of excellence will be placed in a regular level math course.

The WCHS mathematics program is designed to provide a mathematics education for students of all abilities. Since there are many non-mathematical benefits, such as the ability to think and reason more logically, clearly, and forcefully, the mathematics department encourages all students to study as much as their time, interests, and abilities allow.

NOTE: IT IS STRONGLY RECOMMENDED BY THE MATHEMATICS DEPARTMENT FACULTY THAT EACH STUDENT RECEIVE A GRADE OF C- OR HIGHER IN EACH COURSE IN ORDER TO BE PROPERLY PREPARED AND SUCCESSFUL IN SUBSEQUENT MATH COURSES

*Dual Credit, AP and PLTW are considered honors designations at WCS.
GEOMETRY
Grade Level: 10-12
Prerequisite: Algebra I
Course Length: 2 semesters
Credits Earned: 2

This course is a thorough study of plane geometry and consists of a study of points, lines, planes, angles, ratios, proportions, area, volume, triangles, and other polygons with logical reasoning and two-column proofs being explored. The students also gain skills in using the straightedge and the compass. Algebra is used throughout the course to solve problems in geometry. For this reason, if a student has not maintained a strong grade average in Algebra I, it is recommended s/he repeat Algebra I.

HONORS GEOMETRY
Grade Level: 9
Prerequisite: Strong 8th grade Algebra skills
Course Length: 2 semesters
Credits Earned: 2

This course is offered at the ninth grade level for those students who took Algebra I in the eighth grade. This course stresses logical reasoning through the development of formal proofs. The course emphasizes plane geometry, but it does refer to the concepts of space. The course also includes such topics as trigonometry, area and volume measurement, constructions and coordinate geometry. Algebra is used throughout the course to solve problems in geometry. For this reason, if a student has not maintained a strong grade average in Algebra I, it is recommended s/he repeat Algebra I.

ALGEBRA II (CP or Regular)
Grade Level: 10-12
Prerequisite: Algebra I & Geometry
Course Length: 2 semesters
Credits Earned: 2

Students enrolled will review algebraic concepts taught in Algebra I. They will also study the real number system, linear equations in one, two or three variables, inequalities in one or two variables, relations and functions, exponents, radicals, the four conic sections, and quadratic and linear functions. Logarithms and sequences/series will also be introduced.

Students will be placed in the appropriate Algebra II course, either CP or Regular, by their counselor.

HONORS ALGEBRA II
Grade Level: 9-10
Prerequisite: Honors Geometry
Course Length: 2 semesters
Credits Earned: 2

Students enrolled in HONORS Algebra II will review algebraic concepts taught in Algebra I. They will also study the real number system, linear equations in one, two or three variables, inequalities in one or two variables, relations and functions, exponents, radicals, the four conic sections, and quadratic and linear functions. This HONORS course will also study more advanced concepts including the treatment of polynomial functions, logarithms, and sequences and series.

PRE-CALCULUS
Grade Level: 10-12
Prerequisite: Algebra II (CP or Honors)
Course Length: 1 semester
Credits Earned: 1

This course is a further study of advanced algebra. It will include concepts of the real number system, relationships of equations, graphing and patterns of linear, quadratic, polynomial, exponential and logarithmic equations. In addition, it will cover arithmetic and geometric sequences and series. Students enrolling in Pre-Calculus should also enroll in Trigonometry during the same academic school year. If interested in taking Pre-Calculus & Trigonometry for Dual Credit through PFW please see the Mathematics Dual Credit Section of this Course of Study Guide.

TRIGONOMETRY
Grade Level: 10-12
Prerequisite: Algebra II (CP or Honors)
Course Length: 1 semester
Credits Earned: 1

In this course students will study a functional approach to trigonometry. Trigonometry will cover the basic trig functions, their graphs, inverse trig functions, trig equations, and trig identities. The Law of Sines and Law of Cosines, and polar coordinates will also be studied. Students enrolled in Trigonometry should also enroll in Pre-Calculus during the same academic school year. If interested in taking Pre-Calculus & Trigonometry for Dual Credit through PFW please see the Mathematics Dual Credit Section of this Course of Study Guide.

*Dual Credit, AP and PLTW are considered honors designations at WCS.
HONORS PRE-CALCULUS
Grade Level: 10-11
Prerequisite: HONORS Algebra II
Course Length: 1 semester
Credits Earned: 1

Pre-Calculus is a further study of algebra with an emphasis on the real number system, relationships of equations, and graphing patterns of linear, quadratic, and polynomial equations. Students will also study more advanced concepts like sequences, series, and limits. Exponential and logarithmic equations along with their graphs will also be studied. Students enrolling in Honors Pre-Calculus should also enroll in Honors Trigonometry during the same academic school year.

HONORS TRIGONOMETRY
Grade Level: 10-11
Prerequisite: HONORS Algebra II
Course Length: 1 semester
Credits Earned: 1

Students in Trigonometry will study a functional approach to trigonometry, which will include the basic trig functions, graphs of trig functions, inverse trig functions, trig equations and trig identities. The Law of Sines, Law of Cosines, applications of the trig functions, and polar coordinates will also be studied. Students enrolled in Honors Trigonometry should also enroll in Honors Pre-Calculus during the same academic school year.

PROBABILITY (Quantitative Reasoning)
Grade Level: 11-12
Prerequisite: Algebra II
Course Length: 1 semester
Credits Earned: 1

This course is designed to expand a student's knowledge within the realm of inferential statistics. This course studies randomly occurring events and outcomes of experiments. Students will be studying topics relating to the law of large numbers, the addition and multiplication rule, probability through simulation, counting principles, random variables, binomial, poisson, and normal distributions, and the central limit theorem.

STATISTICS (Quantitative Reasoning)
Grade Level: 11-12
Prerequisite: Algebra II
Course Length: 1 semester
Credits Earned: 1

Everyone uses statistical material every day, and most people do so without proper training. This course is designed to prepare students to enter the real world or college by providing them with better tools to gather, communicate, and analyze data. Students will be studying topics like measures of central tendency, variance, standard deviation, populations and sampling, correlation, regression, and other related topics.

FINITE MATHEMATICS
Grade Level: 11-12
Prerequisite: Pre-Calculus
Course Length: 2 semesters
Credits Earned: 2

Finite Mathematics is an umbrella of mathematical topics. It is a course designed for students who will undertake higher-level mathematics in college that may not include Calculus. Topics covered in Finite Mathematics include: counting techniques, matrices, recursion, graph theory, social choice, linear programming, and game theory. Technology, such as graphing calculators, will be used frequently.

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THE FOLLOWING COURSES CAN BE TAKEN FOR AP OR DUAL CREDIT

DC3 FINITE MATHEMATICS*
(Finite Math MA213 PFW)
Grade Level: 11-12
Prerequisite: Pre-Calculus
Course Length: 2 semesters
Credits Earned: 2

Finite Mathematics is an umbrella of mathematical topics. It is a course designed for students who will undertake higher-level mathematics in college that may not include Calculus. Topics covered in Finite Mathematics include: counting techniques, matrices, recursion, graph theory, social choice, linear programming, and game theory. Technology, such as graphing calculators, will be used frequently. **Finite Mathematics is offered as a dual credit course through the Collegiate Connection program at Purdue University Fort Wayne. Students have the option of receiving 3 college credits in Finite Mathematics (MA 213) through PFW. A desire to earn these credits must be communicated to the student's counselor at the time of completing the course selection sheet. Dual credit costs for 2017-18 were $75.**

AP CALCULUS AB*
Grade Level: 11-12
Prerequisite: Honors Pre-Calculus
Cum GPA of a B or better, passed ECA or ISTEP graduation exam
Course Length: 2 semesters
Credits Earned: 2

AP Calculus is an HONORS course based on content established by the College Board. Calculus AB is primarily concerned with developing students’ understanding of the concepts of calculus and providing experience with its methods and applications. The course emphasizes a multi–representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. The connections among these representations are also important. Topics include: (1) functions, graphs, and limits; (2) differentiation; (3) applications of differentiation; (4) integration; (5) applications of integration. Students who have successfully completed HONORS Pre-Calculus and HONORS Trigonometry and who complete assigned review over the summer will be prepared to take this course. Graphing calculators are required as a tool to be used in this course. Students enrolled in this course will have the option to earn four PFW credits in MA 165, Analytic Geometry and Calculus I. A desire to earn these credits must be communicated to the student’s counselor at the time of completing the course selection sheet.

Students enrolled in the AP section are required to participate in the AP program and pay the fee for that program. The 2017-18 fee was $94 and has increased each year. Financial assistance may be available for a portion of the cost for qualified students.

Students enrolled in the dual credit option will take quarterly exams. Dual credit costs for 2017-18 were $100.

Students planning to continue on to AP Calculus BC must take the AP exam even if enrolled in dual credit and must earn a score of 2 or higher on this exam.

DC4 CALCULUS AB*
(Analytic Geom Calc I MA165 PFW)
Grade Level: 11-12
Prerequisite: Honors Pre-Calculus
Cum GPA of a B or better, passed ECA or ISTEP graduation exam
Course Length: 2 semesters
Credits Earned: 2

AP Calculus is an HONORS course based on content established by the College Board. Calculus AB is primarily concerned with developing students’ understanding of the concepts of calculus and providing experience with its methods and applications. The course emphasizes a multi–representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. The connections among these representations are also important. Topics include: (1) functions, graphs, and limits; (2) differentiation; (3) applications of differentiation; (4) integration; (5) applications of integration. Students who have successfully completed HONORS Pre-Calculus and HONORS Trigonometry and who complete assigned review over the summer will be prepared to take this course. Graphing calculators are required as a tool to be used in this course. Students enrolled in this course will have the option to earn four PFW credits in MA 165, Analytic Geometry and Calculus I. A desire to earn these credits must be communicated to the student’s counselor at the time of completing the course selection sheet.

*Dual Credit, AP and PLTW are considered honors designations at WCS.*
AP CALCULUS BC*
Grade Level: 12
Prerequisite: Calculus AB (Min score of 2 on AP Exam) Cum GPA of a B or better, passed ECA or ISTEP graduation exam
Course Length: 2 semesters
Credits Earned: 2

Advanced Placement Calculus BC is an honors course in which the student will prepare for the College Board's advanced placement exam in Calculus BC. Topics include: (1) functions, graphs, and limits: analysis of graphs, limits, asymptotic and unbounded behavior, continuity, and parametric, polar, and vector functions, (2) derivatives: derivative at a point, derivative as a function, computation and applications of first and second derivatives, (3) integrals: interpretations and properties of definite integrals, applications of integrals, fundamental theorem of calculus, techniques of antidifferentiation, and numerical approximations, and (4) polynomial approximations and series: concept of series, series of constants, and Taylor series. Students enrolled in the AP section are required to participate in the AP program and pay the fee for that program. The 2017-18 fee was $94 and has increased each year. Financial assistance may be available for a portion of the cost for qualified students.

DC4 CALCULUS BC*
(Analytic Geom Calc II MA166 PFW)

Calculus BC is an honors course in which the student will prepare for the College Board's advanced placement exam in Calculus BC. Topics include: (1) functions, graphs, and limits: analysis of graphs, limits, asymptotic and unbounded behavior, continuity, and parametric, polar, and vector functions, (2) derivatives: derivative at a point, derivative as a function, computation and applications of first and second derivatives, (3) integrals: interpretations and properties of definite integrals, applications of integrals, fundamental theorem of calculus, techniques of antidifferentiation, and numerical approximations, and (4) polynomial approximations and series: concept of series, series of constants, and Taylor series.

Students enrolled in dual credit will take quarterly exams.
This course is offered as a dual credit course through the Collegiate Connection program at Purdue University Fort Wayne. Students have the option of receiving 4 college credits in Analytic Geometry and Calculus II (MA 166) through PFW. A desire to earn these credits must be communicated to the student’s counselor at the time of completing the course selection sheet. Dual credit costs for 2017-18 were $100.
*Dual Credit, AP and PLTW are considered honors designations at WCS.

DC6 PRE-CALCULUS and TRIGONOMETRY*
(Alg Trig MA153 MA154 PFW)
Grade Level: 10-12
Prerequisite: B- or better grade in Algebra II, Cum GPA of a B or better, passed ECA or ISTEP graduation exam
Course Length: 2 semesters
Credits Earned: 2

This course is offered as a dual credit course through the Collegiate Connection program at Purdue University Fort Wayne. Students have the option of receiving 6 college credits in Algebra and Trigonometry I & II (MA 153 / MA 154) through PFW. A desire to earn these credits must be communicated to the student’s counselor at the time of completing the course selection sheet. Dual credit costs for 2017-18 were $150 for 6 credits.

Students must meet the enrollment requirements for PFW to enroll in this course. Additionally, students must earn a B- or better in Pre-Calculus (Math 153), in order to be accepted into the second part of the sequence, Trigonometry (Math 154).

AP STATISTICS*
Grade Level: 11-12
Prerequisite: Algebra II CP or Honors Algebra II
Course Length: 2 Semesters
Credits Earned: 2

The AP Statistics course is equivalent to a one-semester, introductory, non-calculus-based college course in statistics. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes in the AP Statistics course: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding.

Students enrolled in the AP section are required to participate in the AP program and pay the fee for that program. The 2017-18 fee was $94 and has increased each year. Financial assistance may be available for a portion of the cost for qualified students.
SCIENCE

Courses in the science curriculum at Warsaw Community High School are designed to:
- Develop an understanding of the science concepts that show the orderly occurrences in nature.
- Give practice in solving challenging problems through the experimental design process and scientific argumentation.
- Engage the student to think and reason in a way that will lead to logical solutions to problems.
- Students are encouraged to discuss, analyze, predict, develop skills and apply scientific concepts to problems in everyday life.

The course offerings are varied enough to be relevant to the average citizen living in a scientific world as well as to prepare students with a solid background leading to a scientific career. The courses are activity-centered and built around laboratory experiences.

**BIOLOGY I**
Grade Level: 8-10  
Prerequisite: None  
Course Length: 2 semesters  
Credits Earned: 2

Upon completion of Biology I, students will be able to describe principles of ecology including the flow of energy in ecosystems, nutrient cycles, interactions between organisms in populations, and how populations change in size and distribution. Students will also be able to describe cellular structure and function, including the concepts of metabolism and cell division. Students will also study the fundamentals of Mendelian genetics, learn the general structure of DNA and describe the processes of replication, transcription, and translation. The latter part of Biology I-B will explore the principles of evolution and how scientists group organisms. Students will take part in lectures, hands-on activities, research projects, and labs while in Biology I.

At the end of Biology I, students will take a standardized ISTEP required by the State of Indiana and must pass the class in order to meet graduation requirements.

**ENVIRONMENTAL SCIENCE**
Grade Level: 10-12  
Prerequisite: Completed Biology I  
Course Length: 2 semesters  
Credits Earned: 2

Environmental Science is an interdisciplinary course that integrates biology, chemistry, geology, and geography. Students enrolled in this course will study how the natural world works and the dynamic interrelationships of the physical world, ecosystems, populations, and resource management. Global environmental problems will be analyzed and alternative solutions evaluated.

**AP ENVIRONMENTAL SCIENCE**
Grade Level: 10-12  
Prerequisite: Completed Environmental Science or B- or higher in Biology I and Chemistry I  
Course Length: 2 semesters  
Credits Earned: 2

AP Environmental Science is a course based on content established by the College Board. This course is designed to be the equivalent of an introductory college course in environmental science, and is interdisciplinary in nature, embracing a wide variety of topics from geology, biology, chemistry, and geography. Students enrolled in AP Environmental Science investigate the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Laboratory and field work and real-world problem solving will be an integral part of this course. See instructor for summer assignment.

Students enrolled in this course are required to take the AP Exam in May. Many universities will offer college credit or special placement to students receiving at least a 3 out of 5 on the AP Exam. The 2017-18 fee was $94 and has increased each year. Financial assistance may be available for a portion of the cost for qualified students.

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HONORS BIOLOGY II
MICROBIOLOGY/GENETICS
Grade Level: 9-12
Prerequisite: B- or higher in Biology I
Course Length: 2 semesters
Credits Earned: 2

Biology II is an advanced course with four areas of focus. The first is a laboratory and theoretical study of microorganisms in which students will conduct sterile transfers and identify unknown bacteria. This section includes the use of microscopes, autoclaves, incubators, etc. with a medical focus. The second section will introduce and explore genetics including laboratory research and experimentation. The final part of the course will involve immunology with a concentration on the response of the human body to outside stimuli and how disease can be diagnosed and treated.

HONORS ANATOMY & PHYSIOLOGY
Grade Level: 11-12
Prerequisite: Bio 1, Chemistry I
Course Length: 2 semesters
Credits Earned: 2

In this course students will learn about the most wondrous of all structures, the human body. This class will provide and in-depth study of the body tissues, the principles of support and movement, and the nervous system. Students are exposed to basic body processes such as digestion, respiration, circulation, reproduction, and immunology. There is an emphasis on the interrelationship of body processes and the maintenance of homeostasis. Emphasis will as be placed on the practical aspects of anatomy, from both microscopic and gross study combined with relevant physiological application to the health care professional. Clinical terms that relate to topics will be identified and defined. The lab experiences will include microscopic study of cells and tissues dissection, and viewing of a professionally taped human autopsy. This is an academically intense course that requires a motivated student.

HONORS BIOLOGY II ZOOLOGY
Grade Level: 10-12
Prerequisite: B- or higher in both Biology I and Chemistry I
Course Length: 2 semesters
Credits Earned: 2

Biology II-Zoology is an extended laboratory, field, and lecture investigation of Invertebrates and the Vertebrates. Students who enroll in this course will study the comparative anatomy and physiological functions of the various groupings of animals. Students will research native species found in Indiana for each group of animal studied. Labs will involve an in depth analysis of specific dissections, along with identification of specific anatomical features. Microscopic work will also be involved.

AP BIOLOGY*
Grade Level: 11-12
Prerequisite: B- or higher in Biology I, Chemistry I, Algebra II, and have taken a PLTW class or Honors Biology II class.
Course Length: 2 semesters
Credits Earned: 2

AP Biology is a fast-paced science course equivalent to a college course taken by biology majors during their first year of college. This course differs significantly from Biology I with respect to the kind of textbook used, the range and depth of topics covered, the kind of laboratory work done by students, and the time and effort required by the student.

The purpose of this course is for students to develop an enduring understanding of biological concepts; to develop their problem-solving skills; realize that science is a process rather than as an accumulation of unrelated facts; and to prepare students for further study in the biological sciences.

A variety of teaching strategies will be used throughout this course including formal lecture, class discussion, research projects, hands-on activities, student-led presentations, animations, and videos.

Students enrolled in this course are required to take the AP Exam in May. Many universities will offer college credit or special placement to students receiving at least a 3 out of 5 on the AP Exam. The 2017-18 fee was $94 and has increased each year. Financial assistance may be available for a portion of the cost for qualified students.

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INTEGRATED CHEMISTRY-PHYSICS
Grade Level: 10-12
Prerequisite: Algebra I & Biology I
Course Length: 2 semesters
Credits Earned: 2

Integrated Chemistry and Physics is a lab science course in which students will explore basic chemistry and physics principles. Students will examine scientific inquiry, properties and structure of matter, chemical reactions, forces, motion, and the interactions between energy and matter. In the laboratory setting, students will investigate chemical and physical real world problems that have personal and social consequences outside of the classroom.

CHEMISTRY I
Grade Level: 9-12
Prerequisite: B- or higher in Algebra I
Course Length: 2 semesters
Credits Earned: 2

This course provides students with an understanding of chemical principles and skills that are needed for college. The study of chemistry incorporates laboratory investigation, problem solving activities, lecture and class discussion. It includes a study of the metric system, dimensional analysis, density, atomic structure, physical and chemical properties of matter, formulas, gas laws, stoichiometry, solutions, equilibrium and acids and bases. This course is heavily based in Algebra.

HONORS CHEMISTRY II
Grade Level: 10-12
Prerequisite: B- or higher in Chem. I & completed or enrolled in Algebra II
Course Length: 2 semesters
Credits Earned: 2

In this college preparatory course students will practice and apply advance mathematical relationships of matter and energy through predictions, laboratory, investigation, and analysis. The curriculum focuses on an in-depth study of solutions, stoichiometry, kinetics, redox reactions, and includes an introduction to organic chemistry. This is an HONORS course that requires higher-level thinking, problem-solving, spatial reasoning, and laboratory procedural skills.

AP CHEMISTRY*
Grade Level: 12
Prerequisite: B- or higher in Chemistry II and completed Algebra II *
Course Length: 2 semesters
Credits Earned: 2

Advanced Placement Chemistry is a course that follows curriculum established by the College Board and is designed to be the equivalent of an introductory college Chemistry course. Students will build on previous chemical understanding to explore topics such as atomic structure, bonding, chemical equilibrium, kinetics and thermodynamics. A large portion of class time is also spent conducting several college-level & guided inquiry laboratory experiments covering methods such as gravimetric analysis, acid-base titrations and spectroscopy. Students will be challenged to develop their own methodology for lab investigation to more closely mimic the nature of scientific thinking and to sharpen critical thinking and problem-solving skills. See instructor for summer assignment.

Due to the nature and rigor of this course, many universities will award college credit or special placement to students who score well on the AP Exam. Students enrolled in this course are required to take the AP Exam in May. The 2017-18 fee was $94 and has increased each year. Financial assistance may be available for a portion of the cost for qualified students.

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PHYSICS I
Grade Level: 10-12
Prerequisite: Completed Geometry with an average of B- or higher and enrolled in Algebra II
Course Length: 2 semesters
Credits Earned: 2

This is an introductory class in physics. It has a high emphasis on mathematical operations to assist the student in understanding the physical world. Solid math skills are a must for success in this class! This class will build knowledge through a variety of labs and demonstrations designed to apply the conceptual knowledge gained. We will use our critical thinking skills to solve problems that involve motion, forces, energy, momentum, power, circuits, and waves including sound and light.

AP PHYSICS I: Algebra Based*
Grade Level: 11-12 or instructor approval
Prerequisite: Pre-Calculus (or concurrent)
Course Length: 2 semesters
Credits Earned: 2

This course is the equivalent to a first-semester college course in algebra-based physics. This class should be taken by students who want college credit in a NON-STEM related major. Students will have the opportunity to earn college credit for scoring a 3 or higher on the AP Exam in May. The course covers topics including kinematics, dynamics, energy, momentum, oscillations, and gravitation. This course will model these physical phenomena, both qualitatively and quantitatively. We will rely heavily on our quantitative models, so mathematics is an important tool. We will use algebra, geometry, trigonometry and calculus. See Physics instructor for summer assignment.

Students enrolled in this course are required to take the AP Exam in May. The 2017-18 fee for the exam was $94 and has increased each year. Financial assistance may be available for a portion of the cost for qualified students.

AP PHYSICS C: Mechanics*
Grade Level: 11-12 or instructor approval
Prerequisite: AP Calculus AB (or concurrent)
Course Length: 2 semesters
Credits Earned: 2

This course is the equivalent to a first-semester college course in calculus-based physics. This class should be taken by students who want college credit in a STEM related major. Students will have the opportunity to earn college credit for scoring a 3 or higher on the AP Exam in May. The course covers Newtonian mechanics, work, energy, power, and mechanical waves and sound. It will also introduce electric circuits. See Physics instructor for summer assignment.

Students enrolled in this course are required to take the AP Exam in May. The 2017-18 fee for the exam was $94. Financial assistance may be available for a portion of the cost for qualified students.

AP PHYSICS C: Electricity and Magnetism*
Grade Level: 12
Prerequisite: Completed AP Physics C: Mechanics with a B- or higher, Completed AP Calculus AB with a B- or higher, AP Calculus BC (or concurrent)
Course Length: 2 semesters
Credits Earned: 2

This course is the equivalent to a second-semester college course in calculus-based physics. This class should be taken by students who want college credit in a STEM related major. Students will have the opportunity to earn college credit for scoring a 3 or higher on the AP Exam in May. The course covers topics including electrostatics, conductors, capacitors, dielectrics, electric circuits, magnetic fields and electromagnetism. This course will model these physical phenomena, both qualitatively and quantitatively. We will rely heavily on our quantitative models, so a strong mathematical background is a necessity. We will use algebra, geometry, trigonometry and calculus. See Physics instructor for summer assignment.

Students in this course are required to take the AP Exam in May. The 2017-18 fee for the exam was $94. Financial assistance may be available for a portion of the cost for qualified students.

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EARTH AND SPACE SCIENCE
Grade Level: 9-10
Prerequisite: None
Course Length: 2 semesters
Credits Earned: 2

This course is an introduction to Geology, Oceanography, Meteorology, and Astronomy. Students will discover the stars and galaxies found within the universe as well as the role of gravity and other forces that determine the motion of bodies in the solar system. Students will also examine the layers of the Earth and the processes of rock formation, weathering, sedimentation, and reformation that continually shape the surface of the Earth. The students will gain an understanding of structure and circulation of the Earth’s atmosphere and hydrosphere. Students will also investigate how humans interact with these processes and how the dynamic Earth in turn impacts our human society.

EARTH AND SPACE SCIENCE II
Grade Level: 11-12
Prerequisite: B- or better in Biology
Course Length: 2 semesters
Credits Earned: 2

This course is an extended laboratory, field and literature investigations-based course whereby students apply concepts from other scientific disciplines in synthesizing theoretical models of earth and its interactions with the macrocosm. Students will examine various earth and space science phenomena, such as structure, composition, and interconnected systems of earth and the various processes that shape it, as well as earth’s lithosphere, atmosphere, hydrosphere, and celestial environment. Students analyze and apply the unifying themes of earth and space science as part of scientific inquiry.

*Dual Credit, AP and PLTW are considered honors designations at WCS.*
Social Studies Department

Freshman Courses

- World History & Civilization A
- World History & Civilization B
- Geography & History of the World A
- Geography & History of the World B

Sophomore Courses

- World History & Civilization A
- World History & Civilization B
- Geography & History of the World A
- Geography & History of the World B

  +AP World History (may replace world history or world geography for graduation requirement)
  - Sociology (Recommended GPA=B)
  - Psychology (Recommended GPA=B)
  +AP European History (By permission for Honors English Students)

Junior Courses

- World History & Civilization A
- World History & Civilization B
- Geography & History of the World
- Sociology
- Psychology

  +AP World History
  +AP European History
  U.S. History or U.S. History/English 11CP Integrated (Graduation Requirement) May choose dual credit option
  +AP U.S. History (Replaces US History)

Senior Courses

- +AP World History
- World History & Civilization A & B
- Geography & History of the World A & B
- Sociology
- Psychology

  +AP European History
  Economics (Graduation Requirement) May choose dual credit option
  U.S. Government (Graduation Requirement) May choose dual credit option
  Economics - Dual Credit (Replaces Econ)
  +AP Government (Replaces Gov.)

*Dual Credit, AP and PLTW are considered honors designations at WCS.*
**SOCIAL STUDIES**

**STUDENTS MUST TAKE:**
- **2 SEMESTERS OF GEOGRAPHY & HISTORY OF THE WORLD OR**
- **2 SEMESTERS OF WORLD HISTORY & CIVILIZATION OR**
- **AP WORLD HISTORY AS 2 OF THEIR 6 CREDITS IN SOCIAL STUDIES NEEDED TO GRADUATE**

**WORLD HISTORY & CIVILIZATION A & B**
- **Grade Level:** 9-12
- **Prerequisite:** None
- **Course Length:** 1 semester each
- **Credits Earned:** 2 total when both complete

World History & Civilization A is a study of many ancient cultures, with an emphasis on early civilizations. The course includes a look at prehistory, the establishment of early river valley civilizations, and the development of the classical civilizations of the Mediterranean area, Asia, the Middle East, Africa, and the Americas. The course emphasizes such themes as the interactions between cultures, the influence of geography, and the importance of the major world religions. This course offers a needed background for world civilizations courses required at most colleges and universities.

World History & Civilization B focuses on the time period from 1700's to present. The course begins with a study of the "Age of Kings" in Europe, the growth of democracy, and the study of the French Revolution. Major historical trends are emphasized, such as the influence of colonialism on regions of the world, the growth of technology, the influence of economic theorists, and the rivalries among nations which led to two world wars. Major dictatorships and the emergence and collapse of Communism are studied, and their influence on the 20th century. In the post-cold war period, the rapid changes in trade and the rapid growth of democracy are studied. Since this course takes a global view, it is helpful to every student interested in understanding present-day world events and problems. (Taken as two one semester classes.)

**AP WORLD HISTORY**
- **Grade Level:** 10-12
- **Prerequisite:** Completed Honors English
- **Course Length:** 2 semesters
- **Credits Earned:** 2

AP World History focuses on developing students’ abilities to think conceptually about world history from approximately 8000 BCE to the present and apply historical thinking skills as they learn about the past. Five themes of equal importance — focusing on the environment, cultures, state-building, economic systems, and social structures — provide areas of historical inquiry for investigation throughout the course. AP World History encompasses the history of the five major geographical regions of the globe: Africa, the Americas, Asia, Europe, and Oceania, with special focus on historical developments and processes that cross multiple regions.

This is a challenging course for the college-bound student who wishes to earn college credit with the AP test. (Sophomores may take with permission & Freshman HONORS English). Students are required to participate in the AP program and pay the fee for that program. The 2017-18 fee was $94 and has increased each year. Financial assistance may be available for a portion of the cost for qualified students.

**GEOGRAPHY & HISTORY OF THE WORLD A & B**
- **Grade Level:** 9-12
- **Prerequisite:** None
- **Course Length:** 1 semester each
- **Credits Earned:** 2 total when both completed

Geography and History of the World is designed to enable students to use the geographic “way of looking at the world” to deepen their understanding of major global themes that have manifested themselves over time—for example, the origin and spread of world religions; exploration; conquest, and imperialism; urbanization; and innovations and revolutions. (Taken as two one semester classes.)

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*Dual Credit, AP and PLTW are considered honors designations at WCS.*
U.S. HISTORY
Grade Level: 11
Prerequisite: None
Course Length: 2 semesters
Credits Earned: 2

This course is a rapid review of Revolutionary War and 19th Century American history, with more emphasis on the early 20th century. The course covers the main events of early American history, and explores the Progressive Era, World War I, and the 1920’s in greater detail. “U.S. History A” satisfies one of the two US History requirements for graduation. The emphasis of the second semester of this course is on the modern era of American History. It begins with the Great Depression, and goes into detail on World War II, and the post—War period. Issues include the Civil Rights movement, the Vietnam War, and more recent events in US History. U.S. History satisfies the two US History requirements for graduation.

DC6 U.S HISTORY*
(Am History I II HIS2050 GRACE)
Grade Level: 11
Prerequisite: Student must meet admission requirements of Grace College and a minimum B+ GPA.
Course Length: 2 semesters
Credits Earned: 2 (6 College credits)

Honors course in U.S. History from Age of Discovery to present. Course will follow the college syllabus. Students will become familiar with major events and themes in American History and take positions on controversies that have occurred. Political history forms the framework upon which the economic, social, cultural and intellectual history is woven. References to historical literature, source material and art are included in the course. Dual credit fees for 2017-18 were $150 ($75 per semester). Additionally, students are also expected to buy their own textbook for this course. Students must meet entrance requirements for Grace College.

AP UNITED STATES HISTORY*
Grade Level: 11
Prerequisite: See below
Course Length: 2 semesters
Credits Earned: 2

Preparation for the Advanced Placement (AP) test is a major objective, and thus, there is an emphasis on writing and self-directed study. Classroom activities include research on historical issues, writing on AP issues, increased reading assignments, and tests which involve higher level reasoning skills. The text is supplemented by additional historical sources. This course is designed for top students who enjoy the challenge of an advanced class. It is strongly recommended that students take either Geography & History of the World, Modern World History or AP World History before taking this course. Students enrolled in this course are required to take the AP Exam in May. Students are required to participate in the AP program and pay the fee for that program. The 2017-18 fee was $94 and has increased each year. Financial assistance may be available for a portion of the cost for qualified students.

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**U.S. GOVERNMENT**
Grade Level: 12  
Prerequisite: None  
Course Length: 1 semester  
Credits Earned: 1

This is a required course and must be successfully completed for graduation. The development and operation of our national, state, and local governments are taught in this course. Major emphasis is given to studying the federal system. Concepts which are taught include: a study of the national and state constitutions, citizens' rights in relation to the judicial system, citizens' responsibilities living in a democratic society, the branches of government, and how elections are conducted at both state and national levels.

**DC3 U.S. GOVERNMENT***  
* (Introduction to American Government  
POS2200 GRACE)*
Grade Level: 12  
Prerequisite: Student must meet admission requirements of Grace College and a minimum B+ GPA.  
Course Length: 1 semester  
Credits Earned: 1 (3 college credits)

This course is designed to fulfill the U.S. Government requirement. This honors course is an introduction to the operation of American government and the dynamics of American politics. The course includes information on the origin and nature of the American federal system and its present political party base. The course also covers the workings of state and local governments. Students will become familiar with the major events and themes in American government and take positions on controversies that have occurred. Political history forms the framework upon which this course is built and current themes in politics are highlighted. Simulations related to federal, state and local issues are emphasized to increase student involvement. Dual credit fees for 2017-18 were $75. Additionally, students are also expected to buy their own textbook for this course. Students must meet entrance requirements for Grace College.

**AP U.S. GOVERNMENT***
Grade Level: 12  
Prerequisite: See below  
Course Length: 2 semesters  
Credits Earned: 2

This course is designed to fulfill the U.S. Government requirement, and prepare for the Advanced Placement test. The course will challenge the student's ability to research and discuss complex political science concepts and issues. Higher levels of reasoning and problem solving will be expected. The course is developed for the social studies student who is in the upper level of his/her class and will enjoy the challenge of advanced study. Students may be recommended by other teachers. Students enrolled in this course are required to take the AP Exam in May. Students are required to participate in the AP program and pay the fee for that program. The 2017-18 fee was $94 and has increased each year. Financial assistance may be available for a portion of the cost for qualified students.
**ECONOMICS**
Grade Level: 12
Prerequisite: None
Course Length: 1 semester
Credits Earned: 1

This is a required course and must be successfully completed for graduation. This is a course of study in which seniors are exposed to one semester of basic macro-and micro-economics. The students are first introduced to the study of economics by studying what the course is about and how it relates to the field of the social sciences in general. The basic problem of supply and demand as well as the roles of industry, labor, and agriculture are explored. The role and importance of competition, the concept of profit, credit, savings, investment, insurance, and business organization and operation are explored as well. The concept of money and the relationship of wealth and income in addition to the role of government in controlling the economy will be studied. Students will be asked to develop their skills in the areas of note taking, analysis, reasoning, observation, and sequential thinking.

**DC3 ECONOMICS**
(E200 PFW)
Grade Level: 12
Prerequisite: Student must meet admission requirements of PFW and Cum GPA of a B or better.
Course Length: 1 semester
Credits Earned: 1 (3 college credits)

This Dual-Credit course through PFW is a study of the basic institutions of a market economy and role those institutions play in defining and pursuing economic goals in the US Economy. Emphasis is placed upon the effect of existing economic institutions, and current economic policy alternatives as they influence both the individual and the society. 3 credits are transferable to all public universities in Indiana. **This course is ONLY offered as a dual credit college course so students must apply and be accepted at PFW and pay the tuition or receive a tuition waiver from PFW. 2017-18 fees were $75.00. Additionally, students are also expected to buy their own textbook for this course.**

**AP EUROPEAN HISTORY**
Grade Level: 10-12
Prerequisite: See below
Course Length: 2 semesters
Credits Earned: 2

This course on modern European History is designed to prepare the student for successfully taking the AP test. Major events and themes of modern European History include: exploration & colonization, developments in intellectual and scientific thought, and the military and economic developments of modern times. Students will practice document-based writing assignments, analysis of major themes in European history, and discussion. This is a challenging course for the college-bound student who wishes to earn college credit with the AP test. (Sophomores may take with permission & Freshman HONORS English) **Students enrolled in this course are required to take the AP Exam in May. Students are required to participate in the AP program and pay the fee for that program. The 2017-18 fee was $94 and has increased each year. Financial assistance may be available for a portion of the cost for qualified students.**

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PSYCHOLOGY
Grade Level: 10-12
Prerequisite: See below
Course Length: 1 semester
Credits Earned: 1

This course has been structured for the benefit of the average to better than average student. The course is textbook oriented and lecture supplemented. The basic concepts of psychology along with a fundamental technical vocabulary and an understanding of the methods of experimental study are presented. Special emphasis is given to making the student aware of one’s individual self and one’s behavior. **Sophomores with a 3.0 grade point average and strong writing skills may apply for this class.** Final permission for sophomores to take this course must be obtained from the student’s counselor. Admission for juniors and seniors is not restricted.

SOCIOLOGY
Grade Level: 10-12
Prerequisite: None
Course Length: 1 semester
Credits Earned: 1

This course is designed to introduce students to the scientific study of human social groups. The course includes the techniques of the scientific method which are applied to the study of human behavior, the study of childhood development, the influence of social class, the study of criminology, the behavior of mobs and riots, and the study of communities. The course includes basic research experience, computer simulations, and hands-on projects. It is an excellent course for the college-bound student as well as anyone interested in human behavior.

ETHNIC STUDIES
Grade Level: 9-12
Prerequisite: None
Course length: 1 semester
Credits Earned: 1

Ethnic Studies provides opportunities to broaden students’ perspectives concerning lifestyles and cultural patterns of ethnic groups in the United States. This course will either focus on a particular ethnic group or groups, or use a comparative approach to the study of patterns of cultural development, immigration, and assimilation, as well as the contributions of specific ethnic or cultural groups. The course may also include analysis of the political impact of ethnic diversity in the United States.

INDIANA STUDIES
Grade Level: 9-12
Prerequisite: None
Course length: 1 semester
Credits Earned: 1

Indiana Studies is an integrated course that compares and contrasts state and national developments in the areas of politics, economics, history, and culture. The course uses Indiana history as a basis for understanding current policies, practices, and state legislative procedures. It also includes the study of state and national constitutions from a historical perspective and as a current foundation of government. Examination of individual leaders and their roles in a democratic society will be included and student will examine the participation of citizens in the political process. Selections from Indiana arts and literature may also be analyzed for insights into historical events and cultural expressions.

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SPECIAL NEEDS

Students identified as having a disability are assigned a Teacher of Record (TOR) and have an Individual Education Plan (IEP) that is reviewed and updated at least annually by a committee, referred to as the case conference committee. This committee, which includes the student and parent, determines the most appropriate course of study for the student based on individual criteria.

When the committee determines that the student has the potential to meet the requirements of one of the high school diploma options, the student will receive accommodations and supports identified in their IEP while meeting the expectations required of non-disabled students earning a diploma. Parents and students should refer to this guide in its entirety when selecting courses.

For some students, the case conference committee may determine that a Certificate of Completion is the appropriate avenue. The Indiana Department of Education has recently implemented changes and defined expectations for students earning a Certificate of Completion in order to ensure a high quality program that aligns with the expectations for all students. A certification of completion is not a diploma but a recognition of a student’s progress toward meeting their IEP goals.

Effective for students who enter high school in the 2018-19 school year (class of 2022) and working toward a Certificate of Completion:

The Course of Study for the Certificate of Completion is a framework for aligning curriculum to grade level standards while meeting the individual goals and transition needs stated in the student’s Individual Education Plan (IEP). The complete Course of Study for the Certificate of Completion (CoC) can be found here: https://www.doe.in.gov/student-services/student-assistance/coc

Similar to the high school diploma, students are expected to earn a minimum of 40 credits/applied units throughout their secondary school career. It is expected that these requirements are met through enrollment in a combination of general education courses for credit, modified general education courses in which non-credit applied units are earned and/or special education courses in which non-credit applied units are earned. The STARR program, Students Training for Adult Roles and Responsibilities, at WCHS and the ENRICH Program, Engaging in Relevant Instruction for Community and Home, at Gateway Education Learning Center, are two programs designed for students working toward a Certificate of Completion.

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Courses Offered for students seeking a diploma:

PEER TUTORING
Grade Level: 11-12
Prerequisite: None
Course Length: 1 semester
Credits Earned: 1 each semester with a maximum of 2 total credits earned

Peer tutoring is an elective course intended for students interested in exploring a career working with special needs students. There are two different peer tutoring experiences available. The first is with the STARR Program assisting students who are working toward a certificate. STARR stands for Students Training for Adult Roles and Responsibilities and the focus is on a life skills curriculum. The second option is to peer tutor in the resource program. This program is for students working toward a general, CORE 40 or Honors diploma. The tutor would re-teach, assist, or “buddy study” with students on their general education coursework. A peer tutor can earn two credits total in the peer tutoring program. Credits can be in the same area or one in each area.

RESOURCE STUDY HALL
Grade Level: 9-12
Prerequisite: Case Conference recommendation
Course Length: 1 semester (can be taken for 2 semesters)
Credits Earned: N/A

Resource study hall is only open to students with an Individual Education Plan (IEP) and is a case conference decision. The purpose of the resource study hall is to provide students with an opportunity to get extra assistance on academic assignments, work on organizational and study skills, or work toward additional individual goals. Students earn a grade while in the resource room in order to provide communication on their use of time and level of preparedness; however, a credit is not earned and the grade does not compute into the student’s GPA.

TEACHING EXCEPTIONAL LEARNERS
See Education Professions Course in the Business, FACS and Career and Technical Multi Period section of handbook.

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Courses offered for students seeking a Certificate of Completion:

STARR and ENRICH PROGRAMS

The purpose of all secondary educational programs is one of preparing our students for adult life. The STARR and ENRICH programs include academic instruction aligned to the general education curriculum, community based instruction, community employment, and functional skills training. The ENRICH program continues this philosophy and training for young adults with disabilities beyond their fourth year of high school with ENRICH students attending classes at the Gateway Education Center.

STARR COURSE DESCRIPTIONS

APPLIED ENGLISH
Grade Level: 9-12
Prerequisite: None
Course Length: 2 semesters
Units Earned: 2

Applied English is an integrated English course based on the Indiana Content Connectors for English/Language Arts in the students’ corresponding grade. It is a study of language, literature, composition, and communication, focusing on literature and nonfiction within an appropriate level of complexity for each individual student.

APPLIED ALGEBRA I
Grade Level: 9-12
Prerequisite: None
Course Length: 2 semesters
Units Earned: 2

Applied Algebra I formalizes and extends the mathematics students learned in the middle grades. Algebra I is made up of 4 strands: Numbers Sense, Expressions and Computation; Linear Equations, Inequalities, and Functions; Systems of Equations and Inequalities; and Quadratic and Exponential Equations and Functions. The strands are further developed by focusing on the content of the Algebra content connectors.

APPLIED PERSONAL FINANCIAL RESPONSIBILITY
Grade Level: 9-12
Prerequisite: None
Course Length: 2 semesters
Units Earned: 2

Applied Personal Financial Responsibility addresses the identification and management of personal financial resources to meet the financial needs and wants of individuals and families, considering a broad range of economic, social, cultural, technological, environmental, and maintenance factors. This course helps students build and apply skills in financial literacy and responsible decision making.

**Applied Personal Financial Responsibility will be taken in conjunction with Applied Nutrition and Wellness in order for students to have the available time to practice skills in a community setting which may include but is not limited to local grocery stores, department stores, banks, the public library, and local restaurants.

APPLIED NUTRITION AND WELLNESS (Personal Ind)
Grade Level: 9-12
Prerequisite: None
Course Length: 2 semesters
Units Earned: 2

Applied Nutrition and Wellness is an introductory course valuable for all students as a life foundation and academic enrichment. This is a nutrition class that introduces students to only the basics of food preparation so they can become self-sufficient in accessing healthy and nutritious foods.

APPLIED EARTH AND SPACE SCIENCE I
Grade Level: 9-12
Prerequisite: None
Course Length: 2 semesters
Units Earned: 2

Applied Earth and Space Science I is a course focused on the following core topics: study of the earth’s layers; atmosphere and hydrosphere; structure and scale of the universe; the solar system and earth processes. Students analyze and describe earth’s interconnected systems and examine how earth’s materials, landforms, and continents are modified across geological time.

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APPLIED INDIANA STUDIES
Grade Level: 9-12
Prerequisite: None
Course Length: 2 semesters
Units Earned: 2

Applied Indiana Studies is an integrated course that compares and contrasts state and national developments in the areas of politics, economics, history, and culture. The course uses Indiana history as a basis for understanding current policies, practices, and state legislative procedures.

APPLIED HEALTH & WELLNESS
Grade Level: 9-12
Prerequisite: None
Course Length: 1 semester
Units Earned: 1

Applied Health & Wellness, a course based on Indiana’s Academic Standards for Health & Wellness provides the basis to help students adopt and maintain healthy behaviors. Health education should contribute directly to a student’s ability to successfully practice behaviors that protect and promote health and avoid or reduce health risks.

APPLIED ELECTIVE PHYSICAL EDUCATION
Grade Level: 9-12
Prerequisite: None
Course Length: 1 semester
Units Earned: 1

Applied Elective Physical Education, a course based on selected standards from Indiana’s Academic Standards for Physical Education, identifies what a student should know and be able to do as a result of a quality physical education program. The goal of a physically educated student is to maintain appropriate levels of cardiorespiratory endurance, muscular strength and endurance, flexibility, and body composition necessary for a healthy and productive life.

APPLIED PREPARING FOR COLLEGE AND CAREERS
Grade Level: 9-12
Prerequisite: None
Course Length: 1 semester
Units Earned: 1

Applied Preparing for College and Careers addresses the knowledge, skills, and behaviors all students need to be prepared for success in college, career, and life. The focus of the course is the impact of today’s choices on tomorrow’s possibilities. Topics to be addressed include twenty-first century life and career skills; higher order thinking, communication, leadership, and management processes; exploration of personal aptitudes, interests, values, and goals; examining multiple life roles and responsibilities as individuals and family members; planning and building employability skills; transferring school skills to life and work; and managing personal resources.

APPLIED ADULT ROLES AND RESPONSIBILITIES
Grade Level: 11-12
Prerequisite: None
Course Length: 2 semesters
Units Earned: 2

Applied Adult Roles and Responsibilities is recommended for all students as life foundations and academic enrichment for students with interest in family and community services, personal and family finance, and similar areas. This course builds knowledge, skills, attitudes, and behaviors that students will need as they complete high school and prepare to take the next steps toward adulthood in today’s society.

APPLIED CAREER INFORMATION AND EXPLORATION
Grade Level: 11-12
Prerequisite: None
Course Length: 2 semesters
Units Earned: 2

Applied Career Information and Exploration provides students with opportunities to learn about themselves including interests, strengths and needed supports while exploring various traditional and nontraditional occupations and careers. Students develop skills in: (1) employability, (2) understanding the economic process, and (3) career decision making and planning.

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APPLIED CAREER EXPLORATION INTERNSHIP
Grade Level: 11-12
Prerequisite: None
Course Length: 2 semesters
Units Earned: 2

The Applied Career Exploration Internship course is a paid or unpaid work experience in the public or private sector that provides for workplace learning in an area of student career interest. Unlike a cooperative education program in which students gain expertise in a specific occupation, the career exploration internship is intended to expose students to broad aspects of a particular industry or career cluster area by rotating through a variety of work sites or departments.

APPLIED INTERDISCIPLINARY COOPERATIVE EDUCATION (ICE)
Grade Level: 11-12
Prerequisite: Applied Career Exploration
Course Length: 2 semesters
Units Earned: 2

Applied Interdisciplinary Cooperative Education (ICE) spans all career and technical education program areas through an interdisciplinary approach to training for employment. Time allocations vary by student needs, interests and goals, but include a combination of work-based learning and school-based instruction.

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WORLD LANGUAGES

The World Language Department believes that all students should have the opportunity to study a world language and that speaking a world language would be beneficial to them.

It is recommended that a student stay with one language long enough to acquire some mastery rather than gain only a minimal knowledge of two. If a student wishes to take two years of a world language only as a prerequisite for college entrance, it would be more logical to wait until the last two years of high school. Many universities require that applicants have two years of a world language for admission. Nearly all colleges and universities require world language study for graduation from the Schools of Arts and Sciences or the Humanities. The ability to use a second language can become a marketable skill as international trade and relations become more and more important to the United States. The study of a world language also enriches the appreciation and understanding of other cultures and the student's knowledge of the English language.

The World Language Department offers 5 levels of French and Spanish. Students may begin the study of a world language at any grade level from eighth through twelfth.

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Incoming native Spanish speakers with strong academic skills in reading and writing their language should investigate Spanish for Heritage Speakers as an option for earning their foreign language requirements.

SPANISH I
Grade Level: 9-12
Prerequisite: None
Course Length: 2 semesters
Credits Earned: 2

This course encourages interpersonal communication through speaking and writing, providing opportunities to make and respond to basic requests and questions, understand and use appropriate greetings and forms of address, participate in brief guided conversations on familiar topics, and write short passages with guidance. This course also emphasizes the development of reading and listening comprehension skills, such as reading isolated words and phrases in a situational context and comprehending brief written or oral directions. Additionally, students will examine the practices, products and perspectives of Spanish-speaking culture; recognize basic routine practices of the target culture; and recognize and use situation-appropriate non-verbal communication. This course further emphasizes making connections across content areas and the application of understanding Spanish language and culture outside of the classroom.

SPANISH II
Grade Level: 9-12
Prerequisite: C and above in Spanish I
Course Length: 2 semesters
Credits Earned: 2

In Spanish II, students will learn how to communicate about past events through the use of the preterite and imperfect tenses. Students will also learn how give commands/requests to other people. Additionally, students will be able to describe their daily routine through the use of the reflexive forms. Students will build on from Spanish I vocabulary, so a strong base in Spanish I content is expected. Students will also learn more cultural details of Spanish-Speaking countries throughout the year.

SPANISH III
Grade Level: 10-12
Prerequisite: C and above in Spanish II
Course Length: 2 semesters
Credits Earned: 2

Spanish 3 students can give commands to others. They can talk about injuries and simple medical terms. Students can talk about chores and give advice and make suggestions about what others should do. Students can talk about their future plans and make suggestions to others. They can describe hypothetical situations using the past subjunctive and the conditional. They can talk about art and food and cooking. They can discuss careers and celebrations. They can talk about past events using both preterit and imperfect. Writing and reading assignments are included in each unit. These assignments incorporate grammar and culture in context of the unit in study. This work is completed in a cultural setting from Latin America or Spain.

HONORS SPANISH IV
Grade Level: 11-12
Prerequisite: C and above in Spanish III
Course Length: 2 semesters
Credits Earned: 2

This HONORS course concentrates on the mastery of speaking, reading, listening and writing of the language. Spanish 4 students review traditions and cultures of Spanish speaking countries. The study of grammar is finalized in this course.
**AP SPANISH V**
Grade Level: 12
Prerequisite: B or above in Spanish IV & Teacher Recommendation after Spanish III
Course Length: 2 semesters
Credits Earned: 2

This course is conducted in Spanish, therefore the student must have good listening skills and be willing to speak and share his/her thoughts and comments on various topics in the Spanish language. The course focuses on refining all skills through the use of short stories, grammar exercises, essay writing, listening to tapes, oral presentations and daily class discussion. Native speakers are often invited as guests to speak to the class on specific topics. This course could be an independent study class, however, it must be during the teacher’s prep. Speaking in Spanish is required at all times. **Students enrolled in this course are required to take the AP Exam in May. Students are required to participate in the AP program and pay the fee for that program. The 2017-18 fee was $94 and has increased each year. Financial assistance may be available for a portion of the cost for qualified students.**

**SPANISH FOR HERITAGE SPEAKERS I**
Grade Level: 9-12
Prerequisite: High proficiency in oral Spanish. Must have one of the following: an interview with the Heritage teacher or a recommendation from another Spanish teacher
Course Length: 2 semesters
Credits Earned: 2

Spanish for Heritage Speakers is designed for native Spanish Speakers who are proficient speakers of the Spanish Language. The purpose of the course is to improve literacy, grammar terminology and public speaking skills in the Spanish language. The students of this course will have an opportunity to increase their vocabulary and writing skills as well as knowledge of Spanish Literature. This is a class specifically for native speakers who are looking to better themselves in their home language.

**SPANISH FOR HERITAGE SPEAKERS II**
Grade Level: 10-12
Prerequisite: C or better in Heritage I
Course Length: 2 semesters
Credits Earned: 2

The intent of this class is for fluent Spanish speakers who have completed the Heritage I class. Students will continue improving literacy, learn advanced grammar terminology, and enhance their public speaking abilities all in the Spanish language. They will expand their vocabulary by reading some classic and modern Spanish Literature. Students will be expected to not only read the literature, but comprehend it and respond to it with their own thoughts and opinions in the language. We will also delve into culture through different celebrations and traditions. The purpose of this class is to create fluency and improve literacy in our native speakers.

**SPANISH FOR HERITAGE SPEAKERS III**
Grade Level: 11-12
Prerequisite: C or better in Heritage II
Course Length: 2 semesters
Credits Earned: 2

The purpose of this class is for advanced, fluent Spanish speakers who have completed Heritage I and II with a C or higher. This course will spend the majority of the year exploring different Hispanic literature, both classic and modern. Students will also practice their public speaking skills through creating, preparing, and reading aloud argumentative essays, poems, songs, and short stories. Students can also expect to do a couple of service projects using the language, such as translating pamphlets for doctor’s offices, articles for local newspapers, and forms for local businesses. Students will build their vocabulary through literature, and understand some of the more advanced grammatical terms in the language. We will delve into culture by celebrating traditions, pop culture, and art. The intent of this class is to not only create fluency in the language, but to put their home language to good use in the classroom and in the community.
FRENCH I
Grade Level: 9-12
Prerequisite: None
Course Length: 2 semesters
Credits Earned: 2

This course encourages interpersonal communication through speaking and writing, providing opportunities to make and respond to basic requests and questions, understand and use appropriate greetings and forms of address, participate in brief guided conversations on familiar topics, and write short passages with guidance. This course also emphasizes the development of reading and listening comprehension skills, such as reading isolated words and phrases in a situational context and comprehending brief written or oral directions. Additionally, students will examine the practices, products and perspectives of French-speaking culture; recognize basic routine practices of the target culture; and recognize and use situation-appropriate non-verbal communication. This course further emphasizes making connections across content areas and the application of understanding French language and culture outside of the classroom.

FRENCH II
Grade Level: 9-12
Prerequisite: C and above in French I
Course Length: 2 semesters
Credits Earned: 2

Second year students must have completed French 1 or its equivalent. This course is a continuation of the basic conversational format of first year French. Students will use object pronouns and the past, and future tenses of regular and some irregular verbs. They will expand their vocabularies and their knowledge of French culture.

FRENCH III
Grade Level: 10-12
Prerequisite: C and above in French II
Course Length: 2 semesters
Credits Earned: 2

Third year French provides an advanced study of conversational structures, cultural aspects and reading and writing. Advanced verb tenses such as the imperfect, future, conditional and the subjunctive are introduced. International Video Pen palling with our friends in France will enhance the learning of French by means of “face-to-face” conversations and direct cultural exchanges.

FRENCH IV
Grade Level: 11-12
Prerequisite: C and above in French III
Course Length: 2 semesters
Credits Earned: 2

This course provides refinement of French speaking, a review of the grammar and verb tenses, and an in-depth study of French culture and history. This course concentrates on the mastery of speaking, reading, listening and writing of the language.

AP FRENCH LANGUAGE AND CULTURE*
Grade Level: 11-12
Prerequisite: B or above in French III and teacher recommendation
Course Length: 2 semesters
Credits Earned: 2

This course is designed for students who are ready for an accelerated pace of French language learning and wish to take the AP exam. The class will be characterized by academic rigor and requires self-disciplined students who can feel comfortable with ambiguity. The content of this course along with independent study prepares the student to take the Advanced Placement (AP) Test. Students enrolled in this course are required to take the AP Exam in May. Students are required to participate in the AP program and pay the fee for that program. The 2017-18 fee was $94 and has increased each year. Financial assistance may be available for a portion of the cost for qualified students.

FRENCH V
Grade Level: 12
Prerequisite: French 4 and Teacher Recommendation
Course Length: 2 semesters
Credits Earned: 2

This course is designed for the student who wants to be challenged to express him/herself in French. The instructor will conduct the course entirely in French. The class will be characterized by academic rigor and requires self-disciplined students who can feel comfortable with ambiguity. WILL NOT BE OFFERED DURING THE 2018-2019 SCHOOL YEAR

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**CHINESE I**
Grade Level: 9-12  
Prerequisite: None  
Course Length: 2 semesters  
Credits Earned: 2

Chinese I introduces students to effective strategies for beginning Chinese language learning, and to various aspects of Chinese-speaking culture. This course encourages interpersonal communication through speaking and writing, providing opportunities to make and respond to basic requests and questions, understand and use appropriate greetings and forms of address, participate in brief guided conversations on familiar topics, and write simple sentences using characters. This course also emphasizes the development of reading and listening comprehension skills, such as recognizing letters and sounds of familiar words and comprehending brief oral directions. Additionally, students will examine the practices, products and perspectives of Chinese-speaking culture; recognize basic routine practices of the target culture; and recognize and use situation-appropriate non-verbal communication. This course further emphasizes making connections across content areas and the application of understanding the Chinese language and culture outside of the classroom.

**CHINESE II**
Grade Level: 9-12  
Prerequisite: C and above in Chinese I  
Course Length: 2 semesters  
Credits Earned: 2

Chinese II students must have completed Chinese I or its equivalent. This is a continuation of the beginning Chinese language and culture. Students are expected to interpret written and spoken Chinese on a variety of topics. Advanced interpersonal communication is emphasized through a variety of developmental tasks. Students are encouraged to develop comprehension of both authentic and non-authentic written and spoken language by making educated guesses in simple and unfamiliar contexts.

**CHINESE III**
Grade Level: 10-12  
Prerequisite: C and above in Chinese II  
Course Length: 2 semesters  
Credits Earned: 2

Third year students must have completed Chinese I and II with a C- or better. Chinese III provides students an advanced study of vocabulary and sentence structure to assist them with holding more in-depth conversations on relevant topics. This course also emphasizes the continued development of listening and reading comprehension skills. Students will continue to develop an understanding of Chinese culture through various activities, such as writing to pen pals and learning about Chinese holiday celebrations. This course is expected to assist students with making connections across target content areas, such as comparing their home culture with the Chinese culture.

**HONORS CHINESE IV**
Grade Level: 11-12  
Prerequisite: C and above in Chinese III  
Course Length: 2 semesters  
Credits Earned: 2

Chinese IV will provide students who have been working on learning the Chinese language an opportunity to learn more about the language and the culture of the Chinese people. Comprehension skills will be enhanced; conversational skills will be developed as well as reading and writing the language. All of these things will be much more in depth than the previous levels.

*Dual Credit, AP and PLTW are considered honors designations at WCS.*
**GERMAN I**
Grade Level: 9-12  
Prerequisite: None  
Course Length: 2 semesters  
Credits Earned: 2  

This course encourages interpersonal communication through speaking, reading and writing, providing opportunities to make and respond to basic requests. Greetings, and other useful and familiar vocabulary will be used. Students will be able to read and respond to basic passages, and will be able to write some simple paragraphs. Additionally, students will learn about the culture of the people who speak the German language and make connections with others who speak the language.

**GERMAN II**
Grade Level: 10-12  
Prerequisite: C and above in German I  
Course Length: 2 semesters  
Credits Earned: 2  

German II builds upon effective strategies for German language learning by encouraging the use of the language and cultural understanding for self-directed purposes. This course encourages interpersonal communication through speaking and writing, providing opportunities to make and respond to requests and questions in expanded contexts, participate independently in brief conversations on familiar topics, and write cohesive passages with greater independence and using appropriate formats. This course also emphasizes the development of reading and listening comprehension skills, such as using contextual clues to guess meaning and comprehending longer written or oral directions.

**GERMAN III**
Grade Level: 11-12  
Prerequisite: C and above in I & II  
Course Length: 2 semesters  
Credits Earned: 2  

German III is for students who really enjoyed German I and II. German III students must have successfully complete German II with a C or better. More advanced skills in German are learned. The ideas expressed in the language are more advanced as is the language expressing them. Students will do more writing, reading, and speaking in the German language. Students will also study the culture of Germany and other German speaking countries.

**HONORS GERMAN IV**
Grade Level: 11-12  
Prerequisite: C and above in III  
Course Length: 2 semesters  
Credits Earned: 2  

German IV is for students who really enjoyed German III. German IV students must have successfully complete German III with a C or better. German students will continue to build up on their language skills from German III. They will be able to express more information about themselves in German. Students will do more writing, reading, and speaking in the German language. German IV students will continue to learn about the culture of German and other German speaking countries.

*Dual Credit, AP and PLTW are considered honors designations at WCS.*
**MULTIDISCIPLINARY**

**ARMY JROTC LET I**
Grade Level: 9-12
Prerequisite: None
Course Length: 2 semesters
Credits Earned: 2

Two LET I credits may be used to earn 1 semester of PE credit

Cadets will study leadership theory and application, foundation for success, communication/study skills, citizenship, military customs and courtesies, physical training, drill, map reading, and the history and objective of JROTC.

**ARMY JROTC LET III**
Grade level: 11-12
Prerequisite: JROTC LET II
Course Length: 2 semesters
Credits Earned: 2

Cadets will study leadership strategies, foundation of success, managing conflict, career planning, financial planning, and citizenship in American history and government. This will happen through continued practical work in leadership, drill, technology awareness, methods of instruction, map reading and physical training.

**ARMY JROTC LET II**
Grade Level: 10-12
Prerequisite: JROTC LET I
Course Length: 2 semesters
Credits Earned: 2

Cadets will study wellness, fitness and first aid, drug awareness, ethical values and principals of good citizenship in American history and Government. Cadets will demonstrate knowledge of drill, map reading and physical training, with emphasis on methods of instruction.

**ARMY JROTC LET IV**
Grade level: 12
Prerequisite: JROTC LET III
Course Length: 2 semesters
Credits Earned: 2

Cadets will demonstrate leadership potential as a role model, coach, counselor, management skill and assistant instructor. Cadets will study service to the Nation and financial planning; with continue practical work in drill, technology awareness, physical training and command and staff principles.

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**GRADUATION COACHING PROGRAM (GCP)**

- **Grade Level:** 9-10
- **Prerequisite:** application and interview
- **Course Length:** 2 semesters
- **Credits Earned:** 2

The Graduation Coaching Program (GCP) is available to students through a short application and interview process. The purpose of GCP is to encourage and assist students in developing the skills necessary for earning their diploma and beyond. The course is designed to develop personal growth including study skills, citizenship, self-esteem, personal responsibility, appropriate self-expression, positive relationships, academic progress, and goal-setting. Class time will include assisted study/homework time, topical small group discussions, guest speakers, and class assignments designed to encourage thought and discussion regarding growth topics.

**JAG**

- **Grade Level:** 11-12
- **Prerequisite:** Interview
- **Course length:** 2 semesters
- **Credits Earned:** 2

Jobs for America’s Graduates (JAG) is a state-based national non-profit organization dedicated to assisting students through barriers that may have put them “at risk” of graduating. In more than three decades of operation, JAG has delivered consistent, compelling results – helping nearly three-quarters of a million young people stay in school through graduation, pursue postsecondary education and secure quality entry-level jobs leading to career advancement opportunities.

This course is a year-long elective credit. Students will follow the JAG curriculum, have guest speakers, participate in service learning, take exciting field trips to colleges and universities, and learn about career exploration. Students also have the opportunity to earn internships and to take part in state level competitions. Some of those competitions are as follows: Public Speaking, Creative Design, Critical Thinking Skills, Career Presentation, Creative Solutions, Employability Skills, and Writing Skills.

**STUDENT MONITOR**

- **Grade Level:** 11-12
- **Prerequisite:** Overall GPA=B- or above; good attendance; discipline log reviewed
- **Course Length:** 1 semester
- **Credits Earned:** 0, may be used as service credit for NHS, scholarships

Student monitors are placed in main offices to assist the school staff with providing needed services to the school community. Monitors are expected to be service oriented, trustworthy and to represent the school well. Good attendance is important. Being courteous, helpful and willing to do a variety of tasks is essential. This is not a study hall period but a time of service. Students short on a requirement may speak with their counselors to request monitor privileges.

*Dual Credit, AP and PLTW are considered honors designations at WCS.*
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Effective beginning with students who enter high school in 2012-13 school year or later.

INDIANA

CORE40

Course and Credit Requirements

<table>
<thead>
<tr>
<th>English/Language Arts</th>
<th>8 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Including a balance of literature, composition and speech.</td>
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<table>
<thead>
<tr>
<th>Mathematics</th>
<th>6 credits (in grades 9-12)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 credits: Algebra I</td>
<td></td>
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<tr>
<td>2 credits: Geometry</td>
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<tr>
<td>2 credits: Algebra II</td>
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<tr>
<td>Or complete Integrated Math I, II, and III for 6 credits.</td>
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</tr>
<tr>
<td>Students must take a math or quantitative reasoning course each year in high school</td>
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<table>
<thead>
<tr>
<th>Science</th>
<th>6 credits</th>
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</thead>
<tbody>
<tr>
<td>2 credits: Biology I</td>
<td></td>
</tr>
<tr>
<td>2 credits: Chemistry I or Physics I or Integrated Chemistry-Physics</td>
<td></td>
</tr>
<tr>
<td>2 credits: any Core 40 science course</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Social Studies</th>
<th>6 credits</th>
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</thead>
<tbody>
<tr>
<td>2 credits: U.S. History</td>
<td></td>
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<tr>
<td>1 credit: U.S. Government</td>
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<tr>
<td>1 credit: Economics</td>
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<tr>
<td>2 credits: World History/Civilization or Geography/History of the World</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Directed Electives</th>
<th>5 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>World Languages</td>
<td></td>
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<tr>
<td>Fine Arts</td>
<td></td>
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<tr>
<td>Career and Technical Education</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Physical Education</th>
<th>2 credits</th>
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<table>
<thead>
<tr>
<th>Health and Wellness</th>
<th>1 credit</th>
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<table>
<thead>
<tr>
<th>Electives*</th>
<th>6 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>(College and Career Pathway courses recommended)</td>
<td></td>
</tr>
</tbody>
</table>

40 Total State Credits Required

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

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

For the Core 40 with Academic Honors diploma, students must:
- Complete all requirements for Core 40.
- Earn 2 additional Core 40 math credits.
- Earn 6-8 Core 40 world language credits (6 credits in one language or 4 credits each in two languages).
- Earn 2 Core 40 fine arts credits.
- Earn a grade of a “C” or better in courses that will count toward the diploma.
- Have a grade point average of a “B” or better.
- Complete one of the following:
  A. Earn 4 credits in 2 or more AP courses and take corresponding AP exams
  B. Earn 6 verifiable transcripted college credits in dual credit courses from priority course list
  C. Earn two of the following:
     1. A minimum of 3 verifiable transcripted college credits from the priority course list,
     2. 2 credits in AP courses and corresponding AP exams,
     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 IB exams.

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 min score(s) on Compass: Algebra 66, Writing 70, Reading 80

*Dual Credit, AP and PLTW are considered honors designations at WCS.
2018-2019 WARSAW AREA CAREER CENTER
DEPARTMENTS AND CONTACTS

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Business, Marketing, and Information Technology..............................................Pages 77-91

Engineering/Technology Education........................................................................Pages 92-101
  Pre-Engineering - Project Lead the Way ............................................................Pages 99-101

Family and Consumer Science................................................................................Pages 102-109

Health Science Education.......................................................................................Pages 110-116
  Biomedical Science - Project Lead the Way.......................................................Page 117

Career and Technical Education – Multiple Period Courses...............................Pages 118-124
  Work-Based Learning............................................................................................Page 125

Warsaw Area Career Center
Phone Number (574) 371-5074    Fax (574) 371-5030

Director                          Ronna Kawsky       rkawsky@warsawschools.org
Assistant Director                Jill Jackson        jjackson@warsawschools.org
Program Specialist               Diana Yarian        dyarian@warsawschools.org
Administrative Assistant         Sharon Porter       sporter@warsawschools.org
CTE Assistant                    Gabriella Wall      gwall@warsawschools.org
CTE /Blue Apron Assistant        Melissa Sommer     msommer@warsawschools.org

Department Heads

Ag, Food and Natural Resources       Jacob Riley       jriley@warsawschools.org
Business, Marketing, and Info Tech  David Clark        dclark@warsawschools.org
Engineering/Technology Education   Paul Zakaria       pzakaria@warsawschools.org
Family and Consumer Science        Sandy Carmichael  scarmichael@warsawschools.org
Health Science Education           Rose Love         rlove@warsawschools.org

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AGRICULTURE, FOOD and NATURAL RESOURCES ACADEMIES

- Agribusiness Management Academy
- Animal Science Academy
- Food Science Academy
- Horticulture/Plant & Soil Science Academy
- Landscape Management Academy
- Natural Resource Management Academy

- Complete all requirements for Core 40 with Academic Honors or Technical Honors
- Complete each course with a “B-” or higher in required academy courses
- Sequence of 6 semesters of study within a particular academy required
- Earn Dual Credit and/or National Certification
- Awarded a Career Academy certificate
- Recognition at graduation
- May complete more than one career academy

*Dual Credit, AP and PLTW are considered honors designations at WCS.*
Agriculture, Food and Natural Resources Academies

**Agribusiness Management Academy**

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Agriculture, Food &amp; Natural Resources (1 period)</td>
<td></td>
</tr>
<tr>
<td>Horticulture Science OR Animal Science OR Food Science OR Plant &amp; Soils Science (1 period) (dual credit)</td>
<td></td>
</tr>
<tr>
<td>Leadership Development in Action-AG (1 period)</td>
<td></td>
</tr>
<tr>
<td>Agribusiness Management (1 period) (dual credit) Recommended: Work-Based Learning</td>
<td></td>
</tr>
</tbody>
</table>

**Food Science Academy**

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Agriculture, Food &amp; Natural Resources (1 period)</td>
<td></td>
</tr>
<tr>
<td>Food Science (1 period) (dual credit)</td>
<td></td>
</tr>
<tr>
<td>Advanced Life Science - Foods (1 period) (science credit) (dual credit) Recommended: Agribusiness Management, Leadership Development in Action-AG</td>
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</table>

**Horticulture/Plant & Soil Science Academy**

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Agriculture, Food &amp; Natural Resources (1 period)</td>
<td></td>
</tr>
<tr>
<td>Horticulture Science (1 period) (dual credit) OR Plant &amp; Soil Science (1 period) (dual credit)</td>
<td></td>
</tr>
<tr>
<td>Advanced Life Science - Plants (1 period) (science credit) (dual credit) OR Agribusiness Management (1 period) (dual credit)</td>
<td></td>
</tr>
<tr>
<td>Recommended: Leadership Development in Action-AG</td>
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**Landscape Management Academy**

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Agriculture, Food &amp; Natural Resources (1 period)</td>
<td></td>
</tr>
<tr>
<td>Horticulture Science (2 periods) (dual credit)</td>
<td></td>
</tr>
<tr>
<td>Landscape Management I (2 periods) (dual credit)</td>
<td></td>
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<tr>
<td>Agribusiness Management (1 period) (dual credit) OR Advanced Life Science-Plants (1 period) (science credit) (dual credit) OR Landscape Management II (2 periods)</td>
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<tr>
<td>Recommended: Leadership Development in Action-AG</td>
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</tbody>
</table>

**Animal Science Academy**

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Agriculture, Food &amp; Natural Resources (1 period)</td>
<td></td>
</tr>
<tr>
<td>Animal Science (1 period) (dual credit)</td>
<td></td>
</tr>
<tr>
<td>Advanced Life Science - Animal Science (1 period) (science credit) (dual credit)</td>
<td></td>
</tr>
<tr>
<td>Agribusiness Management (1 period) (dual credit) OR Advanced Life Science – Plants (1 period) (science credit) (dual credit)</td>
<td></td>
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<tr>
<td>Recommended: Leadership Development in Action-AG</td>
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**Natural Resource Management Academy**

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
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</thead>
<tbody>
<tr>
<td>Introduction to Agriculture, Food &amp; Natural Resources (1 period)</td>
<td></td>
</tr>
<tr>
<td>Natural Resource Management (1 period) (dual credit)</td>
<td></td>
</tr>
<tr>
<td>Advanced Life Science – Plants or Animal Science (1 period) (science credit) (dual credit)</td>
<td></td>
</tr>
<tr>
<td>Agribusiness Management (1 period) (dual credit) OR Sustainable Energy Alternatives (1 period)</td>
<td></td>
</tr>
<tr>
<td>Recommended: Leadership Development in Action-AG</td>
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</tbody>
</table>

*Dual Credit, AP and PLTW are considered honors designations at WCS.*
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Introduction to Agriculture, Food Science, and Natural Resources
- 8-10 grade

Plant & Soil Science
- Freshman only if Intro to Ag as 8th.
- 9-12 grade
- Dual Credit

Horticulture Science
- 10-12 Grade
- Dual Credit

ALS: Plants
- 11-12 Grade
- Honors Credit
- Science Credit
- Dual Credit

Landscape Management I
- 10-12 Grade
- Quantitative Reasoning
- Dual Credit

Landscape Management II
- 12 Grade

Animal Science
- Freshman only if Intro to Ag as 8th.
- 9-12 grade
- Dual Credit

ALS: Animal Science
- 11-12 Grade
- Honors Credit
- Science Credit
- Dual Credit

ALS: Food Science
- 11-12 Grade
- Honors Credit

ALS: Food Science
- 9-12 grade
- Dual Credit

ALS: Animal Science
- 11-12 Grade
- Honors Credit
- Science Credit
- Dual Credit

Agribusiness Management
- 11-12 Grade
- Dual Credit
- Quantitative Reasoning

Leadership Development in Action-AG
- 10-12 Grade

Natural Resource Mgt.
- 10-12 Grade
- Dual Credit

Sustainable Energy Alternatives
- 11-12 Grade
# AGRICULTURE, FOOD and NATURAL RESOURCES

## INTRODUCTION TO AGRICULTURE, FOOD, AND NATURAL RESOURCES

<table>
<thead>
<tr>
<th>Grade Level:</th>
<th>8-10</th>
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</thead>
<tbody>
<tr>
<td>Prerequisite:</td>
<td>None</td>
</tr>
<tr>
<td>Course Length:</td>
<td>2 semesters</td>
</tr>
<tr>
<td>Credits Earned:</td>
<td>2</td>
</tr>
</tbody>
</table>

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

## AGribusiness Management*

(DC3 AGRI 102 ITCC)

<table>
<thead>
<tr>
<th>Quantitative Reasoning Course</th>
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<tbody>
<tr>
<td>Grade Level:</td>
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<tr>
<td>Prerequisite:</td>
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<tr>
<td>Course Length:</td>
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<tr>
<td>Credits Earned:</td>
</tr>
</tbody>
</table>

Students may earn college credit if they complete the Ivy Tech application and earn a C or higher.

Agribusiness Management provides foundational concepts in agricultural business. It is a two-semester course that introduces students to the principles of business organization and management from a local and global perspective while incorporating technology. Concepts covered in the course include supply and demand, balance sheets, taxes, income statements, finances, marketing, management, sales, successful leadership development, and career opportunities in the area of agribusiness management.

## Natural Resource Management*

(DC3 AGRI 115 ITCC)

<table>
<thead>
<tr>
<th>Grade Level:</th>
<th>10-12</th>
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</thead>
<tbody>
<tr>
<td>Prerequisite:</td>
<td>Recommended: Intro to Ag, Foods &amp; Natural Resources</td>
</tr>
<tr>
<td>Course Length:</td>
<td>2 semesters</td>
</tr>
<tr>
<td>Credits Earned:</td>
<td>2</td>
</tr>
</tbody>
</table>

Students may earn college credit if they complete the Ivy Tech application and earn a C or higher.

Natural Resources is a two-semester course that provides students with a foundation in natural resources. Hands-on learning activities in addition to leadership development, supervised agricultural experience and career exploration encourage students to investigate areas of environmental concern. Students are introduced to the following areas of natural resources: soils, the water cycle, air quality, outdoor recreation, forestry, rangelands, wetlands, animal wildlife and safety.

## Sustainable Energy Alternatives

(Even Graduation Year Only)

<table>
<thead>
<tr>
<th>Grade Level:</th>
<th>11-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prerequisite:</td>
<td>Natural Resources</td>
</tr>
<tr>
<td>Course Length:</td>
<td>2 semesters</td>
</tr>
<tr>
<td>Credits Earned:</td>
<td>2</td>
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</tbody>
</table>

Sustainable Energy Alternatives is a two-semester course that broadens a student’s understanding of environmentally friendly energies. In this course students will use a combination of classroom, laboratory, and field experiences to analyze, critique, and design alternative energy systems. Class content and activities center on renewability and sustainability for our planet. Topics covered in this course include the following types of alternative energies: solar, wind, geothermal, biomass and emerging technologies. Leadership development, supervised agricultural experience and career exploration opportunities in the field sustainable energy are also included.

---

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ANIMAL SCIENCE*
(AC3 AGRI 103 ITCC)
Grade Level: 9 - 12
Prerequisite: Recommended: Intro to Ag, Food & Natural Resources. Freshman must have completed Intro to Ag.
Course Length: 2 semesters
Credits Earned: 2

Students may earn college credit if they complete the Ivy Tech application and earn a C or higher.

Animal Science is a two semester program that provides students with an overview of the field of animal science. Students participate in a large variety of activities and laboratory work including real and simulated animal science experiences and projects. All areas that the students study can be applied to both large and small animals. Topics to be addressed include: anatomy and physiology, genetics, reproduction, nutrition, common diseases and parasites, social and political issues related to the industry and management practices for the care and maintenance of animals while incorporating leadership development, supervised agricultural experience and learning about career opportunities in the area of animal science.

FOOD SCIENCE*
(AC3 AGRI 104 ITCC)
Grade Level: 9-12
Prerequisite: Recommended: Intro to Agriculture, Food & Natural Resource. Freshman must have completed Intro to Ag.
Course Length: 2 semesters
Credits Earned: 2

Students may earn college credit if they complete the Ivy Tech application and earn a C or higher.

Food Science is a two semester course that provides students with an overview of food science and its importance. Introduction to principles of food processing, food chemistry and physics, nutrition, food microbiology, preservation, packaging and labeling, food commodities, food regulations, issues and careers in the food science industry help students understand the role that food science plays in securing a safe, nutritious and adequate food supply. A project-based approach is utilized along with laboratory, team building and problem solving activities to enhance student learning, leadership development, supervised agricultural experience and career opportunities in the area of food science.

ADVANCED LIFE SCIENCE-ANIMALS*
(AC3 AGRI 107 ITCC)
Grade Level: 11-12
Prerequisite: Biology and Chemistry or Integrated Chemistry & Physics
Recommended: Animal Science and Intro to Ag, Food & Natural Resources
Course Length: 2 semesters
Credits Earned: 2

Students may earn college credit if they complete the Ivy Tech application and earn a C or higher.

Advanced Life Science: Animals is a two semester course that provides students with opportunities to participate in a variety of activities including laboratory work. Students investigate concepts that enable them to understand animal life and animal science as it pertains to agriculture. Through instruction, including laboratory, fieldwork, leadership development, supervised agricultural experience and the exploration of career opportunities, they will recognize concepts associated with animal taxonomy, life at the cellular level, organ systems, genetics, and evolution, and ecology, historical and current issues in animal agriculture in the area of advanced life science in animals.
National FFA Organization

The National FFA Organization is dedicated to making a positive difference in the lives of students by developing their potential for premier leadership, personal growth, and career success through agricultural education. Today, there are 629,327 FFA members, aged 12-21 in 7,757 chapters in all 50 states, Puerto Rico and the Virgin Islands. Through 23 national career development events, such as public speaking, crops, forestry, livestock, soils, dairy foods evaluation and technology. FFA members extend and test their industry knowledge in a variety of career fields. Agriculture is the nation’s largest employer, with more than 22 million people working in some phase. FFA prepares students for more than 300 careers in the science, business and technology areas within agriculture. Members of this chapter will excel in public speaking, teamwork, community service and gain valuable skills to aid them in successful lifelong skills. Contact jcarrell@warsawschools.org or jriley@warsawschools.org for additional information.

HORTICULTURE SCIENCE*
(DC3 AGRI 116 ITCC)
Grade Level: 10-12
Prerequisite: Recommended: Intro to Agriculture, Food & Natural Resources
Course Length: 2 semesters
Credits Earned: 2
Students may earn college credit if they complete the Ivy Tech application and earn a C or higher.

Students will learn about the production, processing, and marketing of horticultural plants and products. Topics covered include: reproduction and propagation of plants, both vegetables, ornamentals and fruit production, plant growth, growth media, management practices for field and greenhouse production, marketing concepts, production of herbaceous, woody and nursery stock, fruit, nut, and vegetable production, and pest management. Student will work with a variety of live plants, fertilizer and some physical work will be required for outdoor labs. Hands on labs will give students many experiences of working in a greenhouse setting.

ADVANCED LIFE SCIENCE-FOODS*
(DC3 AGRI 108 ITCC)
(Even Graduation Year Only)
***HS Science Credit for Core 40 diploma & Core 40 diploma with Technical Honors, Quantitative Reasoning Course
Grade Level: 11-12
Prerequisite: Biology and Chemistry or Integrated Chemistry & Physics
Recommended: Plant & Soil Science or Horticulture Science
Course Length: 2 semesters
Credits Earned: 2
Students may earn college credit if they complete the Ivy Tech application and earn a C or higher.

Advanced Life Science: Foods is a standards-based, interdisciplinary science course that integrates biology, chemistry and microbiology in the context of foods and the global food industry. Students enrolled in this course formulate, design and carry out food-base laboratory and field investigations as an essential course component. Students understand how biology, chemistry and physics principles apply to the composition of foods, the nutrition of foods, food and food product development, food processing, food safety and sanitation, food packaging and food storage. Students completing this course will be able to apply the principles of scientific inquiry to solve problems related to biology, physics and chemistry in the context of highly advanced industry applications of foods in the area of advanced life science in foods.

*Dual Credit, AP and PLTW are considered honors designations at WCS.
LANDSCAPE MANAGEMENT I*  
(DC3 AGRI 164 ITCC)  
Quantitative Reasoning Course  
Grade Level: 10-12  
Recommended: Introduction to Agriculture or Horticulture Science  
Course Length: 1 semester  
Credits Earned: 2  
Students may earn college credit if they complete the Ivy Tech application and earn a C or higher.

Landscape Management is a one semester course that provides the student with an overview of the many career opportunities in the diverse field of landscape management. Students are introduced to the procedures used in the planning and design of a landscape using current technology practices, the principles and procedures of landscape construction, the determination of maintenance schedules, communications and management skills necessary in landscape operations and the care and use of equipment utilized by landscapers. Students will also participate in leadership development, supervised agricultural experience and career exploration activities in the area of landscape management. Upon completion of the program, students have the opportunity to become Indiana Landscape Industry Certified through a state approved program.

ADVANCED LIFE SCIENCE-PLANTS*  
(DC3 AGRI 109 ITCC)  
***HS Science Credit for Core 40 diploma & Core 40 diploma with Technical Honors  
Grade Level: 11-12  
Prerequisite: Biology and Chemistry or Integrated Chemistry & Physics  
Recommended: Plant & Soil Science or Horticulture Science  
Course Length: 2 semesters  
Credits Earned: 2  
Students may earn college credit if they complete the Ivy Tech application and earn a C or higher.

Advanced Life Science: Plants is a two semester course that provides students with opportunities to participate in a variety of activities which includes laboratory work. Students study concepts, principles and theories associated with plants and soils. Students recognize how plants are classified, grown, function, and reproduce. Students explore plant genetics and the use of plants by humans. They examine plant evolution and the role of plants in ecology. Students investigate, through laboratory and fieldwork, how plants function and the influence of soil in plant life.

LANDSCAPE MANAGEMENT II  
Grade Level: 12  
Prerequisite: Landscape Mgt. I  
Course Length: 1 semester  
Credits Earned: 2  

Landscape Management II provides the student with in-depth exploration of the many career opportunities in the diverse field of landscape management. Students continue to build knowledge and skill in the procedures used in landscape planning and design using current industry standards and practices. Extended laboratory experiences include application of the principles and procedures involved especially in the Midwest and Great Lakes areas with landscape construction; turf management; scheduling and oversight of landscape maintenance; weed control; non-pathogenic and disease prevention, diagnosis, and treatment; communications; management skills necessary in landscaping operations; and the use and maintenance of equipment utilized by landscapers. Students should also participate in leadership development, supervised agricultural experience and career exploration activities in the area of landscape management.

PLANT & SOIL SCIENCE*  
(DC3 AGRI 105 ITCC)  
(Odd Graduation Year Only)  
Grade Level: 9-12  
Recommended: Introduction to Agriculture, Food & Natural Resources. Freshman must have completed Intro to Ag.  
Course Length: 2 semesters  
Credits Earned: 2  
Students may earn college credit if they complete the Ivy Tech application and earn a C or higher.

Plant and Soil Science is a two semester course that provides students with opportunities to participate in a variety of activities which includes laboratory work. The following topics are found in this course: plant taxonomy, components and their functions; plant growth, reproduction and propagation; photosynthesis and respiration; environmental factors effecting plant growth, management of plant diseases and pests; biotechnology; the basic components and types of soil; calculation of fertilizer application rates and procedures for application; soil tillage and conservation; irrigation and drainage; land measurement, cropping systems precision agriculture, principles and benefits of global positioning systems; and harvesting. Leadership development, career exploration opportunities in the field of plant and soil science are also included.

*Dual Credit, AP and PLTW are considered honors designations at WCS.
**SUPERVISED AG EXPERIENCE (SAE)**

Grade Level: 10 - 12  
Prerequisite: Introduction to Agriculture, Food Science and Natural Resources and Permission of Instructor  
Course Length: 1 semester, Independent Study  
Credits Earned: 1  

Supervised Agricultural Experience (SAE) is designed to provide students with opportunities to gain experience in the agriculture field(s) in which they are interested. Students should experience and apply what is learned in the classroom, laboratory and training site to real-life situations. Students work closely with their agricultural science and business teacher(s), parents and/or employers to get the most out of their SAE program. This course can be offered each year as well as during the summer session. SAE may be offered as a Cooperative Education Program. Curriculum content and competencies should be varied so that school year and summer session experiences are not duplicated. This course may be repeated each semester. Membership in FFA is an expectation. This course will be offered and combined with the Leadership Development in Action course.

**LEADERSHIP DEVELOPMENT IN ACTION-AG**

Grade Level: 10 - 12  
Recommended: A prior Agriculture class & FFA Membership  
Course Length: 1 semester, maximum 6 credits  
Credits Earned: 1  

This course is an advanced-level, project-based course in which students integrate higher order thinking, communication, leadership, and management processes to achieve Career Development Skills at the local, state, or national level. Each student will create a vision statement, establish standards and goals, design and implement an action plan and timeline, reflect on their accomplishments, and evaluate results based on FFA student-directed programs. Authentic, independent projects, internship, community based study, or in-depth laboratory experience is part of this course. Employability competencies will be documented through a required student portfolio. This is an awesome course designed to promote top leadership skills. Membership in FFA is encouraged.

**WORK-BASED LEARNING CAPSTONE: INTERNSHIP / CO-OP**

Grade Level: 12  
Prerequisite: Complete 4 credits in a Career Pathway + Preparing for College & Careers  
Acceptance to program required. (Acceptance method varies from program to program.)  
Course Length: 2 semesters  
Credits Earned: 4/6  

Students pursue their Career Path with on the job work experience and learn life and work skills to prepare them for their career.  
**See WORK-BASED LEARNING section**
BUSINESS, MARKETING and INFORMATION TECHNOLOGY ACADEMIES

- Management Academy
- Marketing Academy
- Digital Media Academy
- Computer Tech Academy
- Broadcasting Academy
- Finance Academy
- Business Skills Academy

- Complete all requirements for Core 40 with Academic Honors or Technical Honors
- Complete each course with a “B-“ or higher in required academy courses
- Sequence of 6 semesters of study within a particular academy required
- Earn Dual Credit and/or National Certification
- Awarded a Career Academy certificate
- Recognition at graduation
- May complete more than one career academy

*Dual Credit, AP and PLTW are considered honors designations at WCS.*
Business, Marketing and Information Technology

**Management Academy**
Recommended: Principles of Marketing

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<tr>
<th>Semester 1</th>
<th>Semester 2</th>
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Choose two (2):
Introduction to Accounting (1 period) (dual credit)
Principles of Marketing (1 period) (dual credit)
Business Law & Ethics (1 period)

Principles of Business Management (1 period) (dual credit)
Recommended: Administrative & Office Management, Work-Based Learning

**Finance Academy**
Recommended: Personal Financial Responsibility

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<tr>
<th>Semester 1</th>
<th>Semester 2</th>
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Introduction to Accounting (1 period) (dual credit)
Honors Advanced Accounting (1 period) (dual credit)
Business Law & Ethics (1 period) or Principles of Business Management (1 period) (dual credit)
Banking & Investment Capstone (1 period)
Recommended: Work-Based Learning

**Marketing Academy**

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<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
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<tr>
<td>Principles of Marketing (1 period) (dual credit)</td>
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<tr>
<td>Advanced Strategic Marketing (1 period) (dual credit)</td>
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<tr>
<td>Business Law &amp; Ethics (1 period) or Principles of Business Management (1 period) (dual credit)</td>
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Recommended: Work-Based Learning

**Computer Tech Academy**

Recommended: Digital Applications and Responsibility A and/or B

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<th>Semester 1</th>
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PLTW Intro to Computer Science (1 period)
Computer Tech Support (Must earn certification) (1 period)
Networking (1) (1 period)
Recommended: Work-Based Learning

**Digital Media Academy**

| Digital Applications and Responsibility A (1 period, 1 semester) |

Choose five (5) semesters:
Web Design I (1 period, 1 semester)
Interactive Media: Photoshop (1 period, 1 semester)
Interactive Media: Flash (1 period, 1 semester)
Interactive Media: Video Editing (1 period, 1 semester)
Computer Illustration & Graphics (1 period, 2 semesters)
Digital Applications and Responsibility B (1 period, 1 semester)

Must earn dual credit by passing both Digital Apps A and B or earn MOS certification/MS IT Academy
Recommended: Work-Based Learning

**Business Skills Academy**

Recommended: Intro to Business and/or Personal Financial Responsibility

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<th>Semester 1</th>
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Introduction to Accounting (1 period) (dual credit)
Digital Applications and Responsibility A and B (MOS certification/MS IT Academy) (1 period) (dual credit)
Principles of Business Management (1 period) (dual credit) or Principles of Marketing (1 period) (dual credit)
Business Law & Ethics (2 period)
Recommended: Work-Based Learning

**Broadcasting Academy**
Recommended: Video Editing, Photography

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<th>Semester 1</th>
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Radio & Television Production I (1 period) Radio Production II (1 period) (dual credit)
Television Production II (2 period) (dual credit)
Recommended: Work-Based Learning

*Dual Credit, AP and PLTW are considered honors designations at WCS.*
# BUSINESS, MARKETING and INFORMATION TECHNOLOGY

## PREPARING FOR COLLEGE AND CAREERS

<table>
<thead>
<tr>
<th>Grade Level:</th>
<th>9-Required Course</th>
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<tbody>
<tr>
<td>Prerequisite:</td>
<td>None</td>
</tr>
<tr>
<td>Course Length:</td>
<td>1 semester</td>
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<tr>
<td>Credits Earned:</td>
<td>1</td>
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</tbody>
</table>

Evaluating and creating a plan for the future is the emphasis of this class. Students will explore and examine career choices by discovering personal aptitudes, interests, goals and lifestyle. This course includes investigating the 16 national career clusters and Indiana’s College and Career Pathways. Each student will develop an individual 4-year career/college plan specifically designed to meet his/her goals. A project-based approach is used including computer and technology applications. Students will explore employability skills and learn to manage personal resources. The focus of the course is to realize the impact of today’s choices on tomorrow’s possibilities.

## BUSINESS MATH

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<tr>
<th>Grade Level:</th>
<th>10-11</th>
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<tbody>
<tr>
<td>Prerequisite:</td>
<td>Algebra I</td>
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<tr>
<td>Course Length:</td>
<td>2 semesters</td>
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<td>Credits Earned:</td>
<td>2</td>
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</table>

Business Math is a business course designed to equip students with the basic math and algebra concepts— as well as problem solving skills—necessary for roles as consumers in any home or business environment. The content includes mathematical operations related to accounting, banking and finance, marketing, and management. Instructional strategies could include simulations, guest speakers, tours, Internet research, and business-related experiences. Fulfills a Mathematics requirement for the General diploma only or counts as an Elective for the Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas.

## DIGITAL APPLICATIONS AND RESPONSIBILITY A

<table>
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<tr>
<th>Grade Level:</th>
<th>9-12</th>
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<tr>
<td>Course Length:</td>
<td>1 semester</td>
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<td>Credits Earned:</td>
<td>1</td>
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</table>

This is a business course that introduces students to the physical components and operation of computers. Technology is used to build students' decision-making and problem-solving skills. Using Microsoft Office’s Word and PowerPoint components, students will learn more efficient methods of producing documents used at work, college and home. From reports, letters, tables, to presentations you will gain skills in proofreading, problem solving, and software functionality. **This course prepares you to pass the Microsoft Office Specialist certification exams – show businesses you have proof of skill using Microsoft Office.**

## DIGITAL APPLICATIONS AND RESPONSIBILITY B* (DC3 CINS 101 ITCC)

<table>
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<tr>
<th>Grade Level:</th>
<th>9-12</th>
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<tbody>
<tr>
<td>Prerequisites:</td>
<td>Digital Applications and Responsibility A or Algebra I, C or higher</td>
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<tr>
<td>Course Length:</td>
<td>1 semester</td>
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<tr>
<td>Credits Earned:</td>
<td>1</td>
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</table>

Student must meet Ivy Tech placement scores in order to receive college credit at no charge. See Appendix A.

This is a business course that introduces students to the physical components and operation of computers. Technology is used to build students’ decision-making and problem-solving skills. Using Microsoft Office’s Excel and Access components, students will learn more efficient methods of producing documents used at work, college and home. From budgets, tables, charts and graphs, to databases, you will gain skills in proofreading, problem solving, and software functionality. **This course prepares you to pass the Microsoft Office Specialist certification exams – show businesses you have proof of skill using Microsoft Office.** This course combined with Digital Applications and Responsibility A is available for dual credit with Ivy Tech Community College.

*Dual Credit, AP and PLTW are considered honors designations at WCS.*
FINANCIAL ALGEBRA
Grade Level: 10-12
Prerequisite: Geometry
Course Length: 2 semesters
Credits Earned: 2

This is a business course designed to prepare students for roles as entrepreneurs, producers, and business leaders by developing abilities and skills that are part of any business environment. A solid understanding of math including algebra, geometry, statistics and probability provides the necessary foundation for students interested in careers in business and skilled trade areas. The content includes mathematical operations related to accounting, banking and finance, marketing, and management. Instructional strategies may include simulations, guest speakers, tours, Internet research, and business experiences. Financial Algebra is an excellent course for the student planning to pursue a post-secondary Business degree. This course counts as a CORE40 math credit following Algebra II.

TECHNICAL/BUSINESS COMMUNICATION
Grade Level: 11-12
Prerequisite: English 10
Course Length: 2 semesters
Credits Earned: 2

This is a business course designed to provide students with the communication and problem-solving skills to function effectively in the workplace. Areas of study include written/oral/visual communication, listening, informational reading, Internet research/analysis, and electronic communication. Concepts addressed will include adapting communication to the situation, purpose, and audience. Students produce documents related to employee handbooks, instructional manuals, employment communication, organizational communication, business reports, and social and professional situations using word processing, presentation, multimedia, and desktop publishing software. Instructional strategies should include team projects, class or small group discussions, case studies or scenarios, community-based projects, technology, and business experiences. This course may fulfill two graduation credits of the English/Language Arts requirement.

COMPUTER ILLUSTRATION AND GRAPHICS
Grade Level: 9-12
Course Length: 2 semesters
Credits Earned: 2

Computer Illustration & Graphics introduces students to the computer’s use in visual communication. The focus of the course is Creative Suite CC in Illustrator, Photoshop, Animate & InDesign. The course is designed to be self-paced with basic deadlines for chapter projects and online training videos. The course also includes a variety of visual art techniques as they relate to design and execution of layouts and illustrations for advertising, displays, and promotional materials. Creativity is a plus but not required. Every student creates a portfolio of their best work at the end of the semester. Students who have already successfully completed a semester in Computer Illustrations & Graphics are eligible to take a second semester.

*Dual Credit, AP and PLTW are considered honors designations at WCS.*
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<tr>
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</thead>
<tbody>
<tr>
<td><strong>INTERACTIVE MEDIA: FLASH</strong></td>
<td>9-12</td>
<td>None</td>
<td>1 semester</td>
<td>1</td>
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<tr>
<td>Using a program such as Adobe Flash, we will look at using animation on the Web and in other applications. We will look at whole Web applications and small standalone applets. This is a great supplement class to our Web Design I and II. This may be taken in any sequence with Interactive Media: Video Editing or Interactive Media: Photoshop.</td>
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</thead>
<tbody>
<tr>
<td><strong>WEB DESIGN I</strong></td>
<td>9-12</td>
<td>None</td>
<td>1 semester</td>
<td>1</td>
</tr>
<tr>
<td>This course is the first of a 2-course sequence. Web Design I will focus on the basics of making a web page. Students will concentrate on the HTML language which is the backbone of web design. We will begin at the very basic <code>&lt;HTML&gt;</code> tag and work our way through tables and CSS. There will be several usable websites made throughout class.</td>
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<th>Course Length</th>
<th>Credits Earned</th>
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<tbody>
<tr>
<td><strong>INTERACTIVE MEDIA: PHOTOSHOP</strong></td>
<td>9-12</td>
<td>None</td>
<td>1 semester</td>
<td>1</td>
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<tr>
<td>Another area dealing with multimedia is the ability to edit and manipulate pictures. These may be pictures from your camera, emailed to you, or scanned in. What can you do with them and how? Students will have the opportunity to work with the powerful Adobe Photoshop software extensively during this class. We will explore its possibilities and apply them to use in web, video, or print formats. Photoshop can be incorporated nicely with the programs offered in Interactive Media: Video Editing and Adobe Flash also.</td>
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<th>Course Length</th>
<th>Credits Earned</th>
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<tbody>
<tr>
<td><strong>WEB DESIGN II</strong></td>
<td>10-12</td>
<td>Web Design I</td>
<td>1 semester</td>
<td>1</td>
</tr>
<tr>
<td>This course is the second of a 2-course sequence. This course primarily covers web programming with CSS. It is aimed at a very specific market - people planning to start out on a career in web development - but is likely to be of value to a much wider group. This course is set up to give you the answers to just about all the fundamental questions that anyone serious about web design needs to know the answers to. It's aimed at beginners, but in no way talks down to them; it is understood that many already have a strong foundation in web design, and this course allows those students to strengthen their foundation concepts and build upon those skills.</td>
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<th>Course Length</th>
<th>Credits Earned</th>
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</thead>
<tbody>
<tr>
<td><strong>INTERACTIVE MEDIA: VIDEO EDITING</strong></td>
<td>9-12</td>
<td>None</td>
<td>1 semester</td>
<td>1</td>
</tr>
<tr>
<td>The focus in this course will be on the use of Adobe Premiere to edit video for personal and business use. Lots of hands on use of cameras and editing software! This course may be taken in any sequence with Interactive Media: Adobe Flash or Photoshop.</td>
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*Dual Credit, AP and PLTW are considered honors designations at WCS.*
PLTW COMPUTER SCIENCE ESSENTIALS*
Grade Level: 9-12
Prerequisite: none
Course Length: 2 semesters
Credits Earned: 2

Computer Science Essentials is designed to be the first computer science course for students who have never programmed before. Students work in teams to create simple apps for mobile devices using MIT App Inventor®. Students explore the impact of computing in society and the application of computing across career paths and build skills and awareness in digital citizenship and cybersecurity. Students model, simulate, and analyze data about themselves and their interests. Students work with self-driving robots by programming strategies using Vex Robotics. They also transfer the understanding of programming gained in App Inventor to learn introductory elements of text-based programming in Python® to create strategy games.

AP COMPUTER SCIENCE II: PLTW
COMPUTER SCIENCE PRINCIPLES*
Grade Level: 10-12
Prerequisite: PLTW Intro to Computer Science, C or higher
Course Length: 2 semesters
Credits Earned: 2

Using Python® as a primary tool, students explore and become inspired by career paths that utilize computing, discover tools that foster creativity and collaboration, and use what they’ve learned to tackle challenges like app development and simulation. This honors course is endorsed by the College Board, giving students the opportunity to take the AP CSP exam for college credit. Counts as a Mathematics or Elective for all diplomas. Qualifies as a quantitative reasoning course.

AP COMPUTER SCIENCE II: PLTW
COMPUTER SCIENCE A JAVA*
Grade Level: 10-12
Prerequisite: PLTW Intro to Computer Science, C or higher
Course Length: 2 semesters
Credits Earned: 2

This course is broken into four units: Introducing Java, Vanilla Android™ Development, Advanced Android™ Features, and the LibGDX Game Development Framework. Students collaborate to create original solutions to problems of their own choosing by designing and implementing user interfaces and Web-based databases, as well as creating a game for their friends or an app to serve a real need in their community. This honors course is endorsed by the College Board, giving students the opportunity to take the AP CSA exam for college credit. Counts as a Mathematics or Elective for all diplomas. Qualifies as a quantitative reasoning course.

COMPUTER SCIENCE II: C++*
(DC3 SDEV 140 ITCC)
Grade Level: 10-12
Prerequisite: PLTW Intro to Computer Science, C or higher
Course Length: 2 semesters
Credits Earned: 2

Student must meet Ivy Tech placement scores in order to receive college credit at no charge. See Appendix A.

Are you thinking about pursuing a degree in computers at college or technical school? If you did well in Algebra and you like working with computers, this may be the class for you. C++ is the programming language of choice in many Computer Science curriculums as well as in the programming work environment. In this course, we will discuss guidelines for proper programming style while addressing the technical constructs of C++. Logic, design, and problem solving, sounds fun doesn’t it? Qualifies as a Quantitative Reasoning course.

*Dual Credit, AP and PLTW are considered honors designations at WCS.
**COMPUTER TECH SUPPORT**
Grade Level: 10-12
Prerequisite: None
Course Length: 2 semesters
Credits Earned: 2

This course is based on an online curriculum designed to allow students to explore how computers work. Students learn the functionality of hardware and software components as well as suggested best practices in maintenance and safety issues. While completing the online program through TestOut, they will read lessons, watch videos, assess understanding, and complete virtual labs. These activities enable students to learn how to assemble and configure a computer, install operating systems and software, and troubleshoot hardware and software problems. This course is self-paced with deadlines, leads to possible certification, and is vital for those wanting to work without a tech support team.

**NETWORKING I**
Grade Level: 10-12
Prerequisite: None
Course Length: 2 semesters
Credits Earned: 2

This course is based on an online curriculum designed to introduce students to concepts of local and wide area networks, home networking, networking standards using the IEEE/OSI Model, network protocols, transmission media and network architecture/topologies. Security and data integrity will be introduced and emphasized throughout this course. While completing the online program through TestOut, they will read lessons, watch videos, assess understanding, and complete virtual labs. Concepts covered will include TCP/IP client administration, planning a network topology, configuring the TCP/IP protocol, managing network clients, configuring routers and hubs as well as creating a wireless LAN. This course is self-paced with deadlines, leads to possible certification, and provides the critical information needed to successfully move into a role as an IT professional supporting networked computers.

**NETWORKING II: SERVERS**
Grade Level: 11-12
Prerequisite: Networking I
Recommend: Computer Tech Support
Course Length: 2 semesters
Credits Earned: 2

This course is based on an online curriculum that focuses on the software skills needed to manage a network. Students will learn and practice the skills necessary to perform in the role of a network administrator. They will be able to accomplish fundamental network management tasks on a server such as set up of computer network services, create users and appropriate login scripts, develop groups, set the server remotely, set up security, backup/restore the server and setup/maintain clients.

**NETWORKING II: INFRASTRUCTURE**
Grade Level: 12
Prerequisite: Networking I
Recommend: Computer Tech Support
Course Length: 2 semesters
Credits Earned: 2

This is a business course which focuses on learning the fundamentals of networking, routing, switching and related protocols. In this course, students learn both the practical and conceptual skills that build the foundation for understanding basic networking, routing and switching. Students are introduced to the two major models used to plan and implement networks: OSI and TCP/IP. The OSI and TCP/IP functions and services are examined in detail. Students will learn how a router addresses remote networks and determines the best path to those networks, employing static and dynamic routing techniques.

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*Dual Credit, AP and PLTW are considered honors designations at WCS.*
INTRODUCTION TO BUSINESS
Grade Level: 9-11
Course Length: 1 semester
Credits Earned: 1

This course introduces students to different business courses: Business Management, Marketing, Accounting, Personal Finance, Photoshop, Web Design, Coding, Radio, TV and Video Editing, Business Law, and Flash. After completion of the course, students will have a basic understanding of some of the different topics that they will learn in the main course. Each subject discussed relates to a state standard for Introduction to Business. The goal is for students to make better educational decisions if they chose to pursue future business courses and careers.

BUSINESS LAW AND ETHICS
Grade Level: 10-12
Recommend: Intro to Business
Course Length: 2 semesters
Credits Earned: 2

How do you deal with “the law” if you don’t understand how it works?

In this course you will learn about the courts system, dispute resolution, criminal law, civil law (tort law), and contracts. We include law for minors, family law, bail, wills, and divorce.

Whether you are a business owner, an employee, or an average citizen you are expected to understand the laws of our country and how the justice system works—remember, “Ignorance is no excuse”. You will use logic and reasoning along with your knowledge to find solutions to legal cases. How do you work with our legal system if you don’t understand it?

Spring semester you will take a field trip to the jail, Sheriff’s Dept., the 9-1-1 Call Center, and participate in a short mock trial in Justice Building courtroom with a County Prosecutor.

Your final exam at the end of the year is actually having a mock trial in which all students participate—fun!

ADMINISTRATIVE AND OFFICE MANAGEMENT* (DC3 BUSN 105 ITCC)
Grade Level: 12
Prerequisite: Principles of Business Management
Course Length: 2 semesters
Credits Earned: 2

Student must meet Ivy Tech placement scores in order to receive college credit at no charge. See Appendix A.

Advanced Business Management prepares students to plan, organize, direct, and control the functions and processes of a firm or organization and to perform business related functions. Students are provided opportunities to develop attitudes and apply skills and knowledge in the areas of business administration, management, and finance. Individual experiences will be based upon the student’s career and educational goals.

ADMINISTRATIVE AND OFFICE MANAGEMENT
Grade Level: 12
Prerequisite: Principles of Business Management
Course Length: 2 semesters
Credits Earned: 2

Advanced Business Management prepares students to plan, organize, direct, and control the functions and processes of a firm or organization and to perform business related functions. Students are provided opportunities to develop attitudes and apply skills and knowledge in the areas of business administration, management, and finance. Individual experiences will be based upon the student’s career and educational goals.

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“The art of getting things done through people.” Business Management is for the advanced business student who will one day run his or her own business or be in a position of supervising or leading other employees. Students will study topics needed to know to manage and operate a business: finance, marketing, communications, human resources, and more. Class members will begin learning the “basics” and then apply those principles and practice in “real business” simulations. This class will focus on real-life management practices, ethics, and the world economy. Students will actively participate in cooperative learning, multicultural studies, applying math skills, applying written communication and presentation skills, and creating a portfolio. After taking the pre-requisites this is the next step in creating your own future in the business world.
INTRODUCTION TO ACCOUNTING*  
(DC3 ACCT 100 VU)  
Grade Level: 11-12  
Course Length: 2 semesters  
Credits Earned: 2  
**Students may earn college credit if they complete the Vincennes application and earn a C or higher.**

Did my business make a profit? What’s a debit? If you are planning to study business in college, Introduction to Accounting is for you! Introduction to Accounting is a business course that introduces the language of business using Generally Accepted Accounting Principles (GAAP) and procedures for proprietorships and partnerships using double-entry accounting. Emphasis is placed on accounting principles as they relate to both manual and automated financial systems. This course involves understanding, analyzing, and recording business transactions and preparing, analyzing, and interpreting financial reports as a basis for decision making.

INTRODUCTION TO ACCOUNTING  
Grade Level: 10-12  
Course Length: 2 semesters  
Credits Earned: 2  

Did my business make a profit? What’s a debit? If you are planning to study business in college, Introduction to Accounting is for you! Introduction to Accounting is a business course that introduces the language of business using Generally Accepted Accounting Principles (GAAP) and procedures for proprietorships and partnerships using double-entry accounting. Emphasis is placed on accounting principles as they relate to both manual and automated financial systems. This course involves understanding, analyzing, and recording business transactions and preparing, analyzing, and interpreting financial reports as a basis for decision making.

ADVANCED ACCOUNTING  
(DC3 ACC2110 GRACE)  
**DUAL CREDIT PENDING**  
Grade Level: 11-12  
Prerequisite: Introduction to Accounting (with ‘C’ or higher)  
Course Length: 2 semesters  
Credits Earned: 2  

Advanced Accounting is an honors-level, business course that uses an integrated approach to teach accounting. Students first learn how businesses plan for and evaluate their operating, financing and investing decisions and then how accounting systems gather and provide data to internal and external decision makers. This course covers all the learning objectives of a traditional college level financial accounting course, plus those from a managerial accounting course. Topics include an introduction to accounting, accounting information systems, time value of money, and accounting for merchandising firms, sales and receivables, fixed assets, debt and equity. Other topics include statement of cash flows, financial ratios, cost-volume profit analysis and variance analysis. Qualifies as a Quantitative Reasoning course. Successful completion of culminating exam enables you to enroll in Kansas State’s distance education program to complete ACC241 online (and earning six hours for college) while earning Banking and Investment Careers credit. Contact Angie Heinsman at aheinsman@warsawschools.org for more details.

HONORS BANKING AND INVESTMENT CAPSTONE  
Grade Level: 11-12  
Prerequisite: Advanced Accounting  
Course Length: 2 semesters  
Credits Earned: 2  

Honors Banking and Investment careers is an extension of the learning from Advanced Accounting with a primary emphasis on the world of finance. Qualifies as a Quantitative Reasoning course.

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*Dual Credit, AP and PLTW are considered honors designations at WCS.*
Is MARKETING in your future? Whatever your career plans may be, you’ll need to be able to market the most important product of all—yourself! MARKETING is one of the most important functions of business today. It provides jobs for millions of people. The people employed in marketing have various careers that range from research and product planning, advertising and selling, distribution of products from manufacturers to consumers, customer service, assistance with financing and credit procedures, and many other activities. Emphasis will be placed on both oral and written communications, mathematical applications, problem solving, and critical thinking skills as they relate to all the marketing functions. Coursework is computer based—basic computer skills are necessary. Students enrolling in MARKETING may elect to join Business Professionals of America.

**PRINCIPLES OF MARKETING**
(DC3 MKTG 101 ITCC)
Grade Level: 10-12
Course Length: 2 semesters
Credits Earned: 2
Student must meet Ivy Tech placement scores in order to receive college credit at no charge. See Appendix A.

**ADVANCED/STRATEGIC MARKETING**
(DC3 MKTG 230 ITCC)
Grade Level: 11-12
Prerequisite: Principles of Marketing (with ‘C’ or higher)
Course Length: 2 semesters
Credits Earned: 2
Must have earned dual credit in Principles of Marketing to be eligible for dual credit in this course. Students may earn college credit if they complete the Ivy Tech application and earn a C or higher.

Advanced Marketing will introduce students to the marketing role in society and how it affects the marketing strategy. This course emphasizes marketing mix, product planning, and the effects of the demographic dimension on the consumer market. This advanced marketing course develops student understanding and skill in distribution, financing, marketing-information management, pricing, product/service management, promotion, and selling. Emphasis will be placed on the impact that customers’ behavior has on the implementation of marketing functions. Financial considerations as they relate to business profit will also be explored. Throughout the course, students are presented with problem-solving situations to which they must apply their academic and critical-thinking skills. This course also focuses on individual marketing avenues such as hospitality, sports, and entertainment.

**PRINCIPLES OF MARKETING**
Grade Level: 10-12
Course Length: 2 semesters
Credits Earned: 2

Is MARKETING in your future? Whatever your career plans may be, you’ll need to be able to market the most important product of all—yourself! MARKETING is one of the most important functions of business today. It provides jobs for millions of people. The people employed in marketing have various careers that range from research and product planning, advertising and selling, distribution of products from manufacturers to consumers, customer service, assistance with financing and credit procedures, and many other activities. Emphasis will be placed on both oral and written communications, mathematical applications, problem solving, and critical thinking skills as they relate to all the marketing functions. Coursework is computer based—basic computer skills are necessary. Students enrolling in MARKETING may elect to join Business Professionals of America.

**ADVANCED/STRATEGIC MARKETING**
Grade Level: 11-12
Prerequisite: Principles of Marketing (with ‘C’ or higher)
Course Length: 2 semesters
Credits Earned: 2

Advanced Marketing will introduce students to the marketing role in society and how it affects the marketing strategy. This course emphasizes marketing mix, product planning, and the effects of the demographic dimension on the consumer market. This advanced marketing course develops student understanding and skill in distribution, financing, marketing-information management, pricing, product/service management, promotion, and selling. Emphasis will be placed on the impact that customers’ behavior has on the implementation of marketing functions. Financial considerations as they relate to business profit will also be explored. Throughout the course, students are presented with problem-solving situations to which they must apply their academic and critical-thinking skills. This course also focuses on individual marketing avenues such as hospitality, sports, and entertainment.

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PERSONAL FINANCIAL RESPONSIBILITY
Grade Level: 10-12
Course Length: 1 semester
Credits Earned: 1

Personal Financial Responsibility addresses the identification and management of personal financial resources to meet the financial needs, wants and responsibilities of individuals and families, considering a broad range of economic, social, cultural, technological, environmental, and maintenance factors. A project-based approach that utilizes higher order thinking, communication, leadership, and management processes is recommended in order to integrate suggested topics into the study of managing personal resources. Topics include needs, wants, and goals; personal decision making; personal finance topics such as making money, banking, saving and investing, managing credit, managing risks and insurance; financial planning; consumer choices, rights, and responsibilities, and decision making related to meeting personal financial responsibilities. This course is recommended for all students regardless of their career cluster or pathway.

GLOBAL ECONOMICS
Grade Level: 12
Prerequisite: None
Course Length: 1 semester
Credits Earned: 1

Global Economics is a course that provides high school seniors with a basic understanding of their economic role in the economy. In order to pursue their interests as consumers and producers in domestic and global economies, the students will develop an awareness of economic concepts. This course will enable students to understand how the system operates while comprehending their role in the system. Students will deal with public policy, the effect of international economics, microeconomics, macroeconomics, and comparing economic systems and certain economic measures. This course qualifies as a Quantitative Reasoning course for the General diploma and meets graduation requirements for Economics.

RADIO AND TV PRODUCTION I
Grade Level: 9-12
Recommend: Interactive Media: Video Editing
Length: 1 semester
Credits Earned: 1

During this introductory course students will learn how to properly use and care for ENG and studio equipment as well as some of the critical vocabulary used in professional radio and television. Students will also have many hands on experiences including writing and recording public service announcements (for WIOE) and a news story (TV). In addition, students will learn the basics of television studio operations while briefly rotating through various roles and responsibilities in the WACC TV studio and control room. Students who take this course are eligible to apply for acceptance into Television Production II.

TV PRODUCTION II*
(10-12)
Grade Level: 10-12
Prerequisite: Radio and TV Production I, IM: Video Editing, and Strong Communication Skills
Acceptance to program required. (Acceptance method varies from program to program.)
Course Length: 2 semesters (2 periods)
Credits Earned: 4

Students may earn college credit if they complete the Huntington application and earn a C or higher.

This dual credit course provides students with an overview of roles and responsibilities associated with the TV production industry. The theory and operation of TV production equipment including camera, switcher, CGs, teleprompter, audio console, lighting, talent, and video editing are studied. Students enrolled in this course produce WACC TV News as well as PSAs, commercials, and other short video productions. (Participation in some activities beyond the regular school day is required).

*Dual Credit, AP and PLTW are considered honors designations at WCS.
**TV PRODUCTION II**
Grade Level: 10-12
Prerequisite: Radio and TV Production I, IM: Video Editing, and Strong Communication Skills

Acceptance to program required. (Acceptance method varies from program to program.)
Course Length: 2 semesters (2 periods)
Credits Earned: 4

This dual credit course provides students with an overview of roles and responsibilities associated with the TV production industry. The theory and operation of TV production equipment including camera, switcher, CGs, teleprompter, audio console, lighting, talent, and video editing are studied. Students enrolled in this course produce WACC TV News as well as PSAs, commercials, and other short video productions. (Participation in some activities beyond the regular school day is required).

**RADIO PRODUCTION II* (DC2 DM 196 RADIO I HU)**
Grade Level: 10-12
Recommend: Radio and Television Production I
Length: 1 semester
Credits Earned: 1

Students may earn college credit if they complete the Huntington application and earn a C or higher.

This class is offered to students who are interested in basic audio broadcasting production. Emphasis will be on script writing, recording, microphone techniques, and editing. Students will perform a variety of lab exercises including working with WIOE to complete PSAs for our community. Good writing, computer, and communication skills along with the concept of teamwork will be developed in this class.

**TV PRODUCTION III**
Grade Level: 11-12
Prerequisite: Radio and TV Production I, TV Production II, IM: Video Editing, strong work ethic and time management skills

Acceptance to program required. (Acceptance method varies from program to program.)
Course Length: 1-2 semesters (1-2 periods)
Credits Earned: 2/4

This course provides students with an in-depth study of specifically chosen roles and responsibilities associated with the TV production industry; students will build off of experiences in TV Production II and assume leadership roles during this course. Students enrolled in this course help produce WACC TV News as well as PSAs, commercials, and other short video productions. (Participation in some activities beyond the regular school day is required.) Students must be able to work independently to manage their own special projects and deadlines.

**RADIO PRODUCTION II**
Grade Level: 10-12
Recommend: Radio and Television Production I
Length: 1 semester
Credits Earned: 1

This class is offered to students who are interested in basic audio broadcasting production. Emphasis will be on script writing, recording, microphone techniques, and editing. Students will perform a variety of lab exercises including working with WIOE to complete PSAs for our community. Good writing, computer, and communication skills along with the concept of teamwork will be developed in this class.

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VIDEOGRAPHY
Grade Level: 11-12
Prerequisite: Video Editing and Strong Communication Skills
Acceptance to program required. (Acceptance method varies from program to program.)
Recommended: Radio and TV I
Course Length: 1 semester (2 periods)
Credits Earned: 2

Videography provides students with a variety of real-world learning opportunities through hands-on experiences. Students will become familiar with the roles of screenwriter, producer, director, camera operator, sound mixer, actor, and editor through a variety of individual and group projects. This course offers hands-on camera, lighting and audio training as well as editing instruction utilizing Premiere CC for editing. Students will complete a variety of short film projects to acquire knowledge about the various aspects of preproduction, production and postproduction. In addition to learning how to write a script and breakdown an original short film, students will conduct a professional pitch that will be presented for competition to determine the final competition to determine the final group film projects of the semester.

FILM PRODUCTION
Grade Level: 11-12
Prerequisite: Videography
Course Length: 1 semester (3 periods)
Credits Earned: 3

This hands-on course takes students on a filmmaker’s journey from idea to screen. Film Making focuses on script development, electronic field production (EFP), and digital non-linear editing. Instruction is designed to further develop and enhance skill sets learned in Videography and assist students in the acquisition of basic film making knowledge for a future career in film. In groups, students will cultivate and produce a 20-30 minute film or documentary production and participate as the key members of a production crew. They will be responsible for pre-production, production, and post-production of film and/or documentary projects. Students are expected to pay close attention to details and work collaboratively in production situations that presently exist in the film industry. They will also be expected to produce films both on campus and on location in the community. Resources and materials consist of cameras, lighting systems, and audio equipment, desktop editing via Adobe Premiere CC and camera stabilization systems. In addition, students will be asked to market their projects.

EDUCATION PROFESSIONS*
Grade Level: 11-12
Recommended: 4 credits in career pathway
Acceptance to program required. (Acceptance method varies from program to program.)
Course Length: 2 semesters (2 periods)
Credits Earned: 4
(plus fast-track acceptance to Grace College Education department)

This class is an introduction to the profession of teaching. Students who are college and career ready will have the opportunity to earn dual credit for two college courses: Teaching School in America and Teaching Exceptional Learners. Learning experiences are structured both in and out of the classroom with the purpose of assisting in making career decisions relative to this profession. The Teaching Exceptional Learners course is designed for prospective teachers, elementary or secondary, working with children at home or in social agencies. The intent is to develop an introduction to children with exceptionalities and practical strategies to assist these children, especially in an educational setting. This course will examine the types of exceptionalities, the laws that apply to them, as well as adaptations and special services that are provided to them in a regular classroom setting and in alternative educational settings. If you are curious about a teaching profession, accept challenge well, possess an excellent attendance record, and have good grades, this is the class to take. Please contact Sarah McCreery at smcreery@warsawschools.org if you have additional questions about this course.

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WORK-BASED LEARNING CAPSTONE: INTERNSHIP/CO-OP

Grade Level: 12
Prerequisite: Complete 4 credits in a Career Pathway + Preparing for College & Careers

Acceptance to program required. (Acceptance method varies from program to program.)

Course Length: 2 semesters
Credits Earned: 4/6

Students pursue their Career Path with on the job work experience and learn life and work skills to prepare them for their career.

**See WORK-BASED LEARNING section.

Join a Professional Organization!

Join Business Professionals of America (BPA)

BPA is the student organization specifically for the student who is interested in pursuing a career in business.

What is BPA? Nationally, BPA has over 51,000 members in over 2,300 chapters, in 23 states. It is a co-curricular organization that adapts itself to work with what is being done inside the classroom—it’s not just something added on after the school day.

What does a BPA member do? The WSAP (Workplace Skills Assessment Program) is a primary focus for the BPA member—we call them contests. BPA members may compete at the district, state, and national levels. Students assess their real-world skills and problem-solving abilities in finance, management, IT, and computer applications. The winners at each level are eligible to move on to demonstrate their career skills at the next level.

Other options for BPA member participation include the scholarship program; running for office at the local chapter, state, and national levels; and participating in the Torch Awards Program or Special Recognition Awards Program which recognize members and chapters for their leadership and service to the community.

Want more information? Contact Mr. Waldeck at swaldeck@warsawschools.org or Mr. Schramm at sschramm@warsaschools.org or visit bpa.org or indianabpa.org

*Dual Credit, AP and PLTW are considered honors designations at WCS.*
ENGINEERING/TECHNOLOGY EDUCATION ACADEMIES

- Engineering Academy
- Architecture & Construction Academy
- Industrial Automation Robotics Academy
- Manufacturing Academy
- Advanced Manufacturing Academy
- Welding Technology Academy
- Precision Machine Academy

- Complete all requirements for Core 40 with Academic Honors or Technical Honors
- Complete each course with a “B-” or higher in required academy courses
- Sequence of 6 semesters of study within a particular academy required
- Earn Dual Credit and/or National Certification
- Awarded a Career Academy certificate
- Recognition at graduation
- May complete more than one career academy

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*Dual Credit, AP and PLTW are considered honors designations at WCS.*
ENGINEERING/TECHNOLOGY EDUCATION

INTRODUCTION TO MANUFACTURING
Grade Level: 9-10
Prerequisite: None
Course Length: 2 semesters
Credits Earned: 2

This course explores the application of tools, materials, and energy in developing, producing, using, and assessing manufactured products. Students will explore techniques used to apply technology in obtaining resources and in changing them into industrial materials and finished products. Students will work in groups and individually to learn about wood, metals, and plastics and the processes of separating, forming, and combining. Students will set up and run production cells and work on individual projects.

INTRODUCTION TO COMMUNICATION
Grade Level: 9-12
Prerequisite: None
Course Length: 2 semesters
Credits Earned: 2

Do you want to learn how to design and screen print your own shirt? This is a hands-on course. Students will design and produce graphic and electronic media as they explore techniques used to apply technology in communicating information and ideas. Projects include graphic design with industry leading programs. Some of the projects found in this class include: screen printing, working on laser engraver, game animation, pod casting, video production, geocaching, 3D design and modeling on 3D printer, and digital photography.

INTRODUCTION TO TRANSPORTATION
Grade Level: 9-12
Prerequisite: None
Course Length: 2 semesters
Credits Earned: 2

This is a broad course that explores the four modes of transportation (land, air, water, and space) and how they relate to our everyday lives. For a better understanding of how these forms of transportation operate, students will spend much of the semester working in the lab creating projects that deal with transportation today. Past projects include: model rocket construction, boat hull construction and testing aerodynamics by building gliders and planes.

MANUFACTURING
Grade Level: 11-12
Prerequisite: None
Course Length: 2 semesters
Credits Earned: 2

This course explores the application of tools, materials, and energy in developing, producing, using, and assessing manufactured products. Students will explore techniques used to apply technology in obtaining resources and in changing them into industrial materials and finished products. Students will work in groups and individually to learn about wood, metals, and plastics and the processes of separating, forming, and combining. Students will set up and run production cells and work on individual projects. This is the same course as Introduction to Manufacturing and should not be repeated if taken in grade 9 or 10.

AVIATION FLIGHT/PRIVATE PILOT GROUND SCHOOL
Grade Level: 10-12
Prerequisite: Must be 15 years of age by end of current school year
Course Length: 2 Semesters
Credits Earned: 2

This course will prepare the student for either a career in aviation or simply to pursue the pilot’s license for business/pleasure. This course familiarizes students with the Department of Aviation Technology and its curricula; historic overview of the field of aviation; overview of the current aviation environment; careers and employment opportunities in aviation, including discussions relative to aircraft manufacturing, airline operations, general aviation, air-freight, airport management, government service while preparing new student pilots for the maneuvers that are required to be performed during the Practical Test portion of his/her Private Check Ride. In addition to these maneuvers, basic aerodynamics, aircraft systems, instrument operation, weight and balance, aviation flight physiology as well as a basic working knowledge of aircraft power plants will be covered. This course will prepare students to satisfy the mandatory requirements for passing the Federal Aviation Administration's (FAA) Private Pilot written exam and oral exam.

*Dual Credit, AP and PLTW are considered honors designations at WCS.
**INTRODUCTION TO CONSTRUCTION**
Grade Level: 9-10  
Prerequisite: None  
Course Length: 2 semesters (1 period)  
Credits Earned: 2

Introduction to Construction is a course that will offer hands-on activities and real world experiences related to the skills essential in residential, commercial and civil building construction. During the course students will be introduced to the history and traditions of construction trades. The student will also learn and apply knowledge of the care and safe use of hand and power tools as related to each trade. In addition, students are introduced to blueprint reading, applied math, basic tools and equipment, and safety. Students study construction technology topics such as preparing a site, doing earthwork, setting footings and foundations, and building the superstructure. Students also investigate topics related to the purchasing and maintenance of structures, special purpose facilities, green construction and construction careers. Students interested in Building Trades Technology should take this course.

**BUILDING TRADES TECHNOLOGY I**  
*(DC6 BCTI 100 BCTI 101 ITCC)*
Grade Level: 11-12  
Prerequisite: Acceptance to program required. (Acceptance method varies from program to program.)  
Recommended: Introduction to Construction  
Length: 2 semesters (3 periods)  
Credits Earned: 6

Students may earn college credit if they complete the Ivy Tech application and earn a C or higher.

This is a two-year, half-day course designed to start at the junior level. Students attend one class per day. One class meets for three periods in the morning and the other class meets for three periods in the afternoon. The instructor will screen all applicants. It is recommended that applicants take some engineering & technology classes to strengthen their background. Students enrolled in this course will participate in a variety of hands-on learning experiences. Students will be involved in framing, roofing, installing doors and windows, electrical, hanging drywall, painting, finish work, concrete work, and landscaping. Students wanting only one year of this program would be accepted if there are openings.

**CONSTRUCTION**
Grade Level: 11-12  
Prerequisite: None  
Course Length: 2 semesters (1 period)  
Credits Earned: 2

Introduction to Construction is a course that will offer hands-on activities and real world experiences related to the skills essential in residential, commercial and civil building construction. During the course students will be introduced to the history and traditions of construction trades. The student will also learn and apply knowledge of the care and safe use of hand and power tools as related to each trade. In addition, students are introduced to blueprint reading, applied math, basic tools and equipment, and safety. Students study construction technology topics such as preparing a site, doing earthwork, setting footings and foundations, and building the superstructure. Students also investigate topics related to the purchasing and maintenance of structures, special purpose facilities, green construction and construction careers. Students interested in Building Trades Technology should take this course. This is the same course as Introduction to Construction and should not be repeated if taken in grade 9 or 10.

**BUILDING TRADES TECHNOLOGY II**  
*(DC9 BCTI 102 BCTI 103 BCTI 104 ITCC)*
Grade Level: 12  
Prerequisite: Building Trades I and Instructor Approval  
Length: 2 semesters (3 periods)  
Credits Earned: 6

Students may earn college credit if they complete the Ivy Tech application and earn a C or higher.

This is the second year of a two-year course that meets three periods each day. Students attend one class per day. Students will be seniors entering their second year of building trades and must have instructor recommendation to continue in Building Trades II. Students will be working in all the aspects of building a residential house (see Building Trades I). Second year students will be perfecting their performance skills as well as leadership skills. These students will serve as mentors to first-year students. They will assist the instructor in aiding and training.

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**PRECISION MACHINE TECHNOLOGY I**
(DC9 MTTC 101 MTTC 102 MTTC 103 ITCC)
Grade Level: 10-12
Prerequisite: Acceptance to program required.
(Acceptance method varies from program to program.)
Recommended: Introduction to Manufacturing
Length: 2 semesters (2 periods)
Credits Earned: 4

**PRECISION MACHINE TECHNOLOGY II**
(DC12 MTTC 105 MTTC 106 MTTC 107 MTTC 208 ITCC)
Grade Level: 11-12
Prerequisite: Precision Machine I and Instructor Approval
Length: 2 semesters (3 periods)
Credits Earned: 6

**WELDING TECHNOLOGY I**
(DC6 WELD 100 WELD 108 ITCC)
Grade Level: 11-12
Prerequisite: Acceptance to program required.
(Acceptance method varies from program to program.)
Recommended: Introduction to Manufacturing
Length: 2 semesters (2 periods)
Credits Earned: 4

**WELDING TECHNOLOGY II**
(DC 9 WELD 109 WELD 207 WELD 208 ITCC)
Grade Level: 12
Prerequisite: Welding I and Instructor Approval
Length: 2 semesters (2 periods)
Credits Earned: 4

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*Students may earn college credit if they complete the Ivy Tech application and earn a C or higher.*

The Precision Machine Technology course is a 2-year program; most students entering this program plan on completing both years. The beginning (PMT I) class covers shop safety, fundamentals of machinist hand tools, precision measurement, blueprint reading, engine lathe, drill press, vertical milling machine, and other machine tools, as well as an introduction to CNC machining, CNC mill and CNC lathe. The advanced (PMT2) class expands the understanding of manual mills and lathes, multi component assemblies, advanced understanding of abrasive processes, and more advanced CNC programming, setup and operation. This program enables a graduate various career opportunities such as those available in local industry including the orthopedic appliance and other high tech manufacturing careers. Typical careers include machinist, tool grinder, and tool & die maker, quality control, CNC operator, machine setup, CAD/CAM Engineer, machine repair, and CNC programmer. There is a small fee to cover safety equipment and supplies for this program. Questions regarding fees should be directed to the Career Center office.

This course includes classroom and laboratory experiences of arc, MIG, and oxy-acetylene welding/brazing, cutting (gas and plasma), blueprint reading, welding symbols, and auxiliary equipment (horizontal band saw, chop saw, iron worker, and drill press). Welds will be performed in a variety of positions to complete common joints using American Welding Society (AWS) standards. Safety is emphasized with all equipment and procedures. This is year one of a two-year course offering. **Welding students are required to purchase safety equipment for this class. A list of anticipated fees is available in the Career Center Office.**

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*Dual Credit, AP and PLTW are considered honors designations at WCS.*
Robotics Club

This is an innovative club that is open to all WCHS and WACC students. The club will compete in the IRE (Indiana Robotic Educators) league throughout the school year at various Ivy Tech locations. The club members will utilize their engineering skills in developing several highly competitive robots. They will be competing in the radio controlled, autonomous, and full pull games. Through this club, students will be able to interact with engineers from local orthopedic companies on their robot designs and programs. The members will participate in one service activity and will participate in a fundraiser. Email Paul Zakaria for further information at pzakaria@warsawschools.org.

**ROBOTICS DESIGN AND INNOVATION**

<table>
<thead>
<tr>
<th>Grade Level:</th>
<th>9-12</th>
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<tbody>
<tr>
<td>Prerequisite:</td>
<td>None</td>
</tr>
<tr>
<td>Course Length:</td>
<td>2 semesters</td>
</tr>
<tr>
<td>Credits Earned:</td>
<td>2</td>
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</table>

Do you like to design? Do you like to use your hands? Have you considered being an engineer?

If you enjoy problem solving and/or working with your hands this class is for you! An engineer is a trained problem solver who engages in research, development, planning, design, production, and supervision of a product from concept to conceptualization. Students will develop and present solutions of how to design a robot to do certain challenges. Students will work as a team to program the robot to building the robot to driving the robot. Students will apply their knowledge by competing in the Indiana Robots Educators (IRE) Robotic Competitions or VEX Robotic Competitions to test their possible solutions. If you take this course, you will understand what it takes to be an engineer! This course precedes Industrial Automation and Robotics I.

**INDUSTRIAL AUTOMATION & ROBOTICS I**

<table>
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<tr>
<th>Grade Level:</th>
<th>10-12</th>
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<tbody>
<tr>
<td>Prerequisite:</td>
<td>Robotics and Design Innovation</td>
</tr>
<tr>
<td>Course Length:</td>
<td>2 semesters</td>
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<tr>
<td>Credits Earned:</td>
<td>2</td>
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</tbody>
</table>

Do you want to continue your advanced robot building/programming skills? Do you want to continue developing your engineering techniques? Continue on with Industrial Automation and Robotics I! Utilize your problem solving abilities in many engineering projects. Industrial Robotics Certification for students who qualify.

**INDUSTRIAL AUTOMATION & ROBOTICS II**

<table>
<thead>
<tr>
<th>Grade Level:</th>
<th>11-12</th>
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</thead>
<tbody>
<tr>
<td>Prerequisite:</td>
<td>Robotics Design and Innovation and Industrial Automation and Robotics I; Instructor approval</td>
</tr>
<tr>
<td>Course Length:</td>
<td>2 semesters</td>
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<tr>
<td>Credits Earned:</td>
<td>2</td>
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</table>

Industrial Automation and Robotics II is a course that focuses on the process of applying engineering, technological, scientific and mathematical principles in the design, production, and operation of a vex robotic structure. This is a hands-on course designed to provide students interested in engineering careers. Students will engage in research, development, planning, design, production, and management of a robot in a robotic competition to simulate an engineering problem.

*Dual Credit, AP and PLTW are considered honors designations at WCS.*
Automotive Services Technology I is a one-year course that encompasses the subtopics of the NATEF/ASE identified areas of Steering & Suspension and Braking Systems. This program covers the basic understanding of the new technologies and principles necessary to perform repairs on your own vehicles or to prepare for a career in the automotive industry using both a textbook and practical lab experience. Students will learn about engine repair, engine performance, brakes, steering, suspension and tire service. Mathematical skills will be reinforced through precision measuring activities as well as cost estimation and calculation activities. Scientific principles taught and reinforced in this course include the study of viscosity, friction, thermal expansion, and compound solutions. Written and oral skills will also be emphasized to help students communicate with customers, colleagues, and supervisors. This course is taught at Tippecanoe Valley High School. Transportation must be provided by the student.

Advanced Auto continues to work in servicing, maintenance, and repair of the modern automobile. The course provides students with a background of procedures and practical job skills concentrating on electrical/electronics and engine performance but is not limited to these areas. It is possible for students to receive college credit and automotive certification with successful completion of this course. Mathematical skills will be reinforced through precision measuring activities and cost estimation/calculation activities. Scientific principles taught and reinforced in this course include the study of viscosity, friction, thermal expansion, and compound solutions. Written and oral skills will also be emphasized to help students communicate with customers, colleagues, and supervisors. This course is taught at Tippecanoe Valley High School.

VIDEO GAME DESIGN 101
Grade Level: 9-12
Prerequisite: A/B grade in Algebra I or higher
Course Length: 2 semesters
Credits Earned: 2

Interested in designing your own video games? Find out if you have what it takes. In this class we will use different gaming engines and 3D modelling software to create our own assets, levels, and possibly even cutscenes. Please come in with an open mind to learning new software you are not familiar with.

WORK-BASED LEARNING CAPSTONE: INTERNSHIP & CO-OP
Grade Level: 12
Prerequisite: Complete 4 credits in a Career Pathway + Preparing for College & Careers

Acceptance to program required. (Acceptance method varies from program to program.)
Course Length: 2 semesters
Credits Earned: 4/6

Students pursue their Career Path with on the job work experience and learn life and work skills to prepare them for their career.

**See WORK-BASED LEARNING section.
**PRE-ENGINEERING**

**PROJECT LEAD THE WAY**

**PLTW INTRODUCTION TO ENGINEERING DESIGN**
(DC3 PLTW DESN 101 ITCC)
Grade Level: 9-12
Recommended: Strong math skills
Course Length: 2 semesters
Credits Earned: 2

**Students may earn college credit if they complete the Ivy Tech application and earn a C or higher.**

Super fun, exciting, and engaging class allowing students to learn how to 3D model and 3D print lots of different projects. Students will learn what it means to be an engineer and design things that are of interest to them. Students will also create 3D printed projects including puzzle cubes, cars, and Legos.

**PLTW INTRODUCTION TO ENGINEERING DESIGN FOR WOMEN**
(DC3 PLTW DESN 101 ITCC)
Grade Level: 9-12
Recommended: Strong math skills
Course Length: 2 semesters
Credits Earned: 2

**Students may earn college credit if they complete the Ivy Tech application and earn a C or higher.**

This course is for females only. Super fun, exciting, and engaging class allowing students to learn how to 3D model and 3D print lots of different projects. Students will learn what it means to be an engineer and design things that are of interest to them. Students will also create 3D printed projects including puzzle cubes, cars, and Legos.

**PLTW PRINCIPLES OF ENGINEERING**
(DC3 PLTW DESN 104 ITCC)
Grade Level: 10-12
Prerequisite: Introduction to Engineering Design (IED)
Course Length: 2 semesters
Credits Earned: 2

**Students may earn college credit if they complete the Ivy Tech application and earn a C or higher.**

An introductory course that helps students understand the field of engineering and engineering technology. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. The course also includes concerns about social and political consequences of technological change.
PLTW DIGITAL ELECTRONICS*
( DC3 PLTW EECT 112 ITCC) *(Odd Graduation Year Only)*

<table>
<thead>
<tr>
<th>Grade Level:</th>
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<tbody>
<tr>
<td>Prerequisite:</td>
<td>Introduction to Engineering Design (IED) and Principles of Engineering (POE)</td>
</tr>
<tr>
<td>Course Length:</td>
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<tr>
<td>Credits Earned:</td>
<td>2</td>
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</tbody>
</table>

*Student must meet Ivy Tech placement scores in order to receive college credit at no charge. See Appendix A.*

Do you want to learn how to design and wire a circuit? Do you want to learn how to program a BoeBot? Digital Electronics is a course in applied logic. Students will explore the digital circuits found in video games, watches, calculators, computers, and thousands of other devices. Students will investigate digital logic and how digital devices can control automated equipment. Students use industry standard electronic design software to build circuits.

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PLTW DIGITAL ELECTRONICS
(Odd Graduation Year Only)

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PLTW CIVIL ENGINEERING AND ARCHITECTURE*  
(DC3 PLTW DESN 105 ITCC)  
Grade Level: 11-12  
Prerequisite: Introduction to Engineering Design (IED) and Principles of Engineering (POE)  
Course Length: 2 semesters  
Credits Earned: 2  
Students may earn college credit if they complete the Ivy Tech application and earn a C or higher.

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

PLTW COMPUTER INTEGRATED MANUFACTURING*  
(DC3 PLTW ADMF 116 ITCC)  
(Even Graduation Year Only)  
Grade Level: 10-12  
Prerequisite: Introduction to Engineering Design (IED) and Principles of Engineering (POE)  
Course Length: 2 semesters  
Credits Earned: 2  
Students may earn college credit if they complete the Ivy Tech application and earn a C or higher.

This course applies principles of robotics and automation. The course builds on computer solid modeling skills developed in Introduction to Engineering Design. Students use CNC equipment to produce actual models of their three-dimensional designs using G-Code programming language. Fundamental concepts of robotics used in automated manufacturing and design analysis are included.

PLTW HONORS AEROSPACE ENGINEERING  
Grade Level: 11-12  
Prerequisite: Introduction to Engineering Design (IED) and Principles of Engineering Design (POE)  
Course Length: 2 semesters  
Credits Earned: 2  
Aerospace Engineering provides students with the fundamental knowledge and experience to apply mathematical, scientific, and engineering principles to the design, development, and evolution of aircraft, space vehicles and their operating systems. Emphasis includes investigation and research on flight characteristics, analysis of aerodynamic design, and impact of this technology on the environment. Classroom instruction provides creative thinking and problem-solving activities using software that allows students to design, test, and evaluate a variety of air and space vehicles, their systems, and launching, guidance and control procedures.

PLTW HONORS ENGINEERING DESIGN AND DEVELOPMENT  
Grade Level: 12  
Prerequisite: Introduction to Engineering Design (IED), Principles of Engineering (POE) and one specialty PLTW course  
Course Length: 2 semesters  
Credits Earned: 2  
Engineering Design and Development is an engineering research course in which students work in teams to research, design, test and construct a solution to an open-ended engineering problem. The product development life cycle and a design process are used to guide the team to reach a solution to the problem. The team presents and defends their solution to a panel of outside reviewers at the conclusion of the course. The EDD course allows students to apply all the skills and knowledge learned in previous pre-engineering courses. The use of 3D design software helps students design solutions to the problem their team has chosen. This course engages students in critical thinking and problem-solving skills, time management and teamwork skills, valuable traits for students' future careers.

*Dual Credit, AP and PLTW are considered honors designations at WCS.
FAMILY AND CONSUMER SCIENCE ACADEMIES

- Culinary Arts Academy
- Education Professions Academy
- Early Childhood Education Academy
- Health and Human Services Academy

- Complete all requirements for Core 40 with Academic Honors or Technical Honors
- Complete each course with a “B-” or higher in required academy courses
- Sequence of 6 semesters of study within a particular academy required
- Earn Dual Credit and/or National Certification
- Awarded a Career Academy certificate
- Recognition at graduation
- May complete more than one career academy

*Dual Credit, AP and PLTW are considered honors designations at WCS.*
**Family & Consumer Science Academies**

<table>
<thead>
<tr>
<th>Culinary Arts</th>
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<tbody>
<tr>
<td><strong>Recommended:</strong> Interpersonal Relationships, Advanced Nutrition and Wellness, FCCLA</td>
</tr>
<tr>
<td>Semester 1</td>
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<tr>
<td>Nutrition and Wellness</td>
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<tr>
<td>Introduction to Culinary Arts</td>
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<tr>
<td>Culinary Arts and Hospitality I</td>
</tr>
<tr>
<td>Culinary Arts and Hospitality II: Culinary Arts or Culinary Arts and Hospitality II: Hospitality Mgmt</td>
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<thead>
<tr>
<th>Education Professions</th>
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<tbody>
<tr>
<td><strong>Recommended:</strong> Nutrition and Wellness, FCCLA</td>
</tr>
<tr>
<td>Semester 1</td>
</tr>
<tr>
<td>Child Development</td>
</tr>
<tr>
<td>Interpersonal Relationships or Advanced Child Development or Human Development and Wellness</td>
</tr>
<tr>
<td>Education Professions</td>
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<table>
<thead>
<tr>
<th>Early Childhood Education</th>
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<tbody>
<tr>
<td><strong>Recommended:</strong> Nutrition and Wellness, Interpersonal Relationships, Human Development and Wellness, FCCLA</td>
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<tr>
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<td>Child Development</td>
</tr>
<tr>
<td>Advanced Child Development</td>
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<tr>
<th>Health and Human Services</th>
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<tbody>
<tr>
<td><strong>Recommended:</strong> Preparing for College and Careers, FCCLA</td>
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<tr>
<td>Human Development and Wellness</td>
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<tr>
<td>Health and Human Services I</td>
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<tr>
<th>FAMILY &amp; CONSUMER SCIENCE</th>
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<tbody>
<tr>
<td>Students who want to work with people</td>
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<tr>
<td>Grade</td>
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<tr>
<td>9</td>
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<td>11</td>
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<td>12</td>
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| WACC Warsaw Area Career Center |

**Remember**

Any 3 FACS classes in BOLD takes the place of the 10th grade state health requirement!

Fashion and Textiles and Housing and Interior Design now count as Fine Arts Credits.

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*Dual Credit, AP and PLTW are considered honors designations at WCS.*
FAMILY and CONSUMER SCIENCE

Students may obtain their HEALTH CREDIT (required for all diploma types and graduation) by completing 3 credits from any of the following Family and Consumer Sciences courses:

~~Preparing for College and Careers~~~Child Development and Parenting~~~Interpersonal Relationships

~~Human Development and Wellness~~~Adult Roles and Responsibilities~~~Nutrition and Wellness~~

PREPARING FOR COLLEGE AND CAREERS
Grade Level: 9-Required Course
Prerequisite: None
Course Length: 1 semester
Credits Earned: 1

Evaluating and creating a plan for the future is the emphasis of this class. Students will explore and examine career choices by discovering personal aptitudes, interests, goals and lifestyle. This course includes investigating the 11 Indiana Career Clusters and Indiana’s College and Career Pathways. Each student will develop an individual 4-year career/college plan specifically designed to meet his/her goals. A project-based approach is used including computer and technology applications. Students will explore employability skills. The focus of the course is to realize the impact of today’s choices on tomorrow’s possibilities.

INTERPERSONAL RELATIONSHIPS
Grade Level: 9-10
Prerequisite: None
Course Length: 1 semester
Credits Earned: 1

Interpersonal Relationships focuses on personal growth, self-understanding and the development of healthy relationships in all aspects of life. Students learn relationship building skills including communication, decision-making, conflict resolution, and teamwork. Class discussion, group activities and group presentations are key components to this course.

ADULT ROLES AND RESPONSIBILITIES
Grade Level: 11-12
Prerequisite: None
Course Length: 1 semester
Credits Earned: 1

Adult Roles and Responsibilities builds skills and behaviors needed in order to prepare for adulthood in today’s ever-changing society. The project-based class focuses on becoming independent and responsible individuals within family, community, and career settings. Topics include exploring career possibilities; preparing for training/education desired after high school including the application process and financial aid options; living independently; managing finances; analyzing personal needs; decision making related to price comparisons, clothing, housing, and transportation. This course is the junior/senior continuation of Preparing for College and Careers Course.

HUMAN DEVELOPMENT AND WELLNESS
Grade Level: 11-12
Prerequisite: None
Course Length: 1 semester
Credits Earned: 1

Human Development and Wellness is a project-based class for all students. It is especially relevant for students interested in careers impacted by the family’s physical, social, emotional, and moral development and wellness across the lifespan. Major topics include: interrelationships of family and society; crises that affect family wellness and the impact of families on human development. Life events and contemporary issues addressed in this course, including family life; change; stress; abuse; and community resources.

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**FCCLA LEADERSHIP IN ACTION**
Grade Level: 10-12
Prerequisite: Preparing for College and Careers
FCCLA Membership
Course Length: 1 semester
 Credits Earned: 1

This course is an advanced-level, project-based course where students integrate higher order thinking, communication, leadership, and management processes to conduct investigations in family and community services at the local, state, and national level. Students will use FCCLA student-directed programs or projects to guide learning. Service learning experiences are an integral piece of this course. Opportunities for advanced career exploration through experiential learning will occur. It is especially appropriate for students with interest in human services, education and other “helping” professions. Membership in FCCLA is an expectation, but is not mandatory. May take up to 3 semesters.

**PERSONAL FINANCIAL RESPONSIBILITY**
Grade Level: 10-12
Course Length: 1 semester
 Credits Earned: 1

Personal Financial Responsibility addresses the identification and management of personal financial resources to meet the financial needs, wants and responsibilities of individuals and families, considering a broad range of economic, social, cultural, technological, environmental, and maintenance factors. A project-based approach that utilizes higher order thinking, communication, leadership, and management processes is recommended in order to integrate suggested topics into the study of managing personal resources. Topics include needs, wants, and goals; personal decision making; personal finance topics such as making money, banking, saving and investing, managing credit, managing risks and insurance; financial planning; consumer choices, rights, and responsibilities, and decision making related to meeting personal financial responsibilities. This course is recommended for all students regardless of their career cluster or pathway.

**INTRODUCTION TO HOUSING AND INTERIOR DESIGN**
Grade Level: 11-12
Prerequisite: None
Course Length: 1 semester
 Credits Earned: 1

This course is designed to help the student learn to make wise housing choices, to learn about art principles and their application to decorating choices, study floor plans, room and furniture arrangement and selection, study housing styles, and engage in sustainability. This course enables students to explore their creativity in the field of interior design. Topics include reading floor plan evaluation, color schemes, principles of design, furniture design and style, and furniture arranging. Appropriate computer design programs are used in this course. Projects are integrated throughout the course to provide applications to the various topics. Along with applying all concepts into a Dream House creation. **This course will count for a Fine Arts Credit for the Core 40 with Academic Honors Diploma.**

**INTRODUCTION TO FASHION AND TEXTILES**
Grade Level: 9-12
Prerequisite: None
Course Length: 1 semester
 Credits Earned: 1

This course deals with the study of textiles, sewing techniques, color and fabric selection. Topics include: knowledge of the sewing machine, sewing safety, fashion history, color, a variety of sewing techniques and applications, following pattern instructions, and project evaluation. Various projects will be made which teach basic sewing concepts and build skills from one project to the next. Knitted and woven fabrics as well as beginning knowledge of textiles will be learned. Students will become more independent and skilled as this class continues and personal project evaluation will be applied. Students are required to purchase fabric and sewing supplies for this course. **This course will count for a Fine Arts Credit for the Core 40 with Academic Honors Diploma.**

*Dual Credit, AP and PLTW are considered honors designations at WCS.*
ADVANCED FASHION AND TEXTILES
Grade Level: 10-12
Prerequisite: “C” in Intro to Textiles
Course Length: 1 semester
Credits Earned: 1

Students will continue to learn more advanced sewing techniques as projects are completed. A deeper understanding of pattern design and clothing construction will be explored. Further research of fashion, textiles, Fashion Merchandising and Fashion Careers will be a focus in this course. Students are required to purchase fabric and sewing supplies for this course.

FASHION AND TEXTILES CAREERS I
Grade Level: 11-12
Prerequisite: “C” in Advanced Fashion and Textiles
Course Length: 2 semesters
Credits Earned: 2

This course will explore the entire spectrum of careers in the fashion industry. Major topics of review will include: manufacturing process, fiber production of clothing, customer relations and best practices, fashion merchandising, forecasting trends, impact of social media on the fashion industry and career exploration. This course uses a project based approach with student choice depending on career goals. Some garment construction will be included. Students are required to purchase fabric and supplies for this course.

NUTRITION AND WELLNESS
Grade Level: 9-12
Prerequisite: None
Course Length: 1 semester
Credits Earned: 1

Nutrition and Wellness is an introductory course valuable for all students as a life foundation and academic enrichment; it is especially relevant for students interested in careers related to nutrition, culinary, and wellness. This is a nutrition class that introduces students to the basics of food preparation so they can become self-sufficient in accessing healthy and nutritious foods. This course is the first in a sequence of courses that provide a foundation for continuing and post-secondary education in all career areas related to nutrition, culinary, and wellness.

ADVANCED NUTRITION AND WELLNESS
Grade Level: 10-12
Prerequisite: “C” in Nutrition and Wellness
Course Length: 1 semester
Credits Earned: 1

This course is the second in a sequence of courses that provide a foundation for continuing post-secondary education in careers related to health, nutrition, food, and wellness. It is especially appropriate for those interested in the health science field such as nursing, dentistry, dietetics, public health, athletic training, physical therapy, and sports nutrition to name a few. This is a project-based course and topics include an extensive study of major nutrients, influences on nutrition/food choice, technological and scientific influences, nutrition related diseases, and nutrition throughout the lifecycle. Students will participate in preparing healthy foods, modify recipes, analyze personal eating habits, and identify the importance of required specialty diets.

SPORTS NUTRITION
Grade Level: 10-12
Prerequisite: “C” in Nutrition and Wellness; Coach Approval
Course Length: 1 semester
Credits Earned: 1

The Sports Nutrition course is a second level course specifically designed for all athletes looking to optimize their performance through nutrition and health during pre-season and postseason training. Students will take part in designing an individual nutrition plan that fits their needs and expectations for their chosen sport. In addition to learning and understanding nutrition as it relates to fitness, students will cover foundations of nutrition science such as timing of eating, hydration, dietary supplements, pre- and post-workout meals, food preparation, and specialty diets.

*Dual Credit, AP and PLTW are considered honors designations at WCS.*
INTRODUCTION TO CULINARY ARTS AND HOSPITALITY
Grade Level: 10-12
Prerequisite: “C” in Nutrition and Wellness
Course Length: 1 semester
Credits Earned: 1

This course is recommended for all students regardless of their career cluster or pathway, in order to build basic culinary arts knowledge and skills. A project-based approach that utilizes higher order thinking, communication, leadership, and management processes is used. Topics include basic culinary skills, safety and sanitation, nutrition, customer relations and career investigation. Students are able to explore this industry and examine their own career goals in light of their findings.

CULINARY ARTS AND HOSPITALITY I*
(DC6 HOSP 101 HOSP 102 ITCC)
Grade Level: 11-12
Prerequisite: “C” Introduction to Culinary Arts
Acceptance to program required. (Acceptance method varies from program to program.)
Course Length: 2 semesters - 3 periods
Credits Earned: 6
Student must meet Ivy Tech placement scores in order to receive college credit at no charge. See Appendix A.

This course prepares students for occupations and higher education programs for careers in the hospitality industry. Food safety and sanitation, basic culinary skills, math, stock soup and sauce preparation, use of various cooking methods, preparation of fruits, vegetables, potatoes and grains, communication and management skills, basic theory and facts, and exposure to current trends and current events within the industry are covered. Students will receive real life restaurant experience in the WACC restaurant, “The Blue Apron” as they rotate to every station within the restaurant setting. Students will be required to complete the Management ServSafe curriculum and pass the national Management ServSafe Certification. Students completing both Culinary Arts and Hospitality I and Culinary Arts and Hospitality II may earn 11-14 hours of dual credit from Ivy Tech Community College.

CULINARY ARTS AND HOSPITALITY II:
CULINARY ARTS*
(DC6 HOSP 104 HOSP 105 ITCC)
Grade Level: 12
Prerequisite: “C” in Culinary Arts
Acceptance to program required. (Acceptance method varies from program to program.)
Course Length: 2 semesters - 3 periods
Credits Earned: 6
Student must meet Ivy Tech placement scores in order to receive college credit at no charge. See Appendix A.

This course is a continuation of Culinary Arts. Students will continue to receive real life restaurant experience in the WACC restaurant, “The Blue Apron.” The focus of this course will be to gain knowledge and skills to become a chef and work in “the back of the house.” Students will rotate between stations within the restaurant setting; hone their knife skills, practice safety and sanitation, and master the sixteen cooking methods necessary for a successful transition into a culinary post-secondary education.

CULINARY ARTS AND HOSPITALITY II:
HOSPITALITY MANAGEMENT*
(DC3 HOSP 114 ITCC)
Grade Level: 12
Prerequisite: “C” in Culinary Arts and Hospitality I and Chef Recommendation/Approval
Course Length: 2 semesters - 3 periods
Credits Earned: 6
Student must meet Ivy Tech placement scores in order to receive college credit at no charge. See Appendix A.

This course prepares students for employment in the hospitality industry. This is a broad based course that introduces students to all segments of hospitality and career opportunities that are available. Students will learn to identify current trends in hotel and restaurant management, distinguish between hospitality and tourism, and learn about purchasing and inventory. Intensive experiences in one or more hospitality industry settings are a required component of the course. Students are monitored by their teacher/Chef. Students will get extensive experience in the WACC restaurant, “The Blue Apron” and may also be involved in a community based hospitality setting.
**Family, Career, Community Leaders of America (FCCLA)**

This club offers members the opportunity to expand their leadership potential and develop skills for life—planning, goal setting, problem solving, decision making, and interpersonal communication—necessary in the home and workplace. FCCLA is the only nationally recognized Career and Technical Student Organization with the family as its central focus. The organization provides active student participation at local, state, and national levels and is open to all high school grade levels. For more information contact Ms. Shannon Bassett at sbassett@warsawschools.org or Mrs. Dena Lancaster at dlancaster@warsawschools.org.

**CHILD DEVELOPMENT**

Grade Level: 9-12  
Prerequisite: None  
Course Length: 1 semester  
Credits Earned: 1

This course provides an opportunity for students to learn more about the aspects of human growth and development. The curriculum will benefit students who plan to be parents or pursue a profession in a child related career such as education, child psychology, pediatric medicine, and family therapy. After investigating current issues affecting children and families, the students will study conception, prenatal development and the birth process. Parenting skills are developed as positive guidance techniques and child-related issues are studied. Other topics include the importance of the family and the seriousness of sexual health. A thoroughly documented student portfolio will be compiled.

**ADVANCED CHILD DEVELOPMENT**

Grade Level: 10-12  
Prerequisite: "C" in Child Development Portfolio from Child Development is required  
Course Length: 1 semester  
Credits Earned: 1

This course provides an opportunity for hands on experience using “RealCare Infant Simulators” to practice the many aspects of parenting. Additional child related topics such as brain development, discipline, feeding, childhood literacy, childcare; car seat safety, FAS, SIDS, nutrition, and creative play are explored. Students work individually and cooperatively on a special project that includes planning, preparing and implementing a lesson that will increase their knowledge and understanding of young children.

**EARLY CHILDHOOD EDUCATION I***

Grade Level: 12  
Prerequisite: Child Development and Adv. Child Development Acceptance to program required. (Acceptance method varies from program to program.)  
Length: 2 semesters (3 periods)  
Credits Earned: 6  
Student must meet Ivy Tech placement scores in order to receive college credit at no charge. See Appendix A.

Early Childhood Education is recommended for students interested in preschool, day care and elementary school education (up to 3rd grade). Courses are taken at Ivy Tech and students earn college credits. Course material examines principles of child development and developmentally appropriate environments and activities in various childcare settings, as well as providing an overview of the history and foundations of early childhood education. This program also includes work-based learning and students will spend time each week observing and participating in different childcare settings including day cares and preschools. Students must provide their own transportation on a daily basis. Students are responsible for the cost of college textbooks, CPR class, a state background check, a physical, a Mantoux test, and a drug screen.

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*Dual Credit, AP and PLTW are considered honors designations at WCS.*
EDUCATION PROFESSIONS*
(DC6 SED 1000 SED 2400 GRACE)
Grade Level: 11-12
Recommended: 4 credits in career pathway
Acceptance to program required. (Acceptance method varies from program to program.)
Course Length: 2 semesters (2 periods)
Credits Earned: 4
(plus fast-track acceptance to Grace College Education department)

This class is an introduction to the profession of teaching. Students who are college and career ready will have the opportunity to earn dual credit for two college courses: Teaching School in America and Teaching Exceptional Learners. Learning experiences are structured both in and out of the classroom with the purpose of assisting in making career decisions relative to this profession. The Teaching Exceptional Learners course is designed for prospective teachers, elementary or secondary, working with children at home or in social agencies. The intent is to develop an introduction to children with exceptionalities and practical strategies to assist these children, especially in an educational setting. This course will examine the types of Exceptionalities, the laws that apply to them, as well as adaptations and special services that are provided to them in a regular classroom setting and in alternative educational settings. If you are curious about a teaching profession, accept challenge well, possess an excellent attendance record, and have good grades, this is the class to take. Please contact Sarah McCreery at smccreery@warsawschools.org if you have additional questions about this course.

HEALTH AND HUMAN SERVICES I*
(DC12 HUMS 101 HUMS 102 HUMS 103 HUMS 206 ITCC)
Grade Level: 12
Prerequisite: Acceptance to program required. (Acceptance method varies from program to program.)
Course Length: 2 semesters-3 periods
Credits Earned: 6 + Dual Credit Ivy Tech

Student must meet Ivy Tech placement scores in order to receive college credit at no charge. See Appendix A.

Students will explore the history of human services, career opportunities, and the role of the human service worker. Target populations and community agencies designed to meet the needs of various populations will be explored. Opportunities are provided to increase effectiveness in helping people. The helping process in terms of skills, helping stages, and issues involved in a helping relationship will be studied. Basic interviewing skills and assessment strategies will be learned along with developing treatment plans. Group dynamics including group functioning, guidelines on working effectively with a co-leader and practical ways of evaluating the group process will be learned. This program includes work-based learning and students will spend 5-6 hours per week observing the human services field. Students must provide their own transportation on a daily basis. Students are responsible for the cost of college text books. Courses are taken at Ivy Tech.

WORK-BASED LEARNING CAPSTONE: INTERNSHIP & CO-OP
Grade Level: 12
Prerequisite: Complete 4 credits in a Career Pathway + Preparing for College & Careers

Acceptance to program required. (Acceptance method varies from program to program.)
Course Length: 2 semesters
Credits Earned: 4/6

Students pursue their Career Path with on the job work experience and learn life and work skills to prepare them for their career.

**See WORK-BASED LEARNING section.

*Dual Credit, AP and PLTW are considered honors designations at WCS.
HEALTH SCIENCE/
PUBLIC SAFETY ACADEMIES

- Health Science Professionals Academy
- Biomedical Academy
- Public Safety Academy
- Criminal Justice Academy
- Cosmetology Academy

➢ Complete all requirements for Core 40 with Academic Honors or Technical Honors
➢ Complete each course with a “B-” or higher in required academy courses
➢ Sequence of 6 semesters of study within a particular academy required
➢ Earn Dual Credit and/or National Certification
➢ Awarded a Career Academy certificate
➢ Recognition at graduation
➢ May complete more than one career academy

*Dual Credit, AP and PLTW are considered honors designations at WCS.
### Health Science/Public Safety Academies

**Health Science Professionals Academy**

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose two (2):</td>
<td></td>
</tr>
<tr>
<td>Anatomy &amp; Physiology</td>
<td>Principles of Biomedical Science</td>
</tr>
<tr>
<td>(1 period)</td>
<td>(1 period)</td>
</tr>
<tr>
<td>Medical Terminology</td>
<td>Human Body Systems</td>
</tr>
<tr>
<td>(1 period) (dual credit)</td>
<td>(1 period)</td>
</tr>
<tr>
<td>Principles of Biomedical Science (1 period)</td>
<td>(1 period)</td>
</tr>
<tr>
<td>Human Body Systems</td>
<td>Medical Intervention</td>
</tr>
<tr>
<td>(1 period)</td>
<td>(1 period)</td>
</tr>
<tr>
<td>Health Science Education</td>
<td>Biomedical Innovations</td>
</tr>
<tr>
<td>(Ivy Tech) (4 periods) (dual credit)</td>
<td>(1 period) (dual credit)</td>
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</table>

**Biomedical Academy**

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principles of Biomedical Science</td>
<td></td>
</tr>
<tr>
<td>(1 period)</td>
<td></td>
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<tr>
<td>Human Body Systems</td>
<td></td>
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<tr>
<td>(1 period)</td>
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<tr>
<td>Medical Intervention</td>
<td></td>
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<tr>
<td>(1 period)</td>
<td></td>
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<tr>
<td>Biomedical Innovations</td>
<td></td>
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<tr>
<td>(1 period) (dual credit)</td>
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**Public Safety Academy**

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical Terminology</td>
<td>Emergency Medical Technician</td>
</tr>
<tr>
<td>(1 period) (dual credit)</td>
<td>(2 periods) (dual credit)</td>
</tr>
<tr>
<td>Fire Rescue I</td>
<td></td>
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<tr>
<td>(1 period)</td>
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**Criminal Justice Academy**

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Law and Ethics</td>
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<tr>
<td>(1 period)</td>
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<tr>
<td>Criminal Justice</td>
<td></td>
</tr>
<tr>
<td>(3 periods) (dual credit)</td>
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</table>

**Cosmetology Academy**

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integrated Chemistry and/or Chemistry I</td>
<td></td>
</tr>
<tr>
<td>(1 period)</td>
<td></td>
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<tr>
<td>Cosmetology I</td>
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<tr>
<td>(5 periods)</td>
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<tr>
<td>Cosmetology II</td>
<td></td>
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<tr>
<td>(5 periods)</td>
<td></td>
</tr>
</tbody>
</table>

*Dual Credit, AP and PLTW are considered honors designations at WCS.*
Biomedical Academy

9/10
Principles of Biomedical Science (PBS)

10/11
Human Body Systems (HBS)

11/12
Medical Interventions (MI)

12
Biomedical Innovations* (BI)

*MI and BI can both be taken senior year if you started the Biomedical Program as a sophomore.

ECA score of a 6-9 earns 3 articulated college credits through IUPUI

ECA score of 6-9 earns 3 articulated college credits through IUPUI

ECA score of 6-9 earns 3 articulated college credits through IUPUI

Earns 4 college credits through Ivy Tech Community College

*Dual Credit, AP and PLTW are considered honors designations at WCS.
HEALTH SCIENCE/ PUBLIC SAFETY

MEDICAL TERMINOLOGY INTENSE*
(DC3 HLHS 101 ITCC)
Grade Level: 11-12
Prerequisite: None
Length: 1 semester
Credits Earned: 1
Student must meet Ivy Tech placement scores in order to receive college credit at no charge. See Appendix A.

This fast-paced college credit course addresses basic terminology required of the allied health professional and provides a solid basic knowledge of anatomy and physiology of the human body systems, pathology, special procedures, laboratory procedures and pharmacology. Greek and Latin prefixes are presented, as well as suffixes, word roots, and combining forms. Emphasis is on forming a solid foundation for medical vocabulary including meaning, spelling and punctuation. Medical abbreviations, signs and symbols are included.

MEDICAL TERMINOLOGY *
(DC3 HLHS 101 ITCC)
Grade Level: 11-12
Prerequisite: None
Length: 2 semesters
Credits Earned: 2
Student must meet Ivy Tech placement scores in order to receive college credit at no charge. See Appendix A.

This course addresses basic terminology required of the allied health professional and provides a solid basic knowledge of anatomy and physiology of the human body systems, pathology, special procedures, laboratory procedures and pharmacology. Greek and Latin prefixes are presented, as well as suffixes, word roots, and combining forms. Emphasis is on forming a solid foundation for medical vocabulary including meaning, spelling and punctuation. Medical abbreviations, signs and symbols are included.

MEDICAL TERMINOLOGY INTENSE
Grade Level: 11-12
Prerequisite: None
Length: 1 semester
Credits Earned: 1

This fast-paced college credit course addresses basic terminology required of the allied health professional and provides a solid basic knowledge of anatomy and physiology of the human body systems, pathology, special procedures, laboratory procedures and pharmacology. Greek and Latin prefixes are presented, as well as suffixes, word roots, and combining forms. Emphasis is on forming a solid foundation for medical vocabulary including meaning, spelling and punctuation. Medical abbreviations, signs and symbols are included.

MEDICAL TERMINOLOGY
Grade Level: 11-12
Prerequisite: None
Length: 2 semesters
Credits Earned: 2

This course addresses basic terminology required of the allied health professional and provides a solid basic knowledge of anatomy and physiology of the human body systems, pathology, special procedures, laboratory procedures and pharmacology. Greek and Latin prefixes are presented, as well as suffixes, word roots, and combining forms. Emphasis is on forming a solid foundation for medical vocabulary including meaning, spelling and punctuation. Medical abbreviations, signs and symbols are included.

*Dual Credit, AP and PLTW are considered honors designations at WCS.
HEALTH SCIENCE EDUCATION*
(DC11 HLHS 100 HLHS 101 HLHS 107 ITCC)
Grade Level: 12
Prerequisite: Acceptance to program required. (Acceptance method varies from program to program.)
Recommended: Biology, Algebra I & II, Geometry
Length: 2 semesters (4 periods)
Credits Earned: 6
Student must meet Ivy Tech placement scores in order to receive college credit at no charge. See Appendix A.

Courses are taken on the Ivy Tech campus. Upon successful completion, students earn college credit. Course material includes an overview of health care professions and standards. Course material also covers medical terminology and provides a basic knowledge of anatomy and physiology, special procedures, laboratory procedures and pharmacology. Emphasis is on forming a foundation for a medical vocabulary including meaning, spelling and pronunciation. Course material will also teach students the skills necessary to become a Certified Nursing Assistant (CNA) and to obtain a CNA license, thus allowing them to work in long-term care facilities. This course prepares students with the knowledge, skills and attitudes essential for providing basic care in extended care facilities, hospitals and home health agencies under the direction of licensed nurses. Students learn hands-on nursing skills in the classroom and laboratory setting as well as attending a clinical site (nursing home).

This program also includes work-based learning and students spend time observing in different health care settings as well as listening to guest speakers from the health care field. Upon earning a CNA license, students will also be able to explore possible job opportunities as a CNA. Transportation to Ivy Tech and work-based learning sites is required daily and must be provided by the student. Students are responsible for the cost of college textbooks, scrubs, CPR class, a background check, a physical, two Mantoux tests, and drug screening.

HONORS ANATOMY & PHYSIOLOGY
Grade Level: 11-12
Prerequisite: Bio 1, Chemistry I
Course Length: 2 semesters
Credits Earned: 2

In this course students will learn about the most wondrous of all structures, the human body. This class will provide and in-depth study of the body tissues, the principles of support and movement, and the nervous system. Students are exposed to basic body processes such as digestion, respiration, circulation, reproduction, and immunology. There is an emphasis on the interrelationship of body processes and the maintenance of homeostasis. Emphasis will be placed on the practical aspects of anatomy, from both microscopic and gross study combined with relevant physiological application to the health care professional. Clinical terms that relate to topics will be identified and defined. The lab experiences will include microscopic study of cells and tissues dissection, and viewing of a professionally taped human autopsy. This is an academically intense course that requires a motivated student.

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EMERGENCY MEDICAL TECHNICIAN*
(DC7.5 PARM 102 ITCC)
Grade Level: 12
Prerequisite: Acceptance to program required. (Acceptance method varies from program to program.)
Length: 1 semester (2 periods)
Credits Earned: 2
Students may earn college credit if they complete the Ivy Tech application and earn a C or higher.

This course is being offered in partnership with Multi-Township EMS of Warsaw. It is a state-approved curriculum for E.M.T. training. Once completed and reaching the age of 18, the student can take the state test and if successful, become a licensed E.M.T. Students are required to have specific shots which can be obtained from the family doctor or the county health clinic. Course offering is dependent on the number of students and instructor availability.

The Fire and Rescue curriculum includes five Indiana state fire certifications: (1) Mandatory, (2) Firefighter I, (3) Firefighter II, (4) Hazardous Materials Awareness, and (5) Hazardous Materials Operations. This is intended to be a 2-year program.

FIRE RESCUE I
Grade Level: 11-12
Prerequisite: Commitment to 2-year program
Acceptance to program required. (Acceptance method varies from program to program.)
Course Length: 2 semesters
Credits Earned: 2

During the 1st year, students have the opportunity to earn 2 of the certifications. Enrolling in the second year affords the student the opportunity to earn the final three certifications. Seniors taking only one year of the curriculum can complete the remaining three certifications through a cooperating fire department; arrangements to do so can be made with the help of the instructor.

FIRE RESCUE II
Grade Level: 12
Prerequisite: Fire Rescue I
Acceptance to program required. (Acceptance method varies from program to program.)

Course Length: 2 semesters
Credits Earned: 2

Fire Rescue II builds on skills learned in Fire Rescue I. During the 2nd year, students have the opportunity to earn the remaining certifications to become a fire fighter.
**COSMETOLOGY I**
Grade Level: 11
Prerequisite: Commitment to 2-year program and good attendance
Acceptance to program required. (Acceptance method varies from program to program.)
Course Length: 2 semesters (5 periods)
Credits Earned: 6

A two-year course designed to complete 1,500 hours of combined theory and hands-on skills needed to complete requirement for licensure of a cosmetologist. First year students learn basic skills, sanitation rules, and are provided realistic hands-on experiences in a salon environment. When students successfully follow the prescribed curriculum and salon hours, they will be able to take the state board exam for cosmetology and obtain a license to work in a salon. The students will be required to purchase their individual kit ($500.00) before the first day of school. **Transportation** must be provided by the student.

**WORK-BASED LEARNING CAPSTONE:**
**INTERNSHIP & CO-OP**
Grade Level: 12
Prerequisite: Complete 4 credits in a Career Pathway + Preparing for College & Careers
Acceptance to program required. (Acceptance method varies from program to program.)
Course Length: 2 semesters
Credits Earned: 4/6

Students pursue their Career Path with on the job work experience and learn life and work skills to prepare them for their career.

**See WORK-BASED LEARNING section**

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**COSMETOLOGY II**
Grade Level: 12
Prerequisite: Commitment to 2-year program and good attendance
Acceptance to program required. (Acceptance method varies from program to program.)
Course Length: 2 semesters (3 periods)
Credits Earned: 6

Cosmetology II builds on concepts learned in Cosmetology I with an emphasis on the development of advanced skills in styling, hair coloring, permanent waving, facials and manicuring. Students will receive training on the clinic floor while working on patrons. Students will also study anatomy and physiology, professionalism, and salon management in relation to cosmetology. When students successfully follow the prescribed curriculum and salon hours, they will be able to take the state board exam for cosmetology and obtain a license to work in a salon. The fees for the second year student will be the License Exam set forth by the state, and License ($40.00) which is valid for four years. Class extends beyond the normal school hours. Class is 12:30-4:30 daily. Students may choose to have a delay start each day. **Transportation** must be provided by the student.

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BIOMEDICAL SCIENCE
PROJECT LEAD THE WAY

PLTW PRINCIPLES OF BIOMEDICAL SCIENCE* (DC3 BIOL 10011 IUPUI)
Grade Level: 9-10
Prerequisite: B in Math and Science
Course Length: 2 semesters
Credits Earned: 2+ Articulated Dual Credit

This course provides an introduction to the biomedical sciences through exciting hands-on projects and problems. Students investigate concepts of biology and medicine as they explore health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They will determine the factors that led to the death of a fictional woman as they sequentially piece together evidence found in her medical history and her autopsy report. Students will investigate lifestyle choices and medical treatments that might have prolonged the woman’s life and demonstrate how the development of disease is related to changes in human body systems. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes and allow students to design experiments to solve problems. Key biological concepts including maintenance of homeostasis in the body, metabolism, inheritance of traits, and defense against disease are embedded in the curriculum. This course is designed to provide an overview of all the courses in the biomedical sciences program and lay the scientific foundation for subsequent courses. ECA score of a 6-9 earns 3 articulated college credits through IUPUI.

PLTW HUMAN BODY SYSTEMS* (DC3 BIOL 10012 IUPUI)
Grade Level: 10-12
Prerequisite: B in Biology and PBS
Course Length: 2 semesters
Credits Earned: 2+ Articulated Dual Credit

Students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body with dissections and models, and use data acquisition software to monitor body functions. Students will be introduced to the role of DNA, brain functions, reflex vs. voluntary actions, hormones, respiration, metabolism, muscles and joint movement, and lymph functions. Exploring science in action, students build tissues and organs on a skeletal manikin, work through interesting real world cases and often play the role of biomedical professionals to solve medical mysteries. ECA score of a 6-9 earns 3 articulated college credits through IUPUI.

PLTW MEDICAL INTERVENTION* (DC3 BIOL 10013 IUPUI)
Grade Level: 11-12
Prerequisite: B in PBS and HBS
Course Length: 2 semesters
Credits Earned: 2+ Articulated Dual Credit

Students will investigate the variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the lives of a fictitious family. A “How-To” manual for maintaining overall health and homeostasis in the body, the course will explore how to prevent and fight infection, how to screen and evaluate the code in our DNA, how to prevent, diagnose and treat cancer, and how to prevail when the organs of the body begin to fail. Each family case scenario will introduce multiple types of interventions and will reinforce concepts learned in the previous two courses, as well as present new content. Interventions may range from simple diagnostic tests to treatment of complex diseases and disorders. These interventions will be showcased across the generations of the family and will provide a look at the past, present and future of biomedical science. ECA score of a 6-9 earns 3 articulated college credits through IUPUI.

PLTW BIOMEDICAL INNOVATIONS* (DC4 PLTW BIOT 107 ITCC)
Grade Level: 12
Prerequisite: B in PBS, HBS, and MI
Course Length: 2 semesters
Credits Earned: 2

Students may earn college credit if they complete the Ivy Tech application and earn a C or higher.

It is suggested to also take Medical Intervention before Biomedical Innovation, but Medical Intervention and Biomedical Innovation may be simultaneously. In this capstone course, students apply their knowledge and skills to answer questions or solve problems related to the biomedical sciences. Students design innovative solutions for the health challenges of the 21st century as they work through progressively challenging open-ended problems, addressing topics such as an effective ER, human physiology, biomedical engineering, and public health, forensic autopsy, and molecular biology. They may work with a mentor or advisor from a university, hospital, physician’s office, or industry as they complete their work. Throughout the course, students are expected to present their work to an adult audience that may include representatives from the local healthcare or business community or the school’s PLTW® partnership team.
CAREER AND TECHNICAL EDUCATION
MULTIPLE PERIOD COURSES

Acceptance to a multiple period course will enter your name in random Drug Testing.

<table>
<thead>
<tr>
<th>COURSE NAME</th>
<th>GRADE LEVEL</th>
<th>PREREQUISITE</th>
<th>COURSE LENGTH</th>
<th>CREDITS EARNED</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUILDING TRADES TECHNOLOGY I*</td>
<td>11-12</td>
<td>Acceptance to program required. (Acceptance method varies from program to program.)</td>
<td>2 semesters (3 periods)</td>
<td>6</td>
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<tr>
<td>(DC6 BCTI 100 BCTI 101 ITCC)</td>
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<td>Recommended: Introduction to Construction</td>
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<td></td>
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<tr>
<td>LANDSCAPE MANAGEMENT I*</td>
<td>10-12</td>
<td>Recommended: Intro to Agriculture or Horticulture Science</td>
<td>1 semester</td>
<td>2</td>
</tr>
<tr>
<td>(DC3 AGRI 164 ITCC)</td>
<td></td>
<td>Students may earn college credit if they complete the Ivy Tech application and earn a C or higher.</td>
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<tr>
<td>BUILDING TRADES TECHNOLOGY II*</td>
<td>12</td>
<td>Prerequisite: Building Trades I and Instructor Approval</td>
<td>2 semesters (3 periods)</td>
<td>6</td>
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<tr>
<td>(DC9 BCTI 102 BCTI 103 BCTI 104 ITCC)</td>
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<td>Students may earn college credit if they complete the Ivy Tech application and earn a C or higher.</td>
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<tr>
<td>LANDSCAPE MANAGEMENT II</td>
<td>12</td>
<td>Prerequisite: Landscape Mgt. I</td>
<td>1 semester</td>
<td>2</td>
</tr>
<tr>
<td>LANDSCAPE MANAGEMENT II</td>
<td>12</td>
<td>Course Length: 1 semester</td>
<td></td>
<td></td>
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<tr>
<td>LANDSCAPE MANAGEMENT II</td>
<td>12</td>
<td>Credits Earned: 2</td>
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*Dual Credit, AP and PLTW are considered honors designations at WCS.
### AUTOMOTIVE SERVICES TECHNOLOGY I*
*(DC9 AUTI 100 AUTI 111 AUTI 121 ITCC)*
**DUAL CREDIT PENDING**

<table>
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<tr>
<th>Grade Level:</th>
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<tbody>
<tr>
<td>Prerequisite:</td>
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<tr>
<td>Recommended:</td>
<td>Introduction to Transportation</td>
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<tr>
<td>Course Length:</td>
<td>2 semesters</td>
</tr>
<tr>
<td>Credits Earned:</td>
<td>6</td>
</tr>
</tbody>
</table>

Automotive Services Technology I is a one-year course that encompasses the sub-topics of the NATEF/ASE identified areas of Steering & Suspension and Braking Systems. This program covers the basic understanding of the new technologies and principles necessary to perform repairs on your own vehicles or to prepare for a career in the automotive industry using both a textbook and practical lab experience. Students will learn about engine repair, engine performance, brakes, steering, suspension and tire service. Mathematical skills will be reinforced through precision measuring activities as well as cost estimation and calculation activities. Scientific principles taught and reinforced in this course include the study of viscosity, friction, thermal expansion, and compound solutions. Written and oral skills will also be emphasized to help students communicate with customers, colleagues, and supervisors. This course is taught at Tippecanoe Valley High School. **Transportation must be provided by the student.**

### COSMETOLOGY I

<table>
<thead>
<tr>
<th>Grade Level:</th>
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<tbody>
<tr>
<td>Prerequisite:</td>
<td>Commitment to 2-year program and good attendance</td>
</tr>
<tr>
<td>Acceptance to program required.</td>
<td>(Acceptance method varies from program to program.)</td>
</tr>
<tr>
<td>Course Length:</td>
<td>2 semesters (5 periods)</td>
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<tr>
<td>Credits Earned:</td>
<td>6</td>
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A two-year course designed to complete 1,500 hours of combined theory and hands-on skills needed to complete requirement for licensure of a cosmetologist. First year students learn basic skills, sanitation rules, and are provided realistic hands-on experiences in a salon environment. When students successfully follow the prescribed curriculum and salon hours, they will be able to take the state board exam for cosmetology and obtain a license to work in a salon. The students will be required to purchase their individual kit ($500.00) before the first day of school. **Transportation must be provided by the student.**

### COSMETOLOGY II

<table>
<thead>
<tr>
<th>Grade Level:</th>
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<tbody>
<tr>
<td>Prerequisite:</td>
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<tr>
<td>Acceptance to program required.</td>
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</table>

Cosmetology II builds on concepts learned in Cosmetology I with an emphasis on the development of advanced skills in styling, hair coloring, permanent waving, facials and manicuring. Students will receive training on the clinic floor while working on patrons. Students will also study anatomy and physiology, professionalism, and salon management in relation to cosmetology. When students successfully follow the prescribed curriculum and salon hours, they will be able to take the state board exam for cosmetology and obtain a license to work in a salon. The fees for the second year student will be the License Exam set forth by the state, and License ($40.00) which is valid for four years. Class extends beyond the normal school hours. Class is 12:30-4:30 daily. Students may choose to have a delay start each day. **Transportation must be provided by the student.**

### AUTOMOTIVE SERVICES TECHNOLOGY II*
*(DC9 AUTI 122 AUTI 131 AUTI 141 ITCC)*
**DUAL CREDIT PENDING**

<table>
<thead>
<tr>
<th>Grade Level:</th>
<th>11-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prerequisite:</td>
<td>Automotive Services Technology I</td>
</tr>
<tr>
<td>Course Length:</td>
<td>2 semesters</td>
</tr>
<tr>
<td>Credits Earned:</td>
<td>6</td>
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</tbody>
</table>

Advanced Auto continues to work in servicing, maintenance, and repair of the modern automobile. The course provides students with a background of procedures and practical job skills concentrating on electrical/electronics and engine performance but is not limited to these areas. It is possible for students to receive college credit and automotive certification with successful completion of this course. Mathematical skills will be reinforced through precision measuring activities and cost estimation/calculation activities. Scientific principles taught and reinforced in this course include the study of viscosity, friction, thermal expansion, and compound solutions. Written and oral skills will also be emphasized to help students communicate with customers, colleagues, and supervisors. **Transportation must be provided by the student.**

*Dual Credit, AP and PLTW are considered honors designations at WCS.*
Precision Machine Technology I*  
(DC9 MTTC 101 MTTC 102 MTTC 103 ITCC)  
Grade Level: 10-12  
Prerequisite: Acceptance to program required.  
(Acceptance method varies from program to program.)  
Recommended: Introduction to Manufacturing  
Course Length: 2 semesters (2 periods)  
Credits Earned: 4  
Students may earn college credit if they complete the Ivy Tech application and earn a C or higher.  

The Precision Machine Technology course is a 2-year program; most students entering this program plan on completing both years. The beginning (PMT I) class covers fundamentals of machinist hand tools, precision measurement, blueprint reading, engine lathe, drill press, vertical milling machine, and other machine tools. The advanced (PMT2) class expands the understanding of Manual mills and lathes, multi component assemblies, advanced understanding of abrasive processes, and then moves into CNC programming, setup and operation. This program enables a graduate various career opportunities such as those available in local industry including the orthopedic appliance and other high tech manufacturing careers. Typical careers include machinist, tool grinder, and tool & die maker, quality control, CNC operator, machine setup, CAD/CAM Engineer, machine repair, and CNC programmer. There is a small fee to cover safety equipment and supplies for this program. Questions regarding fees should be directed to the Career Center office.

Precision Machine Technology II*  
(DC12 MTTC 105 MTTC 106 MTTC 107 MTTC 208 ITCC)  
Grade Level: 11-12  
Prerequisite: Precision Machine I and Instructor Approval  
Length: 2 semesters (3 periods)  
Credits Earned: 6  
Students may earn college credit if they complete the Ivy Tech application and earn a C or higher.  

Precision Machining Technology II (PMT II) is now being offered in our partnership with Ivy Tech Community College and classes are taught at the Orthopedic and Advanced Manufacturing Training Center. The program offers both classroom instruction and hands-on learning using manual and computer numerical control (CNC) machines and those successfully completing all classes will earn a Certificate (CT) in Machine Tool Technology from Ivy Tech as well as credits toward their high school diploma. Students have the opportunity to earn National Institute of Metalworking Skills (NIMS) Certifications which are nationally recognized and provide graduates with opportunities for employment and to earn higher wages. Virtually all manufactured products depend on America’s precision machining industry at some point in their production, and the skills learned in this program will prepare graduates for work after high school or will allow them to continue working toward an Associates in Applied Science in Machine Tool Technology on either a full or part time basis.

Welding Technology I*  
(DC6 WELD 100 WELD 108 ITCC)  
Grade Level: 11-12  
Prerequisite: Acceptance to program required.  
(Acceptance method varies from program to program.)  
Recommended: Introduction to Manufacturing  
Course Length: 2 semesters (2 periods)  
Credits Earned: 4  
Students may earn college credit if they complete the Ivy Tech application and earn a C or higher.  

This course includes classroom and laboratory experiences of arc, MIG, and oxy-acetylene welding/brazing, cutting (gas and plasma), blueprint reading, welding symbols, and auxiliary equipment (horizontal band saw, chop saw, iron worker, and drill press). Welds will be performed in a variety of positions to complete common joints using American Welding Society (AWS) standards. Safety is emphasized with all equipment and procedures. This is year one of a two-year course offering. 

Welding students are required to purchase safety equipment for this class. A list of anticipated fees is available in the Career Center Office.  

Welding Technology II*  
(DC 9 WELD 109 WELD 207 WELD 208 ITCC)  
Grade Level: 12  
Prerequisite: Welding I and Instructor Approval  
Course Length: 2 semesters (2 periods)  
Credits Earned: 4  
Students may earn college credit if they complete the Ivy Tech application and earn a C or higher.  

Includes fundamental skills achieved in Welding Technology I plus TIG welding using a variety of metals. Emphasis will be placed on fabrication techniques to include layout, sequence of operations, set up, positioning, aligning, fitting and welding of parts. Students who become proficient in all phases may have the opportunity for short-term placement with area employers to apply learned skills. Students successfully completing the two-year program may earn certifications through AWS (American Welding Society). Year 2 students must return with all equipment from year 1 in good working condition.

*Dual Credit, AP and PLTW are considered honors designations at WCS.
TV PRODUCTION II*
(DC4 DM 196 TVI DM196 TVII HU)
Grade Level: 10-12
Prerequisite: Radio and TV Production I, IM: Video Editing, and Strong Communication Skills

Acceptance to program required. (Acceptance method varies from program to program.)
Course Length: 2 semesters (2 periods)
Credits Earned: 4

Students may earn college credit if they complete the Huntington application and earn a C or higher.
This dual credit course provides students with an overview of roles and responsibilities associated with the television production industry. The theory and operation of TV production equipment including camera, switcher, CGs, teleprompter, audio console, lighting, talent, and video editing are studied. Students enrolled in this course produce WACC TV News as well as PSAs, commercials, and other short video productions. (Participation in some activities beyond the regular school day is required).

VIDEOGRAPHY
Grade Level: 11-12
Prerequisite: Video Editing and Strong Communication Skills

Acceptance to program required. (Acceptance method varies from program to program.)
Recommended: Radio and TV I
Course Length: 1 semester (2 periods)
Credits Earned: 2

Videoigraphy provides students with a variety of real-world learning opportunities through hands-on experiences. Students will become familiar with the roles of screenwriter, producer, director, camera operator, sound mixer, actor, and editor through a variety of individual and group projects. This course offers hands-on camera, lighting and audio training as well as editing instruction utilizing Final Cut Pro X for editing. Students will complete a variety of short film projects to acquire knowledge about the various aspects of preproduction, production and postproduction. In addition to learning how to write a script and breakdown an original short film, students will conduct a professional pitch that will be presented for competition to determine the final competition to determine the final group film projects of the semester.

FILM PRODUCTION
Grade Level: 11-12
Prerequisite: Videography

Acceptance to program required. (Acceptance method varies from program to program.)
Course Length: 1 semester (3 periods)
Credits Earned: 3

This hands-on course takes students on a filmmaker’s journey from idea to screen. Film Making focuses on script development, electronic field production (EFP), and digital non-linear editing. Instruction is designed to further develop and enhance skill sets learned in Videography and assist students in the acquisition of basic film making knowledge for a future career in film. In groups, students will cultivate and produce a 20-30 minute film or documentary production and participate as the key members of a production crew. They will be responsible for pre-production, production, and post-production of film and/or documentary projects. Students are expected to pay close attention to details and work collaboratively in production situations that presently exist in the film industry. They will also be expected to produce films both on campus and on location in the community. Resources and materials consist of cameras, lighting systems, and audio equipment, desktop editing via Final Cut Pro X and camera stabilization systems. In addition, students will be asked to market their projects.

GRAPHIC IMAGING TECHNOLOGY
Grade Level: 11-12
Prerequisite: Communications System, C or higher

Acceptance to program required. (Acceptance method varies from program to program.)
Course Length: 2 semesters (2 periods)
Credits Earned: 4

Graphic imaging Technology will include organized learning experiences that focus on theory and laboratory activities in pre-press, press, and finishing operations. Emphasis will be placed on design and layout leading to computerized electronic image generation, plate preparation, pressroom operations, and finishing techniques. The course will include actual production processes in conjunction with classroom assignments using the technologies of printing, publishing, packaging, electronic imaging, and their allied industries. This course is taught at Tippecanoe Valley High School and students must provide their own transportation.

*Dual Credit, AP and PLTW are considered honors designations at WCS.
CULINARY ARTS AND HOSPITALITY I*  
(DC6 HOSP 101 HOSP 102 ITCC)  
Grade Level: 11-12  
Prerequisite: “C” Introduction to Culinary Arts  
Acceptance to program required. (Acceptance method varies from program to program.)  
Course Length: 2 semesters - 3 periods  
Credits Earned: 6  
Student must meet Ivy Tech placement scores in order to receive college credit at no charge. See Appendix A.

This course prepares students for occupations and higher education programs for careers in the hospitality industry. Food safety and sanitation, basic culinary skills, math, real time restaurant experience, purchasing and inventory will be the focus of this course. Students will receive real life restaurant experience in the WACC restaurant, “The Blue Apron” as they rotate to every station within the restaurant setting. Students will be required to complete the Management ServSafe curriculum and pass the national Management ServSafe Certification.

CULINARY ARTS AND HOSPITALITY II:  
CULINARY ARTS*  
(DC6 HOSP 104 HOSP 105 ITCC)  
Grade Level: 12  
Prerequisite: “C” in Culinary Arts  
Acceptance to program required. (Acceptance method varies from program to program.)  
Course Length: 2 semesters - 3 periods  
Credits Earned: 6  
Student must meet Ivy Tech placement scores in order to receive college credit at no charge. See Appendix A.

This course is a continuation of Culinary Arts. Students will continue to receive real life restaurant experience in the WACC restaurant, “The Blue Apron.” The focus of this course will be to gain knowledge and skills to become a chef and work in “the back of the house.” Students will rotate between stations within the restaurant setting; hone their knife skills, practice safety and sanitation, and master the sixteen cooking methods necessary for a successful transition into a culinary post-secondary education.

CULINARY ARTS AND HOSPITALITY II:  
HOSPITALITY MANAGEMENT*  
(DC3 HOSP 114 ITCC)  
Grade Level: 12  
Prerequisite: “C” in Culinary Arts and Hospitality I  
Acceptance to program required. (Acceptance method varies from program to program.)  
Chef Recommendation/Approval  
Course Length: 2 semesters - 3 periods  
Credits Earned: 6  
Student must meet Ivy Tech placement scores in order to receive college credit at no charge. See Appendix A.

This course prepares students for employment in the hospitality industry. This is a broad based course that introduces students to all segments of hospitality, what it includes, and career opportunities that are available; provides a survey of management functions, highlighting basic theories and facts; and exposes students to current trends and current events within the industry. Three major goals of this course are for students to be able to: Identify current trends in hotel and restaurant management, distinguish the difference between hospitality and tourism, and state differences in front of the house versus the back of the house. Intensive experiences in one or more hospitality industry settings are a required component of the course. Students are monitored in their industry experiences by the teacher. Industry experiences may be either school based or “on the job” in community based hospitality settings, or in a combination of the two. Students completing both Culinary Arts and Hospitality I and Culinary Arts and Hospitality II may earn up to 15 hours of dual credit from Ivy Tech Community College Course.

*Dual Credit, AP and PLTW are considered honors designations at WCS.
EARLY CHILDHOOD EDUCATION I*
(DC12 ECED 100 ECED101 ECED 103 ECED 105 ITCC)
Grade Level: 12
Prerequisite: Child Development and Adv. Child Development
Acceptance to program required. (Acceptance method varies from program to program.)
Course Length: 2 semesters (3 periods)
Credits Earned: 6
Student must meet Ivy Tech placement scores in order to receive college credit at no charge. See Appendix A.

Early Childhood Education is recommended for students interested in preschool, day care and elementary school education (up to 3rd grade). Courses are taken at Ivy Tech and students earn college credits. Course material examines principles of child development and developmentally appropriate environments and activities in various childcare settings, as well as providing an overview of the history and foundations of early childhood education. This program also includes work-based learning and students will spend time each week observing and participating in different childcare settings including day cares and preschools. Transportation must be provided by the student as daily transportation to Ivy Tech and work-based learning sites is required. Students are responsible for the cost of college textbooks, CPR class, a state background check, a physical, a Mantoux test, and a drug screen.

CRIMINAL JUSTICE*
(DC12 CRIM 101 CRIM 105 CRIM 111 CRIM 113 ITCC)
Grade Level: 12
Prerequisite: Acceptance to program required. (Acceptance method varies from program to program.)
Course Length: 2 semesters (3 periods)
Credits Earned: 6
Student must meet Ivy Tech placement scores in order to receive college credit at no charge. See Appendix A.

Course material will include an introduction to criminal justice systems, criminology, law enforcement and criminal investigation. Courses will be taken at Ivy Tech. This program also includes work-based learning and students will spend time observing in different criminal justice settings as well as listening to guest speakers in the criminal justice field. Transportation must be provided by the student as daily transportation to Ivy Tech and the work-based learning sites is required. Students are responsible for the cost of college textbooks, local and state background checks necessary for the work-based learning sites.

EDUCATION PROFESSIONS*
(DC6 SED 1000 SED 2400 GRACE)
Grade Level: 11-12
Recommended: 4 credits in career pathway
Acceptance to program required. (Acceptance method varies from program to program.)
Course Length: 2 semesters (2 periods)
Credits Earned: 4
(plus fast-track acceptance to Grace College Education department)

This class is an introduction to the profession of teaching. Students who are college and career ready will have the opportunity to earn dual credit for two college courses: Teaching School in America and Teaching Exceptional Learners. Learning experiences are structured both in and out of the classroom with the purpose of assisting in making career decisions relative to this profession. The Teaching Exceptional Learners course is designed for prospective teachers, elementary or secondary, working with children at home or in social agencies. The intent is to develop an introduction to children with exceptionalities and practical strategies to assist these children, especially in an educational setting. This course will examine the types of exceptionalities, the laws that apply to them, as well as adaptations and special services that are provided to them in a regular classroom setting and in alternative educational settings. If you are curious about a teaching profession, accept challenge well, possess an excellent attendance record, and have good grades, this is the class to take. Please contact Sarah McCreery at smcreery@warsawschools.org if you have additional questions about this course.

*Dual Credit, AP and PLTW are considered honors designations at WCS.
HEALTH & HUMAN SERVICES I*  
(DC12 HUMS 101 HUMS 102 HUMS 103 HUMS 206 ITCC)
Grade Level: 12  
Prerequisite: Acceptance to program required.  
(Acceptance method varies from program to program.)
Course Length: 2 semesters-3 periods  
Credits Earned: 6  
Student must meet Ivy Tech placement scores in order to receive college credit at no charge. See Appendix A.

Students will explore the history of human services, career opportunities, and the role of the human service worker. Target populations and community agencies designed to meet the needs of various populations will be explored. Opportunities are provided to increase effectiveness in helping people. The helping process in terms of skills, helping stages, and issues involved in a helping relationship will be studied. Basic interviewing skills and assessment strategies will be learned along with developing treatment plans. Group dynamics including group functioning, guidelines on working effectively with a co-leader and practical ways of evaluating the group process will be learned. This program includes work-based learning and students will spend 5-6 hours per week observing the human services field. Students must provide their own transportation on a daily basis. Students are responsible for the cost of college text books. Courses are taken at Ivy Tech.

EMERGENCY MEDICAL TECHNICIAN*  
(DC7.5 PARM 102 ITCC)
Grade Level: 12  
Prerequisite: Acceptance to program required. (Acceptance method varies from program to program.)
Length: 1 semester (2 periods)  
Credits Earned: 2  
Students may earn college credit if they complete the Ivy Tech application and earn a C or Higher.

This course is being offered in partnership with Multi-Township EMS of Warsaw. It is a state-approved curriculum for E.M.T. training. Once completed and reaching the age of 18, the student can take the state test and if successful, become a licensed E.M.T. Students are required to have specific shots which can be obtained from the family doctor or the county health clinic. Course offering is dependent on the number of students and instructor availability.

HEALTH SCIENCE EDUCATION*  
(DC11 HLHS 100 HLHS 101 HLHS 107 ITCC)
Grade Level: 12  
Prerequisite: Acceptance to program required. (Acceptance method varies from program to program.)
Recommended: Biology, Algebra I & II, Geometry  
Length: 2 semesters (4 periods)  
Credits Earned: 6  
Student must meet Ivy Tech placement scores in order to receive college credit at no charge. See Appendix A.

Courses are taken on the Ivy Tech campus. Upon successful completion, students earn college credit. Course material includes an overview of health care professions and standards. Course material also covers medical terminology and provides a basic knowledge of anatomy and physiology, special procedures, laboratory procedures and pharmacology. Emphasis is on forming a foundation for a medical vocabulary including meaning, spelling and pronunciation. Course material will also teach students the skills necessary to become a Certified Nursing Assistant (CNA) and to obtain a CNA license, thus allowing them to work in long-term care facilities. This course prepares students with the knowledge, skills and attitudes essential for providing basic care in extended care facilities, hospitals and home health agencies under the direction of licensed nurses. Students learn hands-on nursing skills in the classroom and laboratory setting as well as attending a clinical site (nursing home).

This program also includes work-based learning and students spend time observing in different health care settings as well as listening to guest speakers from the health care field. Upon earning a CNA license, students will also be able to explore possible job opportunities as a CNA. Transportation to Ivy Tech and work-based learning sites is required daily and must be provided by the student. Students are responsible for the cost of college textbooks, scrubs, CPR class, a background check, a physical, two Mantoux tests, and drug screening.

*Dual Credit, AP and PLTW are considered honors designations at WCS.
## WORK-BASED LEARNING

### CAPSTONE: Internship & Co-op

Application to the Work-Based Learning program is required and must be submitted to your counselor.

**Grade Level:** 12

**Prerequisite:** Complete 4 credits in a Career Pathway + Preparing for College & Careers

*Acceptance to program required. (Acceptance method varies from program to program.)*

**Course Length:** 2 semesters  
**Credits Earned:** 4/6

WORK-BASED LEARNING provides opportunities for students to gain skills and knowledge through on-the-job training and related classroom instruction. This is where you **practice and apply** all of your learning so far!

Students will spend two or four hours a day at their training site and the remaining time will be at school. The training sites are centered on the student’s career pathway.

Students will submit an application if they are interested in the program. Applications can be withdrawn, but may not be accepted late. Students will be notified of program acceptance after the program interview process is completed.

Some additional requirements for Work-Based Learning are listed below. Student must:

- HAVE DRIVER’S LICENSE AND VEHICLE
- Have parental permission
- Be able to state clearly your career goal
- Have met school requirements
- GPA 6.0 or higher
- Good attendance and discipline records

<table>
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<tr>
<th>2-hour WBL (Internship)</th>
<th>3-hour WBL (Internship and Co-op)</th>
<th>4-hour WBL (Co-op)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explore multiple career experiences</td>
<td>3-hour options for both Internship and Co-op programs are available to select students in order to better meet individual needs.</td>
<td>Work at a career in pathway</td>
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<tr>
<td>Build skills and knowledge in areas of interest in real world business and industry settings</td>
<td></td>
<td>Apply concepts and skills previously learned in coursework in their pathway to real world business and industry settings</td>
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<tr>
<td><a href="mailto:kross@warsawschools.org">kross@warsawschools.org</a></td>
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<td><strong>Related training required - period 4</strong></td>
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<td><a href="mailto:aheinsman@warsawschools.org">aheinsman@warsawschools.org</a></td>
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COURSE PLACEMENT SCORES
IVY TECH COMMUNITY COLLEGE

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<th>ACT</th>
<th>*SAT 2015 and earlier</th>
<th>*SAT 2016 and forward</th>
<th>*PSAT 2014 and earlier</th>
<th>*PSAT 2015 and forward</th>
<th>HIGH SCHOOL GPA</th>
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<td>4-8 and Reading Diagnostic</td>
<td>80+ Sentence Skills</td>
<td>17 Writing English</td>
<td>27 Writing and Language Test or 510 ERW</td>
<td>46 Writing Skills</td>
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<td>Diagnostic 2</td>
<td>69-120</td>
<td>76+ Reading</td>
<td>18 Reading</td>
<td>25 Reading Test or 510 ERW</td>
<td>46 Critical Reading</td>
<td>25 Critical Reading</td>
<td>**HS GPA 2.6 within last 4 years</td>
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<td>**HS GPA 2.6 within last 4 years</td>
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<td>92 - 120 or 45-52 ELEM ALG 3</td>
<td>9 Strands 9, 10, &amp; 11</td>
<td>18 Math Math Math Math Math</td>
<td>500 Math Math Math Math</td>
<td>46 Math Math Math Math</td>
<td>24.5 Math Math Math Math</td>
<td>**HS GPA 2.6 within last 4 years</td>
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*SAT, PSAT, ACT, and ACCUPLACER scores are accepted for four years after test was taken.

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