

**2015-2016  
WILMINGTON HIGH SCHOOL GRADUATION REQUIREMENTS**

<b>ENGLISH</b>	8 semesters / 4 yrs (enrollment required each semester)
<b>MATHEMATICS</b>	6 semesters / 3 yrs (enrollment required: 9, 10, 11 grades)
<b>SCIENCE</b>	4 semesters / 2 yrs
<b>SOCIAL SCIENCE</b>	1 semester of World Civilization / .5 yr 2 semesters of U.S. History / 1 yr 1 semester of Civics / .5 yr 1 semester of Consumer Economics / .5 yr
<b>PHYSICAL EDUCATION</b>	7 semesters / 3.5 yrs
<b>HEALTH</b>	1 semester / .5 yr
<b>DRIVER EDUCATION</b>	1 semester / .5 yr
<b>COMPUTERS</b>	1 semester / .5 yr
<b>FINE ARTS</b>	4 semesters / 2 yrs (Music, Foreign Language, Art and Vocational courses)

**28 CREDITS AND COMPLETION OF STATE TESTING**

**Weighted Courses**

Honors Geometry	Honors Earth and Space Science
Honors Pre Calculus	Honors Chemistry I
Honors Calculus	Honors AP Chemistry
Honors AP Calculus	Honors Anatomy & Physiology
Honors English I, II, III	Honors AP Biology
Honors AP English IV L/C	Honors Physics
Honors JJC English 101/102	Honors AP U.S. History
Honors Spanish III	Honors JJC History 104
Honors AP Spanish	Honors JJC Political Science 101
Honors Biology	

**Recommended College Entry Coursework**

<b>ENGLISH</b>	8 semesters / 4 yrs
<b>MATH</b>	6-8 semesters / 3-4 yrs
<b>SCIENCE</b>	6-8 semesters / 3-4 yrs
<b>SOCIAL SCIENCE</b>	6 semesters / 3 yrs
<b>FOREIGN LANGUAGE OR FINE ARTS</b>	4 semesters / 2 yrs

Most colleges will accept 4 semesters of Fine Arts for college entry; however, please note that at least one school (University of Illinois) requires 4 semesters of one foreign language for acceptance.

# WILMINGTON HIGH SCHOOL FOUR-YEAR EDUCATIONAL PLAN

Student Name \_\_\_\_\_

Career Goal \_\_\_\_\_

This page is provided as a guide for your educational planning. Please fill in your four-year plan on the lines for each year.

## FRESHMAN

English (1) \_\_\_\_\_  
Math (1) \_\_\_\_\_  
Science (1) \_\_\_\_\_  
World Civilization I or II (.5) \_\_\_\_\_  
Micro Office Proj (.5) \_\_\_\_\_  
Physical Education (1) \_\_\_\_\_  
Elective \_\_\_\_\_  
Elective \_\_\_\_\_  
Elective \_\_\_\_\_  
Elective \_\_\_\_\_  
Elective \_\_\_\_\_  
Elective \_\_\_\_\_  
Total Credits (8): \_\_\_\_\_

## SOPHOMORE

English (1) \_\_\_\_\_  
Math (1) \_\_\_\_\_  
Science (1) \_\_\_\_\_  
Driver Ed (.5) \_\_\_\_\_  
Health (.5) \_\_\_\_\_  
Physical Education (1) \_\_\_\_\_  
Elective \_\_\_\_\_  
Elective \_\_\_\_\_  
Elective \_\_\_\_\_  
Elective \_\_\_\_\_  
Elective \_\_\_\_\_  
Elective \_\_\_\_\_  
Total Credits (8): \_\_\_\_\_

## JUNIOR

English (1) \_\_\_\_\_  
Math (1) \_\_\_\_\_  
Science (1) \_\_\_\_\_  
U.S. History (1) \_\_\_\_\_  
Physical Education (1) \_\_\_\_\_  
Elective \_\_\_\_\_  
Elective \_\_\_\_\_  
Elective \_\_\_\_\_  
Elective \_\_\_\_\_  
Elective \_\_\_\_\_  
Elective \_\_\_\_\_  
Total Credits (8): \_\_\_\_\_

## SENIOR

English (1) \_\_\_\_\_  
Math (1) \_\_\_\_\_  
Science (1) \_\_\_\_\_  
Civics (.5) \_\_\_\_\_  
Consumer Economics (.5) \_\_\_\_\_  
Physical Education (.5) \_\_\_\_\_  
Elective \_\_\_\_\_  
Elective \_\_\_\_\_  
Elective \_\_\_\_\_  
Elective \_\_\_\_\_  
Elective \_\_\_\_\_  
Elective \_\_\_\_\_  
Total Credits (8): \_\_\_\_\_

**Careercruising.com** is a website that can help you determine your career goals, as well as what type of education/training is necessary after high school to meet them. Log-in with username: wilmington, Password: Careers

**Electives** should be chosen based on your career goals. Taking a variety of electives can help determine your talents, interests, and decisions regarding your future.

**College-bound students** should plan to take 4 years of English, 3-4 years of math and science, 3 years of social studies, and 2 years of foreign language to be prepared to apply to the college of their choice after high school.

**Guidance Counselors** are available to help students make decisions regarding high school course selection, the college application process and future career options. Contact the Guidance Office at 926-1738.

## MATHEMATICS

**NOTE: THERE ARE NOT ENOUGH CLASSROOM CALCULATORS FOR EACH STUDENT.**

### ALGEBRA I

Prerequisite: None  
Class Level: 9  
Credit: 2 (only one credit will apply toward the math credits needed for graduation)

The goals of this course are to expose the student to algebraic structure and to train the student in computational and manipulative skills. There will be a strong emphasis on: solving linear and quadratic equations, graphing functions, factoring, applying algebraic skills and connecting skills to real-world applications. This course is double-blocked, which means it meets on A and B days.

### ALGEBRA II

Prerequisite: Successful completion of Algebra I and teacher recommendation  
Class Level: 10, 11  
Credit: 2 (only one credit will apply toward the math credits needed for graduation)

This course is designed to strengthen basic terminology, notation, concepts, skills, and theory of elementary algebra through the critical examination of the Real Number System. Secondly, it explores the concepts and applications of functions including: linear, quadratic, exponential, root, trigonometric, and logarithmic. Finally, it expands on the concepts: permutations, combinations, probabilities, and geometric applications of algebra.

### ALGEBRA III

Prerequisite: Senior who passes Algebra I, Algebra II, and Geometry and teacher recommendation  
Class Level: 12  
Credit: 1

This course expands on the concepts of algebra and geometry. Topics include functions, solving equations and systems of equations, simplifying expressions, inequalities, radicals, logarithms, circles and other conic sections, and trigonometry. This class will also prepare students for college placement exams similar to JJC compass test.

### GEOMETRY

Prerequisite: Successful completion of Algebra I and teacher recommendation; sophomores must have a grade of at least an "A" each semester in Algebra I to enroll in Algebra II and Geometry  
Class Level: 10, 11  
Credit: 1

This course provides the student with the background necessary for mathematical success in technical and industrial careers. Geometry involves the study of the properties of plane and solid geometric figures, relationships between parts of geometric figures, areas and volumes of geometric figures. Problems and projects with real-life applications will be explored. This course is helpful for those considering further study in industrial and technical careers. It is also necessary for those pursuing college studies. It is recommended that students have a TI-30 x IIs or comparable calculator.

### GEOMETRY IN CONSTRUCTION

Pre-requisite: Successful completion of Algebra I and teacher recommendation; sophomores must have a grade of at least an "A" each semester in Algebra I to enroll in Algebra II and Geometry  
Class Level: 10,11  
Credit: 2 (one math credit and one elective credit)

Geometry in Construction is an interdisciplinary course that integrates Geometry and Construction topics through the building of a significant construction project. The purpose of this course is to provide students with a better understanding of both the Geometry and the Construction content through the combination of the academic and work-world contexts. The Geometry content matches that of the other Geometry courses taught in the Math Department, and prepares students for the subsequent Algebra II courses. Students will be exposed to and gain hands-on experience in the following areas of Construction: safety, framing, HVAC, plumbing, roofing, windows, exterior doors, and siding.

Additional emphasis is given to teamwork, problem-solving, and the promotion of STEM education. This is a double-blocked course, which means it meets on A and B days. Students will earn credit for both Geometry and for Construction.

## HONORS GEOMETRY

Prerequisite: Successful completion of Algebra I with an "A" average and teacher recommendation; freshmen must have a grade of at least "A" each semester in Algebra I to enroll in Algebra II and Geometry concurrently, as a sophomore

Class Level: 10, 11

Credit: 1

This **weighted** course will provide an integrated study of the elements of plane, solid, and coordinate geometry. Deductive and inductive reasoning, logic, techniques of proof, trigonometry, and algebra related problems are studied. Problems and projects will include real-life applications. This course is necessary for those pursuing college studies and/or a career in a math-oriented field. It is recommended that students have a TI-30xIIs or comparable calculator.

## PRECALCULUS

Prerequisite: Successful completion of Algebra II & Geometry and teacher recommendation

Class Level: 11, 12

Credit: 1

This course is designed to prepare students for calculus and college mathematics or science courses. The class will cover: polynomial functions, exponential and logarithmic functions, circular and triangular Trigonometry, series, and vectors. The graphing calculator will play an important role in exploring and expanding mathematical concepts.

## HONORS PRECALCULUS

Prerequisite: Successful completion of Algebra II & Geometry with a "B" average or completion of Honors Algebra II with a "C" average and Honors Geometry with a "C" average and teacher recommendation

Class Level: 11, 12

Credit: 1

This **weighted** course is designed to prepare students for calculus and college mathematics or science courses. The class will cover: polynomial functions, exponential and logarithmic functions, circular and triangular Trigonometry, series, and vectors. The graphing calculator will play an important role in exploring and expanding mathematical concepts.

## HONORS CALCULUS

Prerequisite: Successful completion of Honors Precalculus and teacher recommendation

Class Level: 12

Credit: 1

This **weighted** course is designed to prepare students for future college calculus courses. It covers topics such as: algebraic and transcendental functions, limits, the derivative and its applications, integration and applications of the definite integral, and the fundamental theorem of calculus.

## HONORS AP CALCULUS

Prerequisite: Successful completion of Honors Precalculus and teacher recommendation

Class Level: 12

Credit: 1

This **weighted** course is structured to prepare students for the Advanced Placement Calculus AB Examination. Topics covered include algebraic and transcendental functions, the derivative, and its applications, chain rule, integration, the Fundamental Theorem of Calculus, the Mean Value Theorem, applications of the definite integral, and the differential equations. Students will be required to do an assignment during the summer before taking the class. This is a WEIGHTED grade course. A TI-83 or equivalent calculator is required.

## STATISTICS AND PROBABILITY

Prerequisite: Successful completion of Algebra II and Geometry and teacher recommendation; Juniors must be concurrently enrolled in Precalculus.  
Class Level: 11, 12  
Credit: 1

Students will be introduced to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will also be exposed to four broad conceptual themes: 1. Exploring Data: Observing patterns and departures from patterns, 2. Planning a Study: Deciding what and how to measure, 3. Anticipating Patterns: Producing models using probability and simulation, 4. Statistical Inference: Confirming models.

## ALGEBRA/GEOMETRY APPLICATIONS

Prerequisite: Successful completion of Algebra I and teacher recommendation  
Class Level: 12  
Credit: 1

This is a project oriented course which will use basic algebraic skills in real-life applications. Students will develop higher-level thinking skills through sequential problem solving. Projects will incorporate a variety of technology and will require students to work independently and in cooperative groups. It also incorporates applications from various other areas including: health, science, drafting, family and consumer sciences, physical education, and building trades.

## LANGUAGE ARTS

### HONORS ENGLISH I

Prerequisite: Minimum of an "A" average in 8th grade Language Arts and 8th grade teacher recommendation  
Class Level: 9  
Credit: 1

This **weighted** course explores literary genres including short stories, novels, poetry, drama, and nonfiction. Students will briefly review active reading strategies, but this course is designed to employ these strategies immediately. Students will continue to review grammar and vocabulary on a daily basis, but an emphasis will be placed on advanced concepts. Students will refine their critical thinking and formal writing skills through a study of texts from the English I curriculum, as well as supplementary novels and plays. In addition to improving reading, speaking, listening, and research skills, this course is writing intensive, and students will be required to write on a bi-weekly basis. There is also a Reading Counts requirement of 25 points per quarter.

### ENGLISH I

Prerequisite: None  
Class Level: 9  
Credit: 1

This course explores literary genres including: short stories, novels, poetry, drama and nonfiction. Through these genres, students will employ active reading strategies to help construct meaning from literary works. Students will practice grammar and vocabulary on a daily basis. An emphasis will be placed on critical thinking skills and formal writing. Daily practice will also be devoted to improving: reading, writing, speaking, listening, library and research skills that will facilitate future coursework. There is also a Reading Counts requirement of 15 points per quarter.

### HONORS ENGLISH II

Prerequisite: At least a "B" average in Honors English I with teacher recommendation or "A" average in English I with teacher recommendation  
Class Level: 10  
Credit: 1

This **weighted** course offers qualified students the opportunity to improve reading, writing, speaking, researching, and listening skills. Honors English II contains all independent reading and is very writing intensive. The reading areas will include: short stories, science-fiction, world literature, poetry, nonfiction, drama, and a Shakespearean play. Included in reading will be the analysis of literary devices, reading strategies, the in-depth interpretation of texts, and relation to modern society today. The writing process is strongly emphasized; types of writing will include: persuasive, narrative,

expository, and creative writing. Students must complete a satisfactory research paper in order to pass this course. Grammar and proper writing technique are a strong focus throughout the semester. This course requires 25 Reading Counts points per quarter.

## ENGLISH II

Prerequisite: English I  
Class Level: 10  
Credit: 1

This course will help students improve: reading, writing, speaking, researching, and listening skills. English II requires a variety of independent reading and writing assignments. The reading areas will include: short stories, science-fiction, world literature, nonfiction, poetry, and drama. Included in reading will be the analysis of literary devices, reading strategies, and the interpretation of texts. The writing process is strongly emphasized; types of writing will include: persuasive, narrative, creative, and expository. Students must complete a satisfactory research paper in order to pass this course. Grammar and proper writing technique are a strong focus throughout the semester. This course requires 15 Reading Counts points per quarter.

## HONORS ENGLISH III

Prerequisite: "B" average in Honors English II or "A" average in English II, with teacher recommendation  
Class Level: 11  
Credit: 1

This **weighted** course focuses heavily on reading, writing, and thinking critically. Students will expand their knowledge of American Literature from the colonial through contemporary periods. Students will read a variety of materials: plays, poetry, short stories, novels, essays, sermons, etc., each representing the values and culture of various ethnic groups in America. This course will emphasize the importance of comprehension and application, as well as analyzing and thinking critically. Students will be asked to create compositions, including a literary analysis research paper. Students will also be asked to write essays in preparation for the ACT test and the Prairie State Achievement Exam. The minimum requirement for essay length will be two to four pages. This course requires students to complete 30 Reading Counts points each quarter.

## ENGLISH III

Prerequisite: English II  
Class Level: 11  
Credit: 1

This course expands students' understanding of American Literature from the colonial through contemporary periods. Students will read a variety of materials: plays, poetry, short stories, novels, essays, sermons, etc, each representing the values and culture of various ethnic groups in America. They will respond to that literature through written and oral expression with a focus on personal connections. Students will further develop their analytical skills through the writing of persuasive and expository essays and will also include essays in preparation for the ACT testing and Prairie State Achievement Exam. The length requirement of each paper will be two to four pages. Students will also have a concentration in: vocabulary, grammar, reading skills, comprehension, application, and writing techniques. Some of the major works will include: *The Crucible*, *The Adventures of Huckleberry Finn*, *The Great Gatsby*, *12 Angry Men*, and *The Glass Menagerie*. This course requires the students to complete 20 Reading Counts points each quarter.

## HONORS AP ENGLISH IV LIT & COMP

Prerequisite: "A" average in English III or "B" average in Honors English III with teacher recommendation  
Class Level: 12  
Credit: 1

The **weighted** AP English Literature and Composition course is designed to engage students in the careful reading and critical written analysis of works of literary merit. This intensive course will incorporate a close reading and examination of selected texts; students can deepen their understanding of the ways through which writers and poets use language to provide meaning in their texts. This course will include studies of representative works from various genres and periods, concentrating on works of recognized literary merit. The close reading aspect will involve the experience of literature, the interpretation of literature, and the evolution of literature. Before the course begins in the fall, completion of a summer

reading and note card assignment is a requirement. All students in this class will take the AP Exam in the spring, for the college accepted test a fee is required. 30 Reading Counts points are required each quarter.

### **HONORS JJC ENGLISH 101 - RHETORIC**

Prerequisite: Must qualify with ACT or Compass Test score  
Class Level: 12  
Credit: .5 at WHS, 3 at JJC

This **weighted** course is designed to teach writing skills necessary for success in college. It is required for students intending to continue in a baccalaureate program. Special emphasis is placed upon summary writing, exposition, and argumentation. This dual credit course is an option for any senior wishing to obtain credit from both WHS and Joliet Junior College.

### **HONORS JJC ENGLISH ENGLISH 102 - RHETORIC**

Prerequisite: English 101  
Class Level: 12  
Credit: .5 at WHS, 3 at JJC

This **weighted** course provides continued training and practice in composition and research processes. Students will analyze a variety of texts and write several essays, including a 2,500+ word research paper. This dual credit course is an option for any senior wishing to obtain credit from both WHS and Joliet Junior College.

### **ENGLISH IV**

Prerequisite: English III  
Class Level: 12  
Credit: 1

English IV provides a survey of representative literature by a variety of authors, including foreign and American authors. This course explores the literature from Britain's Anglo-Saxon age to America's Post-Modernist/Contemporary literature period, including other world literature from time periods in-between. An emphasis on preparation for college-bound students and those entering the workforce will be balanced through guest speakers, teacher led lectures and an in-depth literary survey. 20 Reading Counts points are required each quarter.

### **ENGLISH IV - CAREER PREP**

Prerequisite: English III  
Class Level: 12  
Credit: .5

This course is divided into many components: success, literature, business writing, and career exploration. Students who take this course are planning to enter the workforce or a training program. This course will emphasize: reading skills, vocabulary, analytical thinking and writing, and discovery of student interests.

### **READING SEMINAR**

Prerequisite: None  
Class Level: 9  
Credit: .5

This freshman course will provide students with intensive and skills-based instruction in the art and science of reading. Articles will involve social issues and current events. Discussions will require critical thought about our society. The main purpose of this semester-long course will be twofold: to provide SKILLS instruction and practice in the various types of reading that appear on high- stakes, standardized tests; and to encourage and develop enthusiasm for reading, including the reading of: novels, newspapers, magazines, internet sources, and a variety of text styles. Strongly research- based, this course will focus on the five key skills that students must master to become effective readers in our information age: (1) vocabulary development, (2) fluency practice, (3) comprehension, (4) purpose in reading, and (5) lifetime reading applications. Students in Reading Seminar will increase knowledge of their own learning styles, studying techniques, and self-awareness as a reader and learner. Students will be introduced to Keytrain and ACT Prep to prepare them for post high school employment and educational opportunities.

## READING STRATEGIES

Prerequisite: None  
Class Level: 9, 10, 11  
Credit: 1

The Reading Strategies course will be offered during second semester. The Reading Strategies course focuses on deeper understanding of nonfiction and the types of technical reading that commonly appears on standardized tests. The course will provide instruction in analyzing various types of non-fiction text, including: newspaper and magazine articles, speeches, essays, memoirs and biographies, and technical/vocational manuals. Reading and analyzing graphic data will also be a focus for this course. The Keytrain program (in a computer lab setting) and specific preparation for the reading PSAE/ACT test will also be emphasized in the class. Vocabulary, WorkKeys and PSAE practice activities will be a major emphasis in the course, along with a specific study of a variety of nonfiction reading sources.

## SPEECH

Prerequisite: English I  
Class Level: 10, 11, 12  
Credit: .5

This class introduces students to principles of interpersonal communication and public speaking techniques. In addition, skills in developing a dynamic verbal profile and confidence in oral presentations will be enhanced. Students will be expected to participate in class discussions and to deliver a variety of speeches: commemorative, informative, demonstrative, impromptu, and persuasive.

## MYTHOLOGY

Prerequisite: "C" average in English II or English III, or concurrent enrollment in Honors English II with teacher recommendation  
Class Level: 10, 11, 12  
Credit: .5

This course is a survey of classical mythology as employed by the Greeks, Romans, and Norsemen, in their literature, art, and civilization. Topics covered include: the creation and generations of the gods, goddesses, monsters, and mortals. Major and minor heroic cycles of the Greek legend, including the Trojan War and its aftermath, and the legends and folk tales of Roman and Norse Mythology are also covered. This course will introduce students to the many characters and tales of classic mythology. Special emphasis will be placed on the connections between ancient lore and the world of today.

## POPULAR LITERATURE

Prerequisite: Pass both semesters of English I  
Level: 10,11,12  
Credit: .5

Designed for college and non-college bound students, this course will focus on a variety of works of literature, while emphasizing the differences of popular and classical literatures. The origin and dynamic characteristics of genres (fiction, non-fiction, graphic novels, memoirs, etc.) in today's society will be analyzed through the reading of class books and literature circles. Students will be required to complete written, oral and group projects in addition to the readings; class discussion will constitute a major portion of the class. *This class is reading intensive.* We will cover anywhere from 5-7 novels a semester, and most of the reading will be done outside of class. **Please note: Students in this class will be responsible for providing their own books, either through library rental or individual purchase.**

## FOREIGN LANGUAGE

### SPANISH I

Prerequisite: "B" average in 8<sup>th</sup> Grade Language Arts and the teacher's recommendation, or "B" average in English I  
Class Level: 9, 10, 11  
Credit: 1

"Realidades 1" textbook is used in a standards-based Spanish curriculum that balances grammar and communication. The program offers technology designed to integrate language and culture to teach and motivate students. Pair and



group work are used to provide communicative language practice. Writing, audio CD and DVD activities are used to exchange information and to interpret meaning through thematic chapters and projects that emphasize real-life situations and use of the language. Culture units emphasize appreciation of the Spanish-speaking world. Computer activities include an online interactive textbook review for tests, providing a range of activities and tasks to reinforce vocabulary and grammar skills as well as web-based lesson plans linked to the authentic Spanish-speaking world.

## SPANISH II

Prerequisite: "C" average in Spanish I and teacher recommendation  
Class Level: 10, 11, 12  
Credit: 1

"Realidades 2" continues the multi-step process begun in Spanish 1 with a textbook that is used in a standards-based Spanish curriculum that balances grammar and communication. The program offers technology designed to integrate language and culture to teach and motivate students. Pair and group work are used to provide communicative language practice. Writing, audio CD and DVD activities are used to exchange information and to interpret meaning through thematic chapters and projects that emphasize real-life situations and use of the language. Culture units emphasize appreciation of the Spanish-speaking world. Computer activities include an online interactive textbook review for tests, providing a range of activities and tasks to reinforce vocabulary and grammar skills as well as web-based lesson plans linked to the authentic Spanish-speaking world.

## HONORS SPANISH III

Prerequisite: "B" average or better in Spanish II and teacher recommendation  
Class Level: 11, 12  
Credit: 1

Honors Spanish III is a **weighted** class for highly motivated students. It is proficiency oriented with more complex structures and emphasis of communication skills. It moves at a faster pace than Spanish I or II. Students are expected to be able to handle working more independently and being self-starters. The "Realidades 3" textbook is used in a standards-based Spanish curriculum that balances grammar and communication. The program offers technology designed to integrate language and culture to teach and motivate all students. Pair and group work are used to provide communicative language practice. Writing, audio CD and DVD activities are used to exchange information and to interpret meaning through thematic chapters and projects that emphasize real-life situations and use of the language. Culture units emphasize appreciation of the Spanish-speaking world. Computer activities include an online interactive textbook review for tests, providing a range of activities and tasks to reinforce vocabulary and grammar skills as well as web-based lesson plans linked to the authentic Spanish-speaking world.

## HONORS AP SPANISH IV

Prerequisite: "B" average or better in Spanish III and teacher recommendation  
Class Level: 12  
Credit: 1

This **weighted** course is design for highly motivated students who have in mind continuing their Spanish language experience at the college level. This course will be conducted entirely in Spanish to facilitate and meliorate the students' Spanish language comprehension. Students will be exposed to; advanced conversational Spanish and grammar that will prepare them to succeed on the Spanish language Advanced Placement Exam. Students will read, analyze, discuss, and write on traditional Iberian literature masterpieces such as Don Quijote and contemporary Spanish and Latin American literature.

## SCIENCE

### BIOLOGY I

Prerequisite: Teacher Recommendation  
Class Level: 9, 10  
Credit: 1

Semester I: Topics to be covered include: Scientific processes, scientific method of classification, cellular biology, Kingdom's of Life, Animal Kingdom's from the simplest (invertebrates) to the more complex (vertebrates). Lab experiences will include microscope work as well as various lab activities and projects.

Semester II: Topics to be covered include: A continuation of vertebrates, Chemistry of Life, Cell Structure, Cells and their Environment, Photosynthesis & Cellular Respiration, DNA, and how proteins are made. Lab experiences will include microscope work, dissections, and various projects.

## **BIOLOGY II**

Prerequisite: Biology I  
Class Level: 10, 11, 12  
Credit: 1

Semester I: Topics will include: complex vertebrates, microbiology, evolution, the origin of life, and gene technology. Projects will require students to make creative applications of knowledge gained through the class. Activities will include a mammal dissection, microbiology labs, and DNA fingerprinting via gel electrophoresis.

Semester II: Topics will include: chromosomes, cell reproduction (mitosis and meiosis), heredity, population genetics, ecosystems and biological communities, and environmental problems. Lab activities will require that the student is proficient in the use of microscopes and will focus on genetics. Projects to address environmental problems will allow students out-of-the classroom experiences as they explore these issues.

## **HONORS BIOLOGY**

Prerequisite: Teacher Recommendation  
Class Level: 9  
Credit: 1

Material from both Biology I and Biology II will be covered in this honors course. Honors Biology may not be taken if the student has already completed Biology I. This **weighted** course is intended for students who desire to pursue a career in science. In this in-depth, fast-paced course, students will explore the topics of: cell biology, genetics, evolution, and zoology through laboratories, projects, and dissections not offered in other biology classes. A student should expect homework each class period. Also, Biology I and Biology II may not be taken for credit after completing Honors Biology.

## **INTEGRATED LAB SCIENCE**

Prerequisite: Teacher Recommendation  
Class Level: 10  
Credit: 1

Integrated Lab Science provides a foundation in the three scientific fields of Chemistry, Physics, and Earth Science. This course will focus on a broad spectrum of matter, energy, and Earth's structure. A variety of applications will be covered in this course including: mastering the metric system, recognizing chemical and physical changes, using formulas to solve matter and energy, and applying concepts in a laboratory or activity. Other topics in the course include: understanding the periodic table, energy, Newton's three laws of physics, and earth science. This course covers all components in the Illinois Learning Standards and prepares the students for the ACT.

## **HONORS EARTH AND SPACE SCIENCE**

Prerequisite: Successful completion of Integrated Science or Concurrent Enrollment in Honors Chemistry I with teacher recommendation  
Class Level: 10, 11, 12  
Credit: 1

In this **weighted** course, students will explore the major underlying principles of the earth sciences and cosmology including: geology, oceanography, meteorology and astronomy. The course will focus on geological concepts such as identifying and classifying rocks. Students will perform and create laboratory activities ranging from water filtration to alternative energy devices. This course is designed to develop awareness and appreciation for corresponding geosystems and their important interrelationships, as well as an understanding of the scientific approach to problem solving. Emphasis will be placed on interactions between earthly systems in order to better understand the earth as a single, multidimensional network operating in unison with the laws of physics, chemistry, and biochemistry. Special topics will include: the structure and composition of the earth, plate tectonics, weathering and mechanical erosion, the earth's weather systems, the rock and hydrologic cycle, the solar system, the sun, galaxies, and theories of the universe.

## HONORS CHEMISTRY I

Prerequisite: Concurrent enrollment in Algebra II or an "B" in Algebra I and successful completion of Honors Biology I or Integrated Science, and teacher recommendation  
Class Level: 10, 11, 12  
Credit: 1

This **weighted** course is designed for those students who are college bound or planning on further study of science. It is a prerequisite for AP Biology, Chemistry II, and Physics. Math and calculator skills are utilized throughout the year. While laboratory participation is important, it is not the major activity of the class. Topics of study will include: significant figures, matter and energy, moles, periodic table, bonding, organic chemistry and stoichiometry. This is a rigorous course that is designed to teach students to have the "habits of mind" necessary for advanced studies. Advanced Algebra skills are necessary to be successful in chemistry.

## HONORS AP CHEMISTRY

Prerequisite: Completion of Honors Chemistry I with at least a "B" average for each semester, completion of (or concurrent enrollment in) Honors Physics, and teacher recommendation.  
Class Level: 11, 12  
Credit: 1

This **weighted** and academically-rigorous course will emphasize inquiry-based learning, conceptual understanding, and the development of advanced reasoning skills necessary for college and professional chemistry. The course is a combination of lecture, lab, and homework that is intended for highly-motivated students interested in pursuing a career in science. Honors AP Chemistry builds upon fundamental chemical and physical concepts such as a) atoms, molecules, and moles, b) chemical systems, c) the conservation of energy and mass, d) ionic and covalent bonding, e) molecular geometry and electron configurations, f) chemical reactions, equations, and stoichiometry, g) the periodic table and periodic trends, and h) the states of matter and thermodynamics, among others. All students will take the AP exam in the spring, and an exam fee is required. Students will be provided a summer study packet to help prepare them for the concepts and material presented throughout the course.

## HONORS ANATOMY AND PHYSIOLOGY

Prerequisite: Completion of Biology II or Honors Biology with a "B" or better average and teacher recommendation.  
Class Level: 11, 12  
Credit: 1

This **weighted** course is intended for college-bound students with medical or kinesiology interest. The topics will describe the human body systems. Lab work will include: microscopy, dissection of a rabbit, a sheep heart, sheep brain, and kidney. Independent research topics will be assigned.

## HONORS AP BIOLOGY

Prerequisite: Honors Anatomy and Physiology must be taken prior to or concurrently, an "A" average in Biology II or "B" average in Honors Biology, and "B" average in Honors Chemistry I, and teacher recommendation.  
Class Level: 11, 12  
Credit: 1

This **weighted** class is intended for students willing to commit a significant amount of time to a rigorous course in Biology designed to prepare them to take a placement exam given in May. The course is a combination of lecture, lab, and homework with emphasis on investigation, inquiry and experimental design. Topics include: ecology/basic biochemistry, cells, energy transformation, genetics and DNA technology, evolution, plant sciences, and human biology. A summer assignment is given. All students in this class will take the AP Exam in the spring and a fee is required.

## HONORS PHYSICS

Prerequisite: Successful completion of Honors Chemistry I and Honors Precalculus must be taken prior to or concurrently, and teacher recommendation.  
Class Level: 11, 12  
Credit: 1

This **weighted** course explores energy transformation within mechanical, fluid, thermal, and electrical systems. Topics of studies include classical physics (kinematics, momentum, work-energy, gravity, electromagnetism, thermodynamics, light, optics, and states of matter) and modern physics concepts. This course is math and laboratory extensive, and ties concepts to real world models. Assessments will include engineering projects, tests, quizzes, homework, laboratory reports, and guided practice.

## **SOCIAL SCIENCES**

### **WORLD CIVILIZATIONS I**

Prerequisite: None  
Class Level: 9, 10  
Credit: .5

World Civilizations I introduces students to the interaction between peoples and their lands. In addition to learning the principles and terms of geography, students will learn world cultures, religions, histories and economies with emphasis on World Cultures. The course will explore the dynamics of international relations and the burgeoning global economy. Students will explore issues of race, ethnicity and technology as well as examining environmental issues within the global context. The physical geography of the world is the starting point and from there this class will develop the ideas of social, economic and political geography. \*Emphasis on African Area, Asian Area, and Latin America.

### **WORLD CIVILIZATIONS II**

Prerequisite: None  
Class Level: 9, 10  
Credit: .5

World Civilizations II introduces students to the interaction between peoples and their lands. In addition to learning the principles and terms of geography, students will learn world cultures, religions, histories and economies with emphasis on World Cultures. The course will explore the dynamics of international relations and the burgeoning global economy. Students will explore issues of race, ethnicity and technology as well as examining environmental issues within the global context. The physical geography of the world is the starting point and from there this class will develop the ideas of social, economic and political geography. \* Emphasis on Middle Eastern Area, Modern Europe, and Canada.

### **INTRODUCTION TO U.S. HISTORY**

Prerequisite: None  
Class Level: 9, 10  
Credit: .5

Introduction to U.S. History covers the time period of 1400-1865 or the era of European exploration through the U.S. Civil War. Major areas of study include: English colonization, the Revolutionary War, the birth of the United States, expansion and westward migration, Industrialization and the Progressive Era, the slave issue and the Civil War. While examining these events, the class will seek to develop the ideas of: cause and effect, evaluating fact vs. opinion, using maps, reading charts and graphs, interpreting political cartoons and doing basic historical research. Additionally, the class will seek to make connections from history to modern political situations.

### **CURRENT EVENTS**

Prerequisite: None  
Class Level: 9, 10  
Credit: .5

Current Events is an in-depth study of the events that are taking place throughout the world. Students will study global issues, along with local, state, and U.S. events. Students will learn to make informed judgments about international, national, and local news topics. Students will use skills such as decision-making, cooperation, discussion, and speech to debate topics and form opinions on events that are presented. The ultimate goal is to raise student awareness of the global world.

## **AMERICAN CONFLICTS – HISTORY VS. HOLLYWOOD**

Prerequisite: None  
Class Level: 9, 10  
Credit: .5

Students will learn to interpret genre films (and some documentaries) that illustrate on developments from 1776 to 2007. There have been hundreds of instances of the deployment of United States military forces abroad and domestically. The list through present is based on United States Congress House Committee on International Relations is shown below. The dates show the years in which U.S. military units participated.

* Revolutionary War - 1776-1783	* World War I – 1917- 1920
* Mexican-American Wars 1830-1848	* World War II – 1941-1945
* Civil War – 1861 – 1865	* Cold War 1947-1990
* Korean War 1950 – 1953	* Persian Gulf War – 1991
* Vietnam Conflict – 1962 – 1973	* Global War on Terrorism – 2001 - Present

## **AMERICAN CULTURE – HISTORY VS. HOLLYWOOD**

Prerequisite: None  
Class Level: 10, 11, 12  
Credit: .5

Students in this course will learn to interpret genre films (and some documentaries) illustrate that as American Culture. The United States has traditionally been known as a melting pot, but recent academics tend towards cultural diversity, pluralism and the image of a salad bowl, rather than a melting pot. There are many integrated but unique subcultures within the United States and events that influenced their development. The cultural affiliations an individual in the United States may have, commonly depend on social class and a multitude of demographic characteristics.

## **U. S. HISTORY**

Prerequisite: None  
Class Level: 11  
Credit: 1

This required United States history course will provide students with an exposure to America's growth, expansion, and evolution into a world power, so that they will develop an understanding and knowledge of the world. Because of American heritage and convictions, Americans champion the cause of freedom and seek to promote it. To comprehend and meet the challenges facing America today, students will examine these convictions. During the first semester, U.S. History students will study the growth of our nation following the Civil War through its struggle as a world power in World War I and the Great Depression. In the second semester, this course will provide students with an understanding of history and its impact upon his/her life and the environment by analyzing the historical events after World War II. Students investigate recent events and relate them to the past history of the nation while receiving a broad view of the people and events that contributed to the foundation of this country and the operation of our system of government. This course will provide an account of the American past with the focus on history as a process. It will encourage students to think historically and to develop into citizens who value and understand the past in order to appreciate the future with concentrations from World War II through the present.

## **HONORS ADVANCED PLACEMENT UNITED STATES HISTORY**

Prerequisite: "B" average in English and recommendation of English or social studies teacher  
Class Level: 11  
Credit: 1

This **weighted** class provides an opportunity for high school students to pursue and receive credit for college-level U.S. History. Students will learn both the content and skills necessary for successful completion of the AP Test to be given in May. This test is optional and requires a fee. The course is designed for highly motivated, academically-advanced students who have good reading, writing, and study skills. Students will do an extensive amount of reading and reflection, historical essay writing, note taking, and analysis of historical documents. Students will use a college text and will be

expected to complete a summer assignment prior to taking the course as well as taking a comprehensive exam at the end of the course.

### **HONORS JJC HISTORY 103 – HISTORY OF THE UNITED STATES TO 1865**

Prerequisite: English II with a “B” average or Honors English II with a “C” average and teacher recommendation  
Class Level: 11, 12  
Credit: .5 at WHS, 3 at JJC

This **weighted** course is a survey of the political, economic, social, religious, and cultural developments of the United States from 1492 to 1865. Emphasis is on such topics as colonial society, the American Revolution, the young republic, nationalism, expansionism, slavery, sectionalism, and the Civil War. This dual credit course is an option for any junior or senior wishing to obtain credit from both WHS and Joliet Junior College.

### **HONORS JJC HISTORY 104 – HISTORY OF THE UNITED STATES**

Prerequisite: English II with a “B” average or Honors English II with a “C” average and teacher recommendation  
Class Level: 11, 12  
Credit: .5 at WHS, 3 at JJC

This **weighted** course is a survey of the political, economic, social, religious, and cultural developments of the United States from 1865 to the present. Emphasis is on such topics as postwar reconstruction, westward movement, industrialization, urbanization, imperialism, world conflict, race relations, and modern social and political reform. This dual credit course is an option for any junior or senior wishing to obtain credit from both WHS and Joliet Junior College.

### **CIVICS**

Prerequisite: U. S. History  
Class Level: 12  
Credit: .5

The required Civics course is designed to instruct students about our country and the rights and responsibilities that accompany citizenship, which is an important part of being a good citizen. By studying civics, the students will learn how our government, economic system and political system are supposed to operate. Students will understand why the founding fathers wanted the colonies to break away from the British crown, and why they set up the United States government as a republic instead of as a democracy. Basically, students will examine: the principles and obligations of citizenship, civil rights and civil liberties, the structure and function of federal, state, and local governments, and the electoral process as they prepare for the state-mandated tests.

### **HONORS JJC POLITICAL SCIENCE 101 – AMERICAN NATIONAL GOVERNMENT**

Prerequisite: Honors AP U.S. History with a “C” average or U.S. History with a “B” average and teacher recommendation  
Class Level: 12  
Credit: .5 at WHS, 3 at JJC

This **weighted** course is an introduction to the structure, principles, processes, and problems of American government. It examines the impact of foreign policy, dissent, civil rights, and economic issues on contemporary American politics. It also analyzes the shaping of public policy by individuals and groups, both in and out of government. This dual credit course is an option for any junior or senior wishing to obtain credit from both WHS and Joliet Junior College.

### **CONSUMER ECONOMICS**

Prerequisite: None  
Class Level: 12  
Credit: .5

Economics will help the student become an efficient consumer and a more knowledgeable citizen. The basic structure of the course consists of money management, economic concepts, and consumer issues. Topics will include: general economic principles, American economic system, consumer in the marketplace, money management (budgeting, record keeping, using credit, checking, saving, investing), wise buying (insurance, housing, transportation), and the roles of government, labor, business, and agriculture.

## **SOCIOLOGY**

Prerequisite: None  
Class Level: 11, 12  
Credit: .5

Sociology is the study of human groups and their interaction. It is suggested for college-bound students. The course should provide the individual with a better understanding of how groups influence the individual and society. Topics will include: culture, social change, the family, minority groups, social control, roles, social classes, population change, religion, crime, etc.

## **PSYCHOLOGY**

Prerequisite: None  
Class Level: 11, 12  
Credit: .5

Psychology is an introduction to the study of human behavior. It is a suggested social studies elective for college-bound students. Topics will include: a thorough study of the brain, famous psychologists, learning principles, emotions, personality traits, memory/mind functions, and genetic problems. Term projects and extra weekly readings are required.

## **BUSINESS & MARKETING**

### **INTRODUCTION TO BUSINESS**

Prerequisite: None  
Class Level: 9, 10  
Credit: .5

Introduction to Business is designed to provide students with a broad knowledge and understanding of the American economic system. Units of study include: bank accounts, credit, insurance, real estate, stocks & bonds, business organization/management structures and business ethics. Special emphasis is given to career planning and the impact of technology in the workplace. Students are introduced to "Career Cruising", a web site designed for career exploration.

### **ACCOUNTING I**

Prerequisite: Solid Algebra I background  
Class Level: 10, 11, 12  
Credit: 1

This course is designed to introduce students to the language of business-accounting. Students work through the accounting process of a start-up service business set up as a sole proprietorship. Coursework includes: creation and analysis of accounting records, preparation of financial statements, business terminology, mathematical functions and financial ethics. Additional projects include the use of accounting software and a personal finance unit emphasizing the importance of budgeting.

### **BUSINESS MANAGEMENT**

Prerequisite: Introduction to Business recommended  
Class Level: 10, 11, 12  
Credit: .5

This course covers a variety of topics required for operating, managing, or owning a business. Topics pertain to: human relations, management, communications, mathematics, and entrepreneurial studies. Students create a unique company they would like to open in Wilmington and develop a business plan for their company. Students will then present their company idea to the class.

## **ADVERTISING / MARKETING**

Prerequisite: Introduction to Business recommended  
Class Level: 10, 11, 12  
Credit: .5

Students will learn how companies develop sales and marketing strategies for products and services in today's markets. This course introduces students to the knowledge and skills necessary to create promotional campaigns utilizing a range of methods from store layout to packaging details. Additional areas of study include: the importance of communication and interpersonal skills, the creation of newspaper, magazine, television and radio advertisements and the importance of public relations in the business world.

## **BUSINESS & PERSONAL LAW**

Prerequisite: Other business electives recommended  
Class Level: 10,11, 12  
Credit: .5

This course is designed to expose students to the American legal system and how it affects their personal and professional lives. Studies will provide relevant coverage of traditional business topics while stressing the legal principles essential to everyday life. This course incorporates local guest speakers and an in-class "Mock Trial".

## **MICROSOFT OFFICE PROJECTS**

Prerequisite: None  
Class Level: 9, 10, 11, 12  
Credit: .5

Students will use the Microsoft Office suite to further their knowledge and skill set in word processing, spreadsheet, database, and presentation applications. The course will be project-based and students will use multiple resources including the internet to complete these projects. The result of these projects will be printed documents and oral presentations.

## **DIGITIZED PRESENTATIONS**

Prerequisite: Microsoft Office Projects  
Class Level: 9, 10, 11, 12  
Credit: .5

An extension of Microsoft Office Projects, this class will offer students the opportunity to expand their knowledge of Microsoft PowerPoint. PowerPoint is a leader in presentation software and is a valuable tool in the educational and business world. Students will explore the extras PowerPoint has to offer to make their presentations memorable. This is a project-based class that will utilize the Internet along with other media to assist students in their presentations. Students will be expected to present their projects in front of class as part of their grade.

## **SPREADSHEET/DATABASE**

Prerequisite: Microsoft Office Projects and freshmen must have at least a "B" in math in 8<sup>th</sup> grade  
Class Level: 9, 10, 11, 12  
Credit: .5

This course, a continuation of Microsoft Office Projects, provides an extensive study of spreadsheets and databases using the Microsoft Excel and Access applications. Students will gain a further understanding and appreciation for these applications not only in the workplace, but also in everyday life.



## **DESKTOP GRAPHICS**

Prerequisite: Microsoft Office Projects  
Class Level: 9, 10, 11, 12  
Credit: .5

Students will be introduced to one of the leading industry standards in computer graphic creation and manipulation, Adobe Photoshop. During this project based class students will learn to use the tools and many options of the software along with becoming aware of differing aspects of each project such as color, flow, and use of special effects. Images will be created from scratch, templates, and scanned pictures. Projects will include logos, flyers, letterheads, self-portraits, and animated icons. This course will utilize the Internet along with other resources to broaden the student's learning.

## **DIGITAL MULTIMEDIA**

Prerequisite: Desktop Graphics  
Class Level: 10, 11, 12  
Credit: .5

This class introduces students to the many different peripherals that are available on the market today such as digital cameras and scanners. Students will learn the steps to putting together a multimedia project while using software applications, Microsoft PowerPoint and Moviemaker. Students will be using many different media including the Internet in order to complete many of the media projects that will be assigned.

## **YEARBOOK/ADVANCED MULTIMEDIA**

Prerequisite: Desktop Graphics and teacher selection  
Class Level: 10, 11, 12  
Credit: 1 (full year)

This year long course will have a production-style format that will focus on the various skills needed to produce the Wilmington High School yearbook and will culminate in the creation of the annual senior video. Students will learn how to use multiple types of media equipment while assisting other students and staff with the same equipment. Students will be working with various software titles to create CD'S and DVD's for multiple projects in and out of the school environment. Students will be taught the vocabulary and language of the yearbook process, the elements of design, the writing process, and the photography needed to create the book. Further student responsibilities will include attending extra-curricular events as needed to cover assigned topics, assisting in the marketing of the yearbook and participating in fundraisers. This is a year-long commitment and class work may require attendance after the regular school year has ended to complete production. This class may be repeated.

## **PROGRAMMING I**

Prerequisite: Spreadsheet/Database or instructor consent  
Class Level: 11, 12  
Credit: .5

Students will be introduced to computer programming through the use of Microsoft Visual Basic. This programming application is easy for beginners because it uses the Microsoft environment with which students are comfortable. Students will gain an understanding for the logic in creating and writing programs while enhancing their problem-solving skills.

## **PROGRAMMING II**

Prerequisite: Completion of Programming I with a "C" average or better  
Class Level: 11, 12  
Credit: .5

An extension of Programming I, this course continues with Microsoft Visual Basic to expand the student's knowledge of programming. In addition, students enrolling in this class will be introduced to HTML, the programming language of the

Internet along with other web authoring tools. Completion of Programming I and II will give students a solid foundation for future programming in college and beyond.

## **INDUSTRIAL TECHNOLOGY**

### **BASIC MECHANICAL DRAFTING**

Prerequisite: None  
Class Level: 9, 10, 11, 12  
Credit: 1

Mechanical Drafting is an introduction to the graphic language of drafting. Throughout this course students will become familiar with the tools and terms used in the industry. Basic fraction work and geometric theories are applied to create precision mechanical drawings. Skills taught here benefit students who have an interest in graphic design, engineering, or any other drafting related field.

### **COMPUTER AIDED DRAFTING**

Prerequisite: Basic Mechanical Drafting  
Class Level: 10, 11, 12  
Credit: 1

Computer Aided Drafting is the students' first opportunity to work with computer aided drafting systems (CAD). Students will continue to refine their drafting skills by moving from the traditional pen and paper drawing to the computer. By learning commands and basic key function, students will generate a wide variety of mechanical and architectural drawings. Using AutoCAD to improve efficiency in drawing is the main focus on this course.

### **ARCHITECTURE: RESIDENTIAL DRAFTING**

Prerequisite: None  
Class Level: 11, 12  
Credit: 1

Basic Residential Drafting is a course where students become exposed to the detailed elements of residential construction in relation to print drawing. From foundation and framing to roofing layouts and electrical plans, students will learn the information needed to plan and design a residential structure. The residential structure is broken down to its basic elements (Living, Service, and Sleeping Areas). This is done in order to focus students on good design practice and proper planning techniques. Students will then learn each phase of residential construction while drafting prints that guide this process. Beginning surveying and plot plans using GPS/GIS will be introduced throughout the year. Developing an entire set of residential plans and building a scale model are the culminating projects of this course. [sprice@iasaedu.org](mailto:sprice@iasaedu.org).

### **ADVANCED ARCHITECTURAL DRAFTING**

Prerequisite: ARCHITECTURE: RESIDENTIAL DRAFTING  
Class Level: 11, 12  
Credit: 1

Advanced Architectural Drafting is a more intense look at architecture. Through multi-unit development (duplexes/apartments), commercial building design, and general city planning, students will continue to refine their drafting skills. Students will connect local building codes with an adapted design that fits certain parameters. GPS/GIS strategies will be applied showing the development and advances in the drafting industry. Hands on activities that include trips to job sites and buildings may be a part of this course. This may require those who enroll to meet before or after school occasionally.

### **ORIENTATION TO INDUSTRIAL EDUCATION**

Prerequisite: None  
Class Level: 9, 10, 11  
Credit: 1

This course is a series of nine-week units in production technology, transportation technology, communication technology, and energy utilization technology. Each unit will cover the: resources, technical processes, industrial application,

technological impact and occupations encompassed by that system. Units in production will include: product design, materials and processes, tools and equipment, safety procedures, corporate structure, management, research and development, production planning, mass production, marketing and servicing. Units in transportation will include: material handling, atmospheric and space transportation, marine transportation, terrestrial transportation, and computer uses in transportation. Units in communication will include: design and drafting, radio and television broadcasting, computers in communication, photography, graphic arts, and telecommunications. Units in energy utilization will include: conservation of energy, electrical fundamentals, solar energy resources, alternate energy resources, fossil fuels, nuclear power, energy conservation, and computer uses in energy technology.

## **BUILDING CONSTRUCTION TECHNOLOGY**

Prerequisite: None  
Class Level: 11, 12  
Credit: 2 per semester  
Note: Student must supply his/her own tools

This course provides experience and activities designed around safety, power tools, and construction-related math. Emphasis will be placed on: footings and foundations, masonry, framing, sheathing, wiring, plumbing, roofing, siding, etc. Students will develop and produce one or more class projects. This course is useful for students who plan to enter the construction field, or those who want to be able to handle "around-the-house" projects.

## **FINE ARTS**

### **ART I - FUNDAMENTALS**

Prerequisite: None  
Class Level: 9,10,11,12  
Credit: 1

Art fundamentals is designed to provide a variety of experiences in the visual arts for both students who plan to continue in art and students who wish to take only one year of art. Students will explore the area of: drawing, and shading, perspective, print making, design, painting, sculpture, art history and various other art forms. These areas will be studied through a variety of media such as: pencil, pen and ink, marker, pastels, photography, paint, clay and other materials. Art talent is not required. Through these experiences, students will gain both a basic knowledge of the visual arts and a variety of skills necessary for entry into Art I. Students will be required to keep a sketchbook.

### **ART II**

Prerequisite: Art I - Fundamentals  
Class Level: 10,11,12  
Credit: 1

This studio course is planned so that students will learn additional techniques and creative thought processed as well as new applications for the skills and concepts learned in Art Fundamentals. This will result in students having larger repertoires of responses for solving creative problems, and having a greater understanding and appreciation of the visual arts. Students who have successfully completed Art Fundamentals will have the background knowledge and skills necessary for this course.

The content of Art I will focus on the understanding and use of various aspects of two and three-dimensional art and art history, and may include: drawing, painting, sculpture, photography, graphic art, print making and pottery. Students will be required to maintain a sketchbook (for homework and projects) and a portfolio of completed projects (to monitor progress).

### **ART III**

Prerequisite: Art II  
Class Level: 11,12  
Credit: 1

This year long course is designed for students who have completed Art Fundamentals and Art I and are looking for further expand their art knowledge and experiences. This course will be a continuation of techniques and materials studied in the first two classes. The techniques and materials used will be more sophisticated; therefore, greater refinement in their application will be stressed. Higher levels of creativity will be expected of students as they apply familiar as well as new

techniques. Students will also be required to demonstrate better compositional skills and work towards the development of a personal style and self-expression. Students will work on more individualized projects and advanced techniques in: digital imagery, Photoshop, drawing, painting, printmaking, sculpture, and design. Art history and various styles will be explored. Students will be required to keep a sketchbook for homework and projects.

#### **ART IV**

Prerequisite: Minimum of "C" in Art III and teacher consent  
Class Level: 12  
Credit: 1

This highly individualized course is designed for the serious art student who wishes to further pursue art education after high school. Emphasis will be on self-direction and motivation, self-expression, experimentation, and in-depth study of a particular area. For the first semester, students will be responsible for developing their own goals and objectives under the direction of the instructor and then creating assignments to fulfill these goals. For the second semester, students will develop five or more sequential assignments based on a particular theme. One-on-one critiques with the instructor will be scheduled periodically.

### **MUSIC**

#### **BAND**

Prerequisite: Previous training on a band instrument and consent of instructor  
Class Level: 9, 10, 11, 12  
Credit: 1

The band is a performance organization whose members learn artistic expression and musical skills. Students participate in a variety of performing experiences. Required performances include: all parades, concerts, home football games, home basketball games, Interstate-8 Music Festivals, Solo and Ensemble competitions and music festivals. In addition, various performances are given for the school and community throughout the year.

Selected students are encouraged to try out for and participate in the I.M.E.A. Band Festival. Individual and small group lessons are held throughout the year, during home room or before or after school, to help improve skills.

#### **CHORUS**

Prerequisite: None  
Class Level: 9, 10, 11, 12  
Credit: 1

Mixed Chorus is an ensemble class, open to all students wishing to participate in vocal music performance. Through active participation, the class will sing music from various historical eras and various musical styles. Modern musical notation is studied and graduated sight-reading skills developed. Required performances include the Christmas and Spring Concerts. Other performance opportunities include I-8 Choral Festival and Solo & Ensemble Contest.

#### **SHOWCATS**

Prerequisite: Audition in spring  
Class Level: 9, 10, 11, 12  
Credit: 1

The Showcats are a small ensemble whose focus is dynamic performance integrating vocal music and choreography. As a performance group they present concerts and entertainment for school and community organizations throughout the year. These outside performances are a required part of the class.

#### **CONTEMPORARY MUSIC AND ITS EFFECT ON SOCIETY**

Prerequisite: None  
Class Level: 9,10,11,12  
Credit: .5

Students will study music from the present day, its effect on society, and where and when it began. The curriculum will include how controversial music, artists, and bands have shaped our society. The context of this class will include group discussion, projects and listening examples. Iconic figures, censorship and the study of lyrics will also be covered.

## **EVOLUTION OF JAZZ & ROCK**

Prerequisite: None  
Class Level: 9,10,11,12  
Credit: .5

Evolution of Jazz and Rock is based on listening and responding to music in its cultural context. Students will study a broad range of music types: blues, ragtime, and rock and roll. This class will cover how rock and roll formed and will include how it has affected and molded American culture.

## **HEALTH / PHYSICAL EDUCATION / DRIVER EDUCATION**

### **HEALTH**

Prerequisite: None  
Class Level: 10  
Credit: .5

Health is designed to provide the student with a functional knowledge of requirements to maintain personal health. This course includes three main topics: physical, social, and mental health. During this course students will be provided an opportunity to be certified to perform CPR and to use an AED. Final grades will be based upon work sheets, exams, projects, and other work assigned. In compliance with state legislation, instruction on the medical and legal ramifications of alcohol, drug and tobacco use and abuse during pregnancy will be included. **NOTE: Students will be excused from taking or participating in comprehensive sex education if a parent/guardian submits written objections to the school administrator.**

### **FRESHMAN PHYSICAL EDUCATION**

Prerequisite: None  
Class Level: 9  
Credit: .5 per semester

This class is designed to give students a foundation for life long physical activity. Students will learn basic fitness principles throughout each semester. Students will be introduced to warm-up techniques, cardiovascular endurance exercise, strength exercise, and basic weightlifting exercises. Also, students will participate in a variety of individual and team games and activities. A classroom setting will also be utilized for this class. Students will be assessed throughout the year on participation and knowledge of activities and fitness through observation, written work, and written assessments.

### **PHYSICAL EDUCATION**

Prerequisite: Freshman PE  
Class Level: 10, 11, 12  
Credit: .5 per semester

This class is designed to continue building upon the fundamentals learned from the Freshmen PE course. Students will again participate in a variety of individual and team games and activities. This class will also elaborate more on fitness principles and exercises. Students will be assessed throughout the semester on participation and knowledge of activities and fitness through observation, written work and written assessment.

### **ADVANCED PHYSICAL EDUCATION**

Prerequisite: Must be an athlete or have permission of instructor, sophomores must have at least a C in Freshman PE  
Class Level: 10, 11, 12  
Credit: .5 per semester

This class is designed to promote strength, flexibility, and endurance for students involved in interscholastic sports. Students will learn and participate in a variety of activities including: injury prevention, aerobic conditioning, agility,

strength and weight training, and alternative fitness workouts. Students will be assessed throughout the semester on participation and knowledge of fitness knowledge through observation, daily written logs, and written assessment.

## **OUTDOOR EDUCATION**

Prerequisite: None  
Class Level: 11, 12  
Credit: .5

This course introduces students to outdoor activities. These activities include, but are not limited to, fishing, hiking, biking, camping, team building and orienteering. Students enrolled in this class will be required to obtain a fishing license.

## **DRIVER EDUCATION CLASSROOM**

Class Level: 9, 10, 11, 12 - Multi-level with preference to upperclassmen 15 years of age+  
Credit: .5  
Fee Charged: Behind-the-wheel (BTW) fee is \$200 (payable to WHS) / Illinois Instructional Permit fee is \$20 (payable to the Secretary of State).

Requirement: By state of Illinois requirement, students must have passed at least eight courses during the previous two semesters prior to enrolling in driver's education. **Age-appropriate freshmen may enroll in the classroom portion of driver education in the second semester if they passed all eight classes during semester one.**

Each student will meet the minimum state requirement of 30 hours of classroom instruction. The curriculum is based on decision making and experience which will prepare students to pass all Illinois Secretary of State tests and be aware of the potential hazards in various driving situations. These experiences are taught through a variety of methods which include: lectures, discussion, group learning, guest speakers, research projects, and testing. **Successful completion of the classroom portion is a requirement for graduation.**

The Behind-the-Wheel portion is conducted using a dual control car and encompasses driving in: urban, rural, neighborhood, interstate, and emergency situations. **Each student will receive six hours of driving instruction. Students must be enrolled in PE while taking Driver Education because BTW time is scheduled during PE classes.** Enrollment in BTW is determined by birthday order, in conjunction with Physical Education classes and availability of schedule changes.

## **ADDITIONAL ELECTIVE ACADEMIC COURSES**

### **INTRODUCTION TO ELEMENTARY TEACHING I**

Prerequisite: Minimum of 3.0 GPA  
Class Level: 11, 12  
Credit: 1

This course provides college-bound students a unique opportunity to explore a career working with children. Students gain first-hand experience by assisting in pre-school, elementary and middle school classrooms, providing hands-on knowledge for making this important decision. The IET experience and curriculum also give education majors a head start in college. Students must provide their own transportation to and from the schools. This course requires a year-long commitment and will be graded on a pass/fail basis.

### **INTRODUCTION TO ELEMENTARY TEACHING II**

Prerequisite: Introduction to Elementary Teaching I with at least a B average  
Class Level: 12  
Credit: 1

This course allows students to gain additional experience in pre-school through middle school classrooms. Students must provide their own transportation to and from the schools. This course also requires a year-long commitment and may be double-blocked with IET Practicum to allow students to assist /be in their classrooms every day. Grades will be determined on a pass/fail basis.

### **IET PRACTICUM**

Prerequisite: Must take concurrently with IET II  
Class Level: 12  
Credit: 1

IET II students may assist in pre-school through middle school classrooms every day by taking this course. This provides the best possible experience for students who are seriously considering a career in education. Students may prepare instructional materials at home. This course requires a year-long commitment.

### **PARA-PROFESSIONAL INTERNSHIP**

Class Level: 12  
Credit: 1 per semester

This course will allow students to work as an intern at an arranged placement. Students will meet with an instructor one day each week, and will participate in activities at the internship placement during the other four days. Assignments such as journaling and reflective essays will be required. Interested students should meet with a Guidance Counselor to discuss possibilities.

### **OFFICE AIDE**

Prerequisite: Recommendation of front office staff  
Class Level: 11, 12  
Credit: .5 per semester

Students will assist a supervisor with assigned tasks. Students will be graded on a Pass/Fail basis. The four year PE requirement will not be waived to allow a student to be an Aide.

### **ADVANCED P.E. AIDE**

Prerequisite: In a sport  
Class Level: 11, 12  
Credit: .5 per semester

Students will assist in the everyday maintenance of the physical education area and anything else assigned by the Instructor. The student will be graded on a pass/fail basis. The four year PE requirement will not be waived to allow a student to be an Aide.

### **KITCHEN AIDE**

Prerequisite: Recommendation of kitchen staff  
Class Level: 9, 10, 11, 12  
Credit: .5 per semester

Students will assist kitchen staff in food preparation, kitchen clean up and additional duties as assigned. Students will be graded on a Pass/Fail basis. The four year PE requirement will not be waived to allow a student to be an Aide. Students taking this option must take 3.5 years of Physical Education.

### **LIBRARY/MEDIA SERVICE AIDE**

Prerequisite: "C" average or better, no disciplinary problems, interest in reading and/or audio-visual equipment and computers; permission of instructor  
Class Level: 11, 12  
Credit: .5 per semester

Students taking this course will receive training as a library/media assistant. Emphasis will be placed on library routines, including: circulation procedures, processing, distribution of materials and research techniques. Assessment will be based on performance. Students will be graded on a Pass/Fail basis. Students taking this option must take 3.5 years of Physical Education.

Students must provide their own transportation for JJC classes. Juniors and seniors who are "on-track" for graduation credits, will have the opportunity to enroll in JJC courses during the school day. Students will pay all course costs, including book fees, directly to JJC after pre-registering in the WHS Guidance Office. Students planning to enroll in any English or math courses must receive satisfactory scores on JJC's COMPASS Test. **To receive dual credit, students must submit a copy of their official grade report to the WHS Guidance Office. JJC grades for academic classes will be weighted.**

### **COLLEGE COURSES AT WHS**

WHS students who meet the established course pre-requisites (refer to course descriptions) may also have the opportunity to enroll in dual credit courses being offered at WHS. In addition to several entry-level technology courses which qualify for dual credit, there may also be opportunities to enroll in the following dual credit courses at the high school in place of regular English, U.S. History, or Civics which are required courses: English 101, English 102, History 103, History 104, and Political Science 101. A reasonable, additional enrollment fee may be assigned by the school district for these opportunities - depending on student interest and staffing needs. However, the assigned fee would be significantly less than the price which would be paid for the same college credit earned at a junior college or 4-year institution. Textbook costs are also the responsibility of the student. Students planning to enroll in any dual credit class offered at Wilmington High School (except for Technology classes) must receive satisfactory scores on the COMPASS Test.

Dual credit courses which offer simultaneous high school and college credit for completion are typically recognized by the vast majority of colleges and universities; however, it is always the responsibility of students and their parents to verify that credits earned will be accepted by their college of choice. All grades for college dual credit courses (except for courses offered at WHS within the Technology sequence and WILCO courses) will be weighted.

### **ONLINE TEACHING & LEARNING**

#### **Illinois Virtual School**

Students may also choose to enroll in a virtual course being offered through the Illinois Virtual School ([www.ilvirtual.org](http://www.ilvirtual.org)). Students would be limited to taking one of these courses per school year-and these offerings will not be considered for the meeting of specified WHS graduation requirements unless administrative approval is granted. This avenue may be helpful for credit recovery and/or the completion of any desired elective offerings which are not currently offered at WHS. Students will be responsible for paying \$190 per course / per semester for elective courses.

#### **Joliet Junior College**

WHS students have the option to pursue virtual learning opportunities through a few different avenues. Numerous dual credit courses in all content areas are offered each year by JJC. An updated list of course offerings (including both in person in Joliet and virtually via the Web) can be found at <http://jjc.edu/academics/class-schedule/Pages/default.aspx>. To view all JJC online offerings, you should select the: 1. term or semester desired; 2. Course subject (ie. History, Mathematics, etc.); and 3. 'online' option under the Course Type drop-down box. All policies applying to students travelling to JJC for programming will also apply to students enrolling in JJC web-based offerings. Students will pay all course costs directly to JJC; and to receive dual credit – students must submit a copy of their official grade report to the WHS Guidance Office.

#### **OpenCourseWare – Independent Study**

WHS students also have the opportunity to pursue individual educational interests for Elective Credit via an Independent Study of OpenCourseWare (OCW) content. OCW is an initiative which helps to make world-class educational opportunities and resources from colleges and universities available free of charge to people throughout the world via the internet. These experiences are not accompanied by official college credit or access to formal certifications; however, OCW does open up many doors for learning and access to very valuable resources in a wide variety of areas of study. Students may request to pursue learning in areas of interest related to current passions or future career aspirations via OpenCourseWare offerings, which are being made available by institutions such as Harvard University, University of Michigan, University of California at Berkley, Stanford University, and many more. All Independent Study requests must be approved by the WHS Principal, and will not be allowable as substitutes for any specific courses which are required for high school graduation. Juniors and Seniors may request to register for an Independent Study as an elective course offering, limited to one per semester. Independent Studies will be graded on a Pass/Fail basis, with specific requirements being agreed upon by the student and the building principal, with the assistance of a cooperating teacher in the appropriate content area whenever possible. Although students will not be assigned to a specific classroom during the period which is set aside for Independent Study, they will be required to be in attendance at WHS during these time periods and will have access to the required technology to assist in completing the approved OCW lessons and activities.



Wilco's programs are designed to offer students career-based courses providing skills required for employment upon completion. Students attend one of three sessions. Courses are scheduled at the home school. Some programs or levels may not be available each session.

Session 1 (Aviation and AIM)	7:30/50 a.m. - 9:40/50 a.m.
Session 3 (other Romeoville courses)	12:26 p.m. - 2:26 p.m.

### **AUTO BODY I and II**

The Auto Body program, taught by ASE certified instructors, is made up of many new and innovative techniques to repair today's high-tech automobiles. Students will be instructed in modern repair procedures including safety and basic first aid, handling of flammable materials, estimating repair costs, tool usage and safety, collision body damage, minor dent repair, spray equipment and painting procedures, MIG welding, and car detailing. Advanced students will be instructed in basic paint designs and clear coating procedures. Upon completion of this 2 year program, the student will have the opportunity to enter into a number of careers in the automotive related fields: painter, metal person, combination technician, insurance appraiser, parts counter personnel, tow truck driver, and auto body instructor. The curriculum will follow the National Automotive Technicians Educational Foundation (NATEF) format. Students will be instructed in non-structural analysis and damage repair (body components) and painting & refinishing. This program will prepare students for the Automotive Service Excellence (ASE) certification. Students will be required to lab supplies and appropriate clothing. First year students may be eligible for 16 dual credits with **Joliet Junior College**: AB130, AB135, AB110, and AB215. Second year students may be eligible for an additional 12 dual credits from **Joliet Junior College**: AB115, AB125, and AB140. **Estimated cost of participation for first year students is \$85.00.**

*Guidance Notes: 70% of time in lab, assignment and test for each area/chapter.*

### **AUTO SERVICE (MECHANICS) I**

The two year auto service program, taught by ASE certified instructors, is designed to train students for entry-level automotive technician positions and/or preparation for post-secondary programs. Students' knowledge of measurement, estimation, and algebra, along with a technology course would be beneficial. First year students will develop skills in vehicle maintenance and repair including, brakes, steering and suspension, and will also learn the basics of electrical and engine performance (sensors). The curriculum follows the National Automotive Technicians Education Foundation (NATEF) format. This program will prepare students for the Automotive Service Excellence (ASE) certification exams. Students will be required to purchase tools, Wilco coveralls, safety glasses, and nitrile gloves. **Estimated cost of participation is \$50.00.** *Guidance Notes: 70% of time in lab, assignment and test for each area/chapter.*

### **AUTO SERVICE (MECHANICS) II**

Second year students will continue their training in electrical and engine performance after successful completion of Auto Service 1. Students will be completing labs involving diagnosing electrical circuits, sensors, drivability problems, check engine lights, and emission related problems. Upon completion of this two year course, students may earn college credit towards Nashville- Auto Diesel or Joliet Junior College. Students are encouraged to continue their training through an appropriate technical school, college, or university. The curriculum follows the National Automotive Technicians Education Foundation (NATEF) format. This program will prepare students for the Automotive Service Excellence (ASE) certification. Assuming students continue to have their tools, safety glasses, coveralls, and nitrile gloves there will be no additional fees but replacement items will be available if needed. Dual credit may be available through **Joliet Junior College**: AS106, 3 credit hours. *Guidance Notes: 70% of time in lab, assignment and test for each area/chapter.*

### **COMPUTER TECHNOLOGY I**

This one year course is made up of the following components which may allow the student to receive college credits from Joliet Junior College.

**Computing Information Systems Fundamentals:** A first course for business or computer information systems majors providing a complete introductory study of information systems, computer programming and application software is presented. Course topics include the elements of a business computer system, system analysis and design, computer-to-mainframe systems, and program design and implementation. Also included will be an introduction to the Internet and its uses, computer application software and BASIC programming. In addition, this course is designed to develop computer application skills using a totally integrated software package that includes word processing, a spreadsheet, a database, and presentation software in a Windows environment. Students will be interfacing throughout with the Internet. The class meets in a PC-equipped classroom. Students in this course may apply for **JJC Dual Credit**: OFS 214, 4 credit hours.

**Data Communications and Networking:** This course provides hands-on instruction in theory and practice in the areas of setup, maintenance, software and hardware installation, troubleshooting, circuitry, system configuration, and repair of personal computers. Advanced students will receive instruction on installing and servicing a network,

repairing/replacing faulty mechanical and electronic parts. Students will have the opportunity to learn the prerequisite skills necessary to become A+ certified. A+ is an industry standard designation for competency. Students in this course are dual enrolled with **Joliet Junior College: CIS145**, 3 credit hours.

**A+ Guide to Managing and Maintaining Your PC:** This course provides hands-on instruction in theory and practice in the areas of setup, maintenance, software and hardware installation, troubleshooting, circuitry, system configuration, and repair of personal computers. Advanced students will receive instruction on installing and servicing a network, repairing/replacing faulty mechanical and electronic parts. Students will have the opportunity to learn the prerequisite skills necessary to become A+ certified. A+ is an industry standard designation for competency. Students in this course are dual enrolled with **Joliet Junior College: CIS275**, 4 credit hours. *Guidance Notes: Weekly assignments, projects, and quiz. Heavy reading and lecture format.*

### **CULINARY ARTS I**

Students have the opportunity to build interest and master essential hands-on culinary techniques and theoretical academics for a career in the Hospitality Industry. The ProStart Program I & II is sponsored by the National Restaurant Association Educational Foundation and is an accelerated curriculum which is followed for Culinary Arts I students (taught in the first year of the program). Coursework topics include, but are not limited to: Foodservice History, Sanitation & Safety; Equipment Usage; Basic & Technological Aspects in Foodservice Preparation; Nutrition; Classical Cooking; Ordering, Purchasing, Receiving & Inventory Controls; Workplace Math & Accounting; Introduction to Lodging & Tourism; Workplace Skills in securing employment and in Customer Relations; Career and Technical Ethics. Students will be directly involved in all aspects of a commercial kitchen operation. Students will participate in at least 10 hours per semester of outside community service (not including field trips), as offered by the instructor. Permitted field trips are offered during and outside of the required class activities and are instrumental to education within the Hospitality Industry. Students will also have an opportunity to use their culinary and leadership skills through participation in FCCLA, ProStart, and/or SkillsUSA student organizations. Additional opportunities are made available for dual college credits, articulated college credits, and scholarship availability with completed coursework requirements. Foods I is recommended for participation in the class. Upon successful completion of this program and *COMPASS placement*, students may earn credit from Joliet Junior College: **CA105 and CA106**, (5 credit hours). **Estimated cost of participation is \$50.00.** *Guidance Notes: 60% of time in lab. Weekly assignments and quiz. Emphasis on mathematics at the Algebra level.*

### **CULINARY ARTS II**

Second year students have more emphasis placed on advanced culinary skills, a higher contact with customer relations, increased supervisory & management experiences, an increase in outside activities, opportunity to become a member of the culinary competition team and internship opportunities. Students are required to participate in at least 10 hours per semester of outside community activity (not including field trips), as offered by the instructor. Permitted field trips are offered as an outside of the class required activity and are instrumental to education within the Hospitality Industry. Dual credit with **Joliet Junior College** is available with *COMPASS placement: CA101* (2 credit hours) *Guidance Notes: 60% of time in lab. Weekly assignments and quiz. Emphasis on mathematics at the Algebra level.*

### **EMERGENCY MEDICAL SERVICES**

Students who enroll in the emergency medical technician program must have successfully completed the first year of **Fire Science or Introduction to Health Professions** with an 80%/B or better or have completed three years of science with a 'B' or better. The year will focus on preparing students for the multiple career areas related to the Fire Service/Health Care fields. Students will focus on the care, handling, and extrication of the critically ill and injured. Topics will include airway management, patient assessment, vital signs, cardiopulmonary resuscitation, lifting and moving patients, documentation, communication, pharmacology and cardiac emergencies. A heavy emphasis will be put on medical terminology. The EMT-B programs requires students spend sixteen hours off-campus in a hospital emergency room and twenty-four hours of ambulance ride-time in addition to the classroom. Students who successfully complete the course may take the EMT-Basic exam. Dual Credit available through **College of DuPage** with *COMPASS placement* or an ACT composite of 20: **FIRE2271**, 10 credit hours. **Estimated cost of participation is \$100 plus \$20 for the State Exam.** *Guidance Notes: 30% of time in lab. Heavy emphasis on medical terminology and human anatomy. Certifications may include: American Heart Association Health Care Provider CPR and EMT-B License*

### **GAME DESIGN**

This course introduces students to game design, theory, and game programming. Topics will include analyzing game genres, gameplay, artificial intelligence, storytelling, level design, and play testing. Students will design and write a simple game and design document, much like what is used in the profession. In addition, an introduction to computer programming in the BASIC language will teach students problem analysis, program design and programming in QBASIC language. Students will use a PC-based programming environment. In second semester, students will be introduced to the development of computer and video games. Students will learn how to design and implement 2D games using game engines. Dual credit may be available through **Joliet Junior College: GAME200**

## **MEDICAL OFFICE I**

Students will be introduced to the allied health profession of Medical Assisting. Upon completion of this course the student may enter the workforce or continue their education through a junior college or university in Medical Administrative Assistance, Medical Coding and /or Medical Transcription. Topics to be covered include medical terminology, computerized medical office skills, medical assisting skills, Microsoft Office 2010, CPR certification and Basic First Aid. This course is the first of two courses students may take to prepare for a medical assisting career. The course length is two semesters. Suggested prerequisites include: basic math of addition/subtraction and calculator use; computer keyboarding, and health/ life science. Dual credit is available with Joliet Junior College with *COMPASS placement*: BIO100, OFS214, and HIM101 (10 credits). *Guidance Notes: 50% of time in lab. Daily assignments and weekly quiz. Emphasis on medical terminology and computer skills.*

## **WELDING AND FABRICATION I**

The students will learn to perform welds using all positions. The students' ability to operate, adjust, and safely control power sources and gas equipment is essential. Students will learn how to braze weld, gas weld, shielded metal arc weld, mig weld, gas cutting, and plasma arc cutting. Blueprint reading and the use of weld symbols are also stressed. Students will learn to be a combination welder and work toward certification. Upon completion of this course a student may earn college credits through Joliet Junior College. Students are required to purchase necessary tools and safety clothing. **Estimated cost of participation is \$85.00.** Dual credit may be available through Joliet Junior College: OPS111, WLDG 101, and WLDG 102, 7 credit hours. *Guidance Notes: 70% of time in lab. Weekly assignments and quiz.*

## **WELDING AND FABRICATION II**

This course will emphasize development of advanced skills in metal arc welding, brazing, and flame-cutting. Instruction will include safety practices, properties of metals, electrical principles, and advanced welding methods and equipment. Students will utilize MIG, TIG, and semi-automatic equipment to complete their various projects and activities. The development of employability skills, as well as transition skills, and vocational ethics, will be included in the course. Dual credit may be available through Joliet Junior College: WLDG 120, 3 credit hours. *Guidance Notes: 70% of time in lab. Weekly assignments and quiz.*

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## **The following courses are offered at “other” locations (transportation not provided):**

### **AIM: ADVANCED INTEGRATED MANUFACTURING (1<sup>st</sup> session - SENIORS must provide their own transportation to JJC)**

This senior only program is offered in partnership with **Joliet Junior College** and will be held at Main Campus on Hoboult Rd, Joliet, IL. Students will participate in four separate college courses building skills and awareness in heating, ventilation, and air conditioning, industrial maintenance, basic wiring/circuit design, and industrial fluid power. Students will learn about OSHA safety programs, maintenance physics, hand and power tools, precision measuring, technical diagrams and assembly prints, fastening devices, lubrication, basic pump operation, and basic pipefitting procedures. Students will study the principles of hydraulics and pneumatics as applied to the basic theory of fluids and typical industrial circuits. Students will build fluid power circuits as applied to industrial applications. Next, the fundamentals of electrical and electronic circuits, including the calculation and measurement of voltage, current, resistance and power will be instructed with emphasis placed on safe meter usage, print reading and exposure to a variety of electrical technologies currently used in industry. Topics include: introductory residential wiring, operation of AC motors, industrial solid-state devices, variable frequency drives, industrial controls, and single-phase/three-phase power distribution along with skills necessary to safely use electronic test equipment on low- and high-voltage components, the course will introduce students to the installation, service, troubleshooting, and repairs on various types of electrical controls, circuits and components.

**Students will need their own transportation to and from class. Students will be dual enrolled earning high school and college credit: IMT101, IMT121, HVAC121, and EEAS101, 13 credits.** *Guidance Notes: Solid math skills needed with record of good attendance and behavior.*

### **AVIATION I (1<sup>st</sup> session - Students must provide their own transportation to WILCO in Romeoville)**

Students enrolled in the Aviation program at Wilco will learn the fundamentals of the Aerospace Industry including the theory of flight, maintenance and non-destructive testing. During the second semester, instructional topics will encompass aerodynamics, aircraft design, stability, and control. In addition, students will learn about Federal Aviation Administration regulations and publications, weight and balance, and ground handling of aircraft. This course uses theoretical and practical training applications. Upon successful completion of the program with an 'A' or 'B,' students will be eligible for 3 hours of articulated credit at Lewis University. Students may need to provide their own transportation. *Guidance Notes: Heavy reading and lecture.*

### **HEAVY EQUIPMENT TECHNOLOGY (SENIORS must provide their own transportation to Local 150)**

The heavy equipment technology program is designed to train students for careers as heavy equipment mechanics and is a senior only program. Heavy equipment includes: cranes, bulldozers, frontend loaders, rollers, backhoes, and hoists. Emphasis will be on the fundamentals as it relates to diesel engines and fuel systems used in heavy equipment. The program will introduce students to units of measurement, electron theory, wiring diagrams, schematics and symbols, basic principles of hydraulics, basic engine components, intake and exhausts systems, introduction of welding and power train functions. This off-campus class is available through an application process only. Students must be willing to participate in drug testing and meet attendance, behavior, and grade requirements. The class will be located at ASIP-Local 150 in Wilmington. **Students must provide their own transportation daily to the Wilmington site.** Students have an opportunity to earn dual credit from Joliet Junior College: OPS111. Students must have steel toed boots and purchase program shirts at an estimated cost of \$43.50.

### **COSMETOLOGY (students must provide their own transportation to Franklin Cosmetology School in Morris)**

This off-campus course is open to students to attend a state-approved school of beauty culture. The professional school will provide the facility, instruction, and clinical training as prescribed by the Illinois Department of Public Health. There is a substantial student fee for this course ranging from \$1,800 to \$7,500, which varies by cosmetology school and is subject to change. Students provide their own transportation. Registration needs to be done by first year students in early January through a separate application process. *Guidance Notes: Clinical assignments, workbook assignments, and task signoffs.* Emphasis on chemical reactions and human anatomy. Certifications: Program completion allows students to sit for the Illinois Department of Public Health Cosmetology license.

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## **The following courses are offered in Braidwood (transportation provided):**

### **INTRODUCTION TO HEALTH PROFESSIONS (this class is offered at Reed Custer High School)**

This course is an overview of the health care industry, including medical ethics and law, trends in health care, and exploration of career options. It includes an introduction to medical terminology, anatomy and physiology, vital sign measurement, math for conversions, standard precautions training, basic cardiac life support skills and first aid. The goal of the course is to assist students in making an informed choice about health care occupations and learn basic skills related to all facets of the health care industry. Dual credit available through the **College of DuPage**: Health Sciences 1100 and 1110 and Physical Education 2254, 9 credit hours. **Certification may include:** American Heart Association Health Care Provider CPR

### **CERTIFIED NURSING ASSISTANT (this class is offered at Reed Custer High School)**

The Certified Nursing Assistant program is a senior only program structured to prepare the student for employment as a Certified Nurse Assistant. The curriculum includes all standards and procedures contained in the Illinois Department of Public Health Certified Nurse Aide Instruction Model. The State Nurse Aide Examination can be taken through this course with the completion of 40 hours of on-site clinical experience at a local nursing facility, included in the class structure if student has a social security number. Students must have transportation to the clinical site, a physical, and TB test before September 15th. Before beginning the clinical experience, students must undergo a Health Care Worker criminal background check. Throughout the semester, students must maintain an 80% to remain eligible for Joliet Junior College credit and Illinois Department of Public Health Certified Nurse Aide Exam. Upon completion of this course, students may choose to continue their education in preparation for any of a number of careers in the health care field i.e.; Registered Nurse, Physical Therapist, Respiratory Therapist, Ultrasound Technician, etc. Students are required to wear appropriate clothing at clinical site. Student may receive Joliet Junior College credit for NA101, 7.5 credit hours. Estimated cost of participation is \$100 with an additional \$65 for the State CNA exam in the Spring. *Guidance Notes: 30% of time in lab. Daily assignments and weekly tests. Emphasis on human anatomy. Certifications may include: American Heart Association Health Care Provider CPR and Certified Nursing Assistant License*

### **FIRE SCIENCE (this class is offered at the Braidwood Fire Department)**

Fire Science will follow the curriculum set forth by the State of Illinois Fire Marshall's Office, the Illinois Department of Health, and the Department of Transportation. Students will learn through classroom and guided activities the essentials of firefighting which will include: fire chemistry, building construction, wearing personal protective clothing, identifying ropes, tying knots, using fire extinguishers, performing forcible entry, carrying and raising ladders, operating self-contained breathing apparatus, and auto extrication. Students will learn how to employ search and rescue techniques with ventilation tools and practice hose evolutions on an operating engine, all in a safe environment. Students will learn about equipment and assessment used to stabilize victims before the arrival of an ambulance. Dual credit available through the **College of DuPage: FIRE1100, 2230, and 2283**, 9 credit hours. **Certifications may include:** First Responder and American Heart Association Health Care Provider CPR **Expected cost of participation is \$50.00.** *Guidance Notes: 50% of time in lab. Emphasis on physical fitness, reading comprehension and basic math.*

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## **The following courses are offered in Coal City through GAVC (transportation provided):**

### **CRIMINAL JUSTICE/LAW ENFORCEMENT I (this class is offered at Coal City High School)**

Students will be educated in a wide range of criminal justice topics such as law enforcement, corrections, parole, probation, court system, security management, current legal issues, terrorism, as well as other related areas of our criminal justice system. The purpose of the course is to provide students with basic information to understand our criminal justice system and/or to pursue a career in the criminal justice field, both public and private. College Credits are also earned during this program through Joliet Junior College. Disclaimer - Dual Credit is subject to change based upon revisions made from Joliet Junior College. GAVC has no control over this entity.

### **CRIMINAL JUSTICE/LAW ENFORCEMENT II (this class is offered at Coal City High School)**

Prerequisite: Successful completion of Criminal Justice I with a "C" or better. Criminal Justice II will continue to reinforce and enhance the knowledge and skills learned from Criminal Justice I. In addition, Criminal Law and the Juvenile Justice System will be studied. Students may be provided the opportunity to participate in an internship program with outside agencies by demonstrating the necessary knowledge and desire to succeed in such program. College Credits are also earned during this program through Joliet Junior College. Disclaimer - Dual credit is subject to change based upon revisions made from Joliet Junior College. GAVC has no control over this entity.

### **EARLY CHILDHOOD EDUCATION I (this class is offered at Coal City Early Childhood Center)**

First year students will receive an introduction to child development principles, learning environments, curriculum development, health, safety, and nutrition. They are also introduced to special education topics such as: autism, attention deficit disorder, and inclusions. They will begin learning the components of writing lesson plans for Early Childhood. They are given three different clinical experiences during their first year. Following this training, off-campus sites in the home-school community will be used to provide at least three days per week for observational and practical experiences involving children. Three, two-month practicum experiences will be available for the beginning student. Students must have a current physical with a T.B. skin test, and driver's license. College Credits are also earned during this program through Joliet Junior College. Disclaimer - Dual credit is subject to change based upon revisions made from Joliet Junior College. GAVC has no control over this entity.

### **EARLY CHILDHOOD EDUCATION II (this class is offered at Coal City Early Childhood Center)**

Prerequisite: Successful completion of Early Childhood I, with a C grade or better. The Early Childhood II program is available to those returning seniors who wish to continue exploring the components of education from birth to age eight. Topics discussed throughout the second year include the history and philosophy of early childhood education, child guidance and observation, diversity issues, and portfolio development. They will also learn to write detailed plans as well as discuss common core standards in order to implement those lessons while attending clinical. Students will participate in off-campus clinical experiences in the student's home community by assisting at local public schools, preschools, or childcare facilities. Upon completion of the second year, students will receive three hours of articulation from Joliet Junior College if they attend Joliet Junior College upon graduation from high school. Students must have a current physical with a T.B. skin test, and driver's license. College Credits are also earned during this program through Joliet Junior College. Disclaimer - Dual credit is subject to change based upon revisions made from Joliet Junior College. GAVC has no control over this entity.

For more information on dual credit agreements with Joliet Junior College, please visit: <http://www.jjc.edu/academics/registration/dual-credit/Pages/default.aspx> and select Wilco Area Career Center as the school of participation. Agreements may change from time of publication based on program and instructor requirements. Students are responsible for applying and completing all requirements for course registration, ie COMPASS testing and submission of ACT/COMPASS scores.



The Wilco Area Career Center provides equal employment opportunities for all persons, and equal educational opportunities for all students, without regard to race, color, religion, creed, national origin, gender, age, ancestry, physical or mental handicap or disability, or other characteristics protected by law.