

# **CURRICULUM PLANNER**

**2015-2016**



**Frankton High School**

***Frankton-Lapel Schools***

*Dear Students and Parents:*

*The purpose of Frankton-Lapel Schools is to provide an environment that teaches all students how to be learners, decision makers, and responsible contributors to society. Students learn academic skill through educational opportunities and participation in challenging activities.*

*The curriculum offered at Frankton Junior-Senior High School reflects this philosophy by offering a course of study for college preparation and technology preparation programs.*

*Students should develop a plan of study with guidance counselors that reflects their career and educational goals. This curriculum planner provides information about state and local requirements for graduation, course offerings, and descriptions of courses at the high school level. Guidance counselors, teachers, and administrators are available to assist all students and their parents in developing four-year educational plans.*

*Greg Granger, Principal*

*Patricia Catt, Guidance Director*

*Bryan Granger, Guidance Counselor*

## TABLE OF CONTENTS

Graduation Requirements, Classification .....	4-6
Language Arts .....	7-12
Mathematics .....	13-15
Science .....	16-18
Social Studies .....	19-21
World Languages .....	22-23
Business .....	24-25
Industrial Technology .....	26-27
Family and Consumer Sciences .....	28-29
Art .....	30-32
Music .....	33-34
Health and Physical Education .....	35-36
Multidisciplinary .....	37
Agriculture Education .....	38-39
Four-Year Education Plans .....	40-42
Hinds Career Center .....	appendix
AHS D26 Career Campus .....	appendix

## Class of 2016 and beyond

<b>Indiana General High School Diploma</b>	
<b>Course and Credit Requirements</b>	
<b>English / Language Arts</b>	<p><b>8 credits</b></p> <p>Credits must include literature, composition and speech</p>
<b>Mathematics</b>	<p><b>4 credits</b></p> <p>2 credits: Algebra I 2 credits: Any math course</p> <p><i>General diploma students are required to earn 2 credits in a Math or a Quantitative Reasoning (QR) course during their junior or senior year. QR courses do not count as math credits.</i></p>
<b>Science</b>	<p><b>4 credits</b></p> <p>2 credits: Biology I 2 credits: Any science course</p> <p><i>At least one credit must be from a Physical Science or Earth and Space Science course</i></p>
<b>Social Studies</b>	<p><b>4 credits</b></p> <p>2 credits: U.S. History 1 credit: U.S. Government 1 credit: Any social studies course</p>
<b>Physical Education</b>	<b>2 credits</b>
<b>Health and Wellness</b>	<b>1 credit</b>
<b>College and Career Pathway Courses</b> Selecting electives in a deliberate manner to take full advantage of college and career exploration and preparation opportunities	<b>6 credits</b>
<b>Flex Credit</b>	<p><b>5 credits</b></p> <p>Flex Credits must come from one of the following:</p> <ul style="list-style-type: none"> <li>• Additional elective courses in a College and Career Pathway</li> <li>• Courses involving workplace learning such as Cooperative Education or Internship courses</li> <li>• High school/college dual credit courses</li> <li>• Additional courses in Language Arts, Social Studies, Mathematics, Science, World Languages or Fine Arts</li> </ul>

<b>Electives</b>	<b>8 credits</b> Specifies the minimum number of electives required by the state. High school schedules provide time for many more elective credits during the high school years.
<b>42 Total Credits Required</b>	

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

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

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

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

- Complete all requirements for Core 40.
- Earn 2 additional Core 40 math credits.
- Earn 6-8 Core 40 world language credits (6 credits in one language or 4 credits each in two languages).
- Earn 2 Core 40 fine arts credits.
- Earn a grade of a “C-” or better in courses that will count toward the diploma.
- Have a grade point average of a 3.0 or better.
- Complete one of the following:
  - A. Earn 4 credits in 2 or more AP courses and take corresponding AP exams
  - B. Earn 6 verifiable transcribed college credits in dual credit courses from priority course list
  - C. Earn two of the following:
    1. A minimum of 3 verifiable transcribed college credits from the priority course list,
    2. 2 credits in AP courses and corresponding AP exams,
  - D. Earn a combined score of 1750 or higher on the SAT critical reading, mathematics and writing sections and a minimum score of 530 on each
  - E. Earn an ACT composite score of 26 or higher and complete written section

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

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

- Complete all requirements for Core 40.
- Earn 6 credits in the college and career preparation courses in a state-approved College & Career Pathway and one of the following:
  1. Pathway designated industry-based certification or credential, or
  2. Pathway dual credits from the lists of priority courses resulting in 6 transcribed college credits
- Earn a grade of “C-” or better in courses that will count toward the diploma.
- Have a grade point average of a 3.0 or better.
- Complete one of the following,
  - A. Any one of the options (A - F) of the Core 40 with Academic Honors
  - B. Earn the following scores or higher on WorkKeys; Reading for Information – Level 6, Applied Mathematics – Level 6, and Locating Information-Level 5.
  - C. Earn the following minimum score(s) on Accuplacer: Writing 80, Reading 90, Math 75.
  - D. Earn the following minimum score(s) on Compass; Algebra 66, Writing 70, Reading 80.

Course: English 9 1002  
Credit: 2 credits  
Grade: 9  
Prerequisite: None  
Description: Through the integrated study of literature, composition, and oral communication, English 9 students further develop their use of language as a tool for learning and thinking. Students practice identifying, analyzing, and composing with different elements, structures, and genres of written language. Students will read and comprehend a broad variety of literature applying appropriate reading strategies to enhance reading skills and literary appreciation. Students will write for various audiences and purposes while strengthening skills in paragraph and multi-paragraph writing. Using technology, students receive instruction and practice in the writing process. Oral communication should incorporate correct grammar, usage, vocabulary, reading, and composition skills.  
\*Core 40 and AHD

Course: English 9 – Honors 1002  
Credit: 2 credits  
Grade: 9  
Prerequisite: Recommendation by teacher  
Description: Through the integrated study, higher level analysis, and questioning of literature, composition, and oral communication, English 9 Honors students further develop their use of language. Students practice identifying, analyzing, and composing with different elements, structures, and genres of written language. Students will read and comprehend a broad variety of literature applying appropriate reading strategies to enhance reading skills and literary appreciation. Several required readings will be completed along with reading for personal enjoyment. Students will write for various audiences and purposes while strengthening skills in paragraph and multi-paragraph writing. Using technology, students receive instruction and practice in the writing process. Oral and written communication will incorporate correct grammar, usage, vocabulary, reading, and composition skills.  
\*Core 40 and AHD

Course: English 10 1004  
Credit: 2 credits  
Grade: 10  
Prerequisite: English 9  
Description: English 10 reinforces and continues to make full use of many of the activities and skills of English 9. English 10 adds the following emphasis: (1) consideration of a variety of genres of literature; and (2) increased focus on the self-conscious choice of comprehension and writing strategies. Students will respond critically, reflectively, and imaginatively to literature from various periods. Students will identify and employ various elements of good writing in well organized descriptive, expository, and narrative writings. Students will use the basic modes of oral and written expression through the development of effective descriptive and narrative procedures, including focus and logical organization of ideas. \*Core 40 and AHD

Course: English 10 – Honors 1004  
Credit: 2 credits  
Grade: 10  
Prerequisite: Recommendation by teacher  
Description: Students in English 10 Honors will use higher level analysis and questioning to reinforce and continue to make full use of many of the activities and skills of English 9. English 10 Honors adds the following emphasis: (1) consideration of a variety of genres of literature including world literature; and (2) increased focus on the self-conscious choice of comprehension and writing strategies. Students will respond critically, reflectively, and imaginatively to literature from various periods. Students will identify and employ various elements of good writing in well organized descriptive, expository, and narrative writings. Required and outside readings will build a knowledge base suitable for honors students. Students will use the basic modes of oral and written expression through the development of effective descriptive and narrative procedures, including focus and logical organization of ideas. Students will study and implement research strategies for written and oral expression. A vigorous study of word origins will encourage vocabulary acquisition.  
\*Core 40 and AHD

Course: English 11 1006  
Credit: 2 credits  
Grade: 11  
Prerequisite: English 9 and 10  
Description: English 11 students further develop their use of language as a tool for learning and thinking. In English 11, students move from predominantly analyzing and using the elements of written language to making judgments based on those analyses. This course incorporates a canon of American Literature, covering historical periods different from that of the student. Composition in grade 11 continues to refine students' abilities to articulate sophisticated ideas in an organized manner. Increased sensitivity to context helps students better communicate their thoughts. The formal study of grammar, usage, spelling, and language mechanics is integrated into the study of writing. Grade 11 increasingly calls attention to the contexts in which oral communication takes place.  
\*Core 40 and AHD

Course: English Language and Composition, Advanced Placement 1056  
Credit: 2 credits  
Grade: 11  
Prerequisite: High grades in general  
Description: The English Language and Composition, Advanced Placement is a course based on the content established by the College Board. Students enrolled in English Language and Composition become skilled readers of prose written in a variety of period, disciplines, and rhetorical contexts. They become skilled writers who write in a variety of forms – narrative, exploratory, expository, argumentative and on a variety of subjects. Inclusion of British and world literature will be studied to form a solid background for the college bound student. Research methods will be studied to develop essays and oral presentations.  
\*Core 40 and AHD

- Course: English Language and Composition, Ivy Tech 111 1006  
 Credit: 2 credits  
 Grade: 11  
 Prerequisite: High grades in general  
 Description: The English Language and Composition, dual credit, is a course based on the content established by Ivy Tech. Students enrolled in English Language and Composition become skilled readers of prose written in a variety of period, disciplines, and rhetorical contexts. They become skilled writers who write in a variety of forms – narrative, exploratory, expository, argumentative and on a variety of subjects. Inclusion of British and world literature will be studied to form a solid background for the college bound student. Research methods will be studied to develop essays and oral presentations.  
 \*Core 40 and AHD
- Course: English 12 1008  
 Credit: 2 credits  
 Grade: 12  
 Prerequisite: English 9, 10, and 11  
 Description: English 12 builds on the skills of English 9-11 continuing the study of language and literature. Students will be expected to critically, reflectively and imaginatively respond to literature of outstanding writers, with concentration on British and world literature, while demonstrating a high level mastery of vocabulary, spelling, grammar usage, and language mechanics. Students will also use technology and all the phases of the writing process to develop a thesis and produce a polished research paper. Oral presentations and debates that are research based and deductively, inductively, causal or analytically defended may be included.  
 \*Core 40 and AHD
- Course: English Literature and Composition, Advanced Placement 1058  
 Credit: 2 credits  
 Grade: 12  
 Prerequisite: High grades in general  
 Description: English Literature and Composition, Advanced Placement is a course based on the content established by the College Board. Students enrolled in English Literature and Composition become skilled readers of prose written in a variety of period, disciplines, and rhetorical contexts. They become skilled writers who write in a variety of forms – narrative, exploratory, expository, argumentative and on a variety of subjects. Inclusion of British and world literature will be studied to form a solid background for the college bound student. Research methods will be studied to develop essays and oral presentations.  
 \*Core 40 and AHD
- Course: English Literature and Composition, Ivy Tech 206 1008  
 Credit: 2 credits  
 Grade: 12  
 Prerequisite: High grades in general  
 Description: English Literature and Composition, dual credit, is a course based on the content established by Ivy Tech. Students enrolled in English Literature and Composition become skilled readers of prose written in a variety of period, disciplines, and rhetorical contexts. They become skilled writers who write in a variety of forms – narrative, exploratory, expository, argumentative and on a variety of subjects. Inclusion of British and world literature will be studied to form a solid background for the college bound student. Research methods will be studied to develop essays and oral presentations. \*Core 40 and AHD

Course: Student Publications 1086  
Credit: 2 credits  
Grade: 11-12  
Prerequisite: Journalism or teacher recommendation  
Description: This course provides the study of and practice in gathering and analyzing information, interviewing, and note taking for the purpose of: writing, editing, publishing for print, and broadcast media, including student publications. This course includes instruction and practice in effective journalistic writing forms and techniques as well as layout, design, and typography. The concept of responsible journalism also is discussed. Students plan, publish, market, and distribute their school publications.

Course: Journalism 1080  
Credit: 2 credits  
Grade: 10 – 12  
Description: Journalism is the study of the gathering, writing, editing, and dissemination of news by various media. Journalism students will learn basic techniques of writing features, hard news, and sport stories, as well as preparation of advertising

Course: Speech 1076  
Credit: 1 credit  
Grade: 10-12  
Description: Speech provides the study of and practice in the basic principles and techniques of effective oral communication. This course includes instruction in adapting speech to different audiences and purposes. Students have the opportunity to present different types of oral presentations including: (1) viewpoint, (2) instructional, (3) demonstration,(4) informative, (5) persuasive, (6) impromptu and (7) entertaining. Students will also study research methods to develop and write speeches.  
\*Core 40 and AHD

Course: Composition 1090  
Credit: 1 credit  
Grade: 10-12  
Prerequisite: None  
Description: Composition provides students with an opportunity to learn to write by writing. Students will have frequent opportunities to write for different audiences and purposes, using a process that includes: prewriting, drafting, peer sharing, revising, editing, and producing a final product. For peer sharing, students receive specific training in providing constructive, substantive feedback, while role-playing as members of the author's target audience. In addition to providing instruction in writing clear, coherent, and organized text, this course will teach strategies for collecting and transforming data for use in writing and using criteria to evaluate and revise writing.  
\*Core 40 and AHD

Course:	Etymology	1060
Credit:	1 credit	
Grade:	10 - 12	
Description:	<p>This is entirely a vocabulary course. Students will learn the Greek and Latin roots of many English words, which will enable them to derive the meanings of words they do not know. Special emphasis will also be given to words commonly given on the SAT verbal section.</p> <p>*Core 40 and AHD</p>	
Course:	Novels	1042
Credit:	1 credit	
Grade:	10-12	
Description:	<p>Novels are contrasted with other literary genres, in particular other narrative genres, such as the short story, epic, romance, and biography. Students also explore the distinct features of the novel, for example: (1) that is narrative and fictional, and (2) that it has setting, conflict, climax and resolution. Opportunities to write about and discuss the novel are elements of the course.</p> <p>*Core 40 and AHD</p>	
Course:	Themes in Literature	1048
Credit:	1 credit	
Grade:	10-12	
Description:	<p>Themes in literature is a study of universal themes, such as the journey of the hero, the trials of youth, the search for identity, and other themes appropriate to the level and interest of the students. This course examines how themes are treated by writers in different literary genres and time periods. Writing and oral exercises will help students become sensitive to and articulate thematic variations that occur because of genre or cultural context. Representative works by authors of diverse eras and nationalities are included so that the students may gain knowledge of humanity's struggle to understand the human condition.</p> <p>*Core 40 and AHD</p>	
Course:	Creative Writing	1092
Credit:	1 credit	
Grade:	10-12	
Description:	<p>Creative Writing is a study and application of the rhetorical writing strategies for prose and poetry. Using the writing process, students demonstrate a command of vocabulary, the nuances of language and vocabulary, English language conventions, an awareness of the audience, the purposes for writing, and the style of their own writing.</p> <p>*Core 40 and AHD</p>	
Course:	Short Stories	1046
Credit:	1 credit	
Grade:	10-12	
Description:	<p>Short Stories is a study of the distinct features of the short story, such as being tightly focused narrative fiction. The course may be organized by historical periods, themes, or authors. Students analyze what distinguishes the short story genre from other literary genres, such as the novel, epic, romance, biography, and others.</p> <p>*Core 40 and AHD</p>	

- Course: Twentieth-Century Literature 1050  
Credit: 1 credit  
Grade: 10-12  
Description: This course is a study of twentieth-century literature in the United States, the British Isles, and Europe with a focus on major works and writers in the Modern Period, the Harlem Renaissance, Early Contemporary Literature and Contemporary Literature from a chronological or thematic perspective. Students analyze how the writers and their works either reflected or influenced the issues of the time.  
\*Core 40 and AHD
- Course: Film Literature 1034  
Credit: 1 credit  
Grade: 11-12  
Description: This course is a study of how literature is adapted for film or media and includes role playing as film directors for selected screen scenes. Students read about the history of film, the reflection or influence of film on the culture, and issues or interpretation, production and adaptation.  
\*Core 40 and AHD

## MATHEMATICS

- Course: Algebra I 2520  
Credit: 2 credits  
Grade: 8-12  
Description: Algebra I is an introductory course in a new field of mathematics, the main purpose of which is to learn how to solve problems by means of equations. The course includes the study of the four fundamental operations with rational numbers (including negatives), a study of set theory, the graphing of equations having two variables, and many other operations. Stress is put on the application of Algebra in science and higher mathematics.  
\*Core 40 and AHD.
- Course: Geometry 2532  
Credits: 2 credits  
Grade: 9-12  
Prerequisite: Algebra I  
Description: Geometry provides students with experiences that deepen the understanding of shapes and their properties. Deductive and inductive reasoning as well as investigative strategies in drawing conclusions are stressed. Properties and relationships of geometric figures are included as well as the study of angle, lines, planes, congruent and similar triangles, trigonometric ratios, polygons and circles and spatial drawings. An understanding of proof and logic is developed.  
\*Core 40 and AHD
- Course: Algebra II 2522  
Credits: 2 credits  
Grade: 9-12  
Prerequisite: Algebra I, (Geometry is recommended)  
Description: Algebra II is a continuation and expansion on the topics of Algebra I. Expanded topics include theorems and algorithms of algebra, polynomials and polynomial functions, rational exponents, complex numbers, sequences and series, properties and graphics of conic sections, permutations and combinations, matrices, exponential and logarithmic functions.  
\*Core 40 and AHD
- Course: Pre-Calculus 2552  
Credits: 2 credits  
Grade: 11-12  
Prerequisite: Algebra I, Algebra II, and Geometry  
Description: Pre-Calculus blends together all the concepts and skills that must be mastered prior to enrollment in a college level calculus course. A functional approach provides for the integration of all the concepts listed for the course in Trigonometry plus: (1) the relationship of equations and graphs of linear, quadratic, and parametric equations (2) translation of axes and (3) locus and vectors. This course includes the theory of equations, exponential and logarithmic functions, matrices, and determinants.  
\*Core 40 and AHD

Course:	Pre-Calculus, Ivy Tech 136/137	2564
Credits:	2 credits	
Grade:	11-12	
Prerequisite:	Algebra I, Algebra II, and Geometry	
Description:	Pre-Calculus blends together all the concepts and skills that must be mastered prior to enrollment in a college level calculus course. A functional approach provides for the integration of all the concepts listed for the course in Trigonometry plus: (1) the relationship of equations and graphs of linear, quadratic, and parametric equations (2) translation of axes and (3) locus and vectors. This course includes the theory of equations, exponential and logarithmic functions, matrices, and determinants. *Core 40 and AHD	
Course:	Calculus, AB	2562
Credit:	2 credits	
Grade:	12	
Prerequisite:	Algebra I, Algebra II, Geometry, Pre-Calculus	
Exam:	This course will cover the College Entrance Examination Board's AP syllabus in Advanced Placement Calculus. Topics covered include properties of functions; limits; different calculus and its applications; and, integral calculus and its applications. *Core 40 and AHD	
Course:	Calculus, Ivy Tech 211	2562
Credit:	2 credits	
Grade:	12	
Prerequisite:	Algebra I, Algebra II, Geometry, Pre-Calculus	
Exam:	This course will cover the Ivy Tech syllabus in Calculus. Topics covered include properties of functions; limits; different calculus and its applications; and, integral calculus and its applications. *Core 40 and AHD	
Course:	Probability and Statistics	2546
Credit:	1 credit	
Grade:	11 or 12	
Prerequisite:	Algebra II	
Description:	This course includes the concepts and skills needed to apply statistical techniques in the decision-making process. Topics include: (1) descriptive statistics, (2) probability, and (3) statistical inference. Students plan and conduct experiments or surveys and analyze the resulting data. *Core 40 and AHD	
Course:	Finite Math	2530
Credit:	2 credits	
Grade:	11 or 12	
Prerequisite:	Algebra II	
Description:	Finite Math is an umbrella of mathematical topics. It is a course designed for students who will undertake higher-level math in college that may not include calculus. Topics include counting techniques, matrices, and recursion. *Core 40 and AHD	

Course: Algebra Enrichment

2510

Credit: 2 credits

Grade: 9- 12

Description: Algebra Enrichment provides students with individualized instruction designed to reinforce topics that are covered in Algebra I class. Students will take this class concurrently with Algebra I to prepare them to successfully pass the End of Course Assessment. This course counts as math credit for General diploma and elective credit for Core 40.

\*Core 40 and AHD

## SCIENCE

Course: Integrated Chemistry-Physics 3108  
Credit: 2 credits  
Grade: 9-12  
Prerequisite: Algebra I (may be taken concurrently with this course)  
Description: This is a laboratory-based course in which students explore fundamental chemistry and physics principles. Students examine the structure and properties of matter, chemical reactions, forces, motion, and the interactions between energy and matter. Students work in the laboratory to investigate the basics of chemistry and physics in solving real-world problems.  
*\*Core 40 and AHD Physical Science , Quantitative Reasoning*

Course: Biology I 3024  
Credit: 2 credits  
Grade: 9-12  
Prerequisite: None  
Description: Biology through labs and field experiences is the study of structures and living organisms and their interaction with the environment. Students will study cells, tissues, organs, systems with in living organisms, and interdependence of organisms within populations, communities, ecosystems and the biosphere.  
*\*Core 40 and AHD Life Science*

Course: Biology II 3026  
Credit: 2 credits  
Grade: 10-12  
Prerequisite: Biology I  
Description: Biology II is an in-depth study of life, biology, botany, genetics, microbiology, and ecology. A fetal pig will be dissected as we study the anatomy of a common mammal.  
*\*Core 40 and AHD Life Science*

Course: Chemistry I 3064  
Credit: 2 credits  
Grade: 10-12  
Prerequisite: Algebra I  
Description: This course allows students to synthesize useful models of the structure of matter and the mechanisms of its interactions through the laboratory investigations of matter and its chemical reactions. Students learn chemistry history, chemistry based career paths, lab safety and how chemistry relates to them personally.  
*\*Core 40 and AHD Physical Science, Quantitative Reasoning*

Course:	Chemistry, Indiana University 105/106	3066
Credit:	2 credits	
Grade:	12	
Prerequisite:	Chemistry I, Algebra II, Math SAT score of 570	
Description:	<p>This two-semester course is an in-depth examination of concepts such as atomic structure, chemical bonding, kinetics, acid-base equilibrium, electrochemistry, thermodynamics, and organic chemistry. It also involves Internet-based homework assignments and numerous laboratory experiences to supplement and reinforce the topics covered. This course can be taken for high school credit only or it can be taken for both high school credit and college credit. It is primarily for students with a strong science aptitude.</p> <p><i>*Core 40 and AHD Physical Science, Quantitative Reasoning</i></p>	
Course:	Chemistry, Advanced Placement	3060
Credit:	2 credits	
Grade:	12	
Prerequisite:	Chemistry I, Algebra II, Pre-calculus	
Description:	<p>This two-semester course is an in-depth examination of concepts such as atomic structure, chemical bonding, kinetics, acid-base equilibrium, electrochemistry, thermodynamics, and organic chemistry. It also involves Internet-based homework assignments and numerous laboratory experiences to supplement and reinforce the topics covered. It is primarily for students with a strong science aptitude.</p> <p><i>*Core 40 and AHD Physical Science, Quantitative Reasoning</i></p>	
Course:	Physics I	3084
Credit:	2 credits	
Grade:	11-12	
Prerequisite:	Algebra I	
Description:	<p>Physics aids students in synthesizing the fundamental concepts and principals concerning matter and energy through the lab study of mechanics, wave motion, heat, light, electricity, magnetism, electromagnetism, and atomic and nuclear physics. Students will acquire an awareness of the history of physics, explore its uses of models, theories and laws in various careers, and cope with physical questions and problems related to personal needs an social issues.</p> <p><i>*Core 40 and AHD Physical Science, Quantitative Reasoning</i></p>	
Course:	Earth and Space Science I	3044
Credit:	2 credits	
Grade:	9-12	
Description:	<p>This is a course focusing on the study of earth's lithosphere, atmosphere, hydrosphere, and its celestial environment. Students analyze and describe Earth's interconnected systems that may be changing or may be in equilibrium. Students examine energy at work in forming and modifying earth materials, landforms, and continents through geological time.</p> <p><i>*Core 40 and AHD</i></p>	

Course: Biology AP 3020  
Credit: 2 credits  
Grade: 11-12  
Prerequisites: Biology I and Chemistry I  
Description: This is a course that is the equivalent of an introductory college biology course for majors. The content of this course has been established by the College Board. Topics include: molecules and cells, heredity and evolution, organisms and populations.  
\*Core 40 and AHD, *Quantitative Reasoning*

Course: Environmental Science 3010  
Credit: 2 credits  
Grade: 11-12  
Prerequisites: Two credits in Core 40 science coursework  
Description: This is a course that includes concepts from biology, Earth science, chemistry and other disciplines. Students will study ecosystems, population dynamics, resource management, and environmental consequences. Students will also design and carry out laboratory and field investigations to better understand the environment as a whole.  
\*Core 40 and AHD

Course: Anatomy & Physiology 5276  
Credit: 2 credits  
Grade: 11-12  
Prerequisites: Two credits in Core 40 science coursework  
Description: Anatomy and Physiology is an in-depth study of the functions and processes of the human body. Students will understand the structure, organization, and function of the various components of the healthy human body in order to apply this knowledge in all health-related fields. Students will study the process of homeostasis and the essentials of human function at the level of genes, cells, tissues, and organ systems. Various animal dissections are required.  
\*Core 40 and AHD

## SOCIAL STUDIES

- Course: Geography/History of the World 1546  
Credit: 1 credit per semester  
Grade: 9-12  
Description: World Geography provides an opportunity to study the interaction of humans and their environment in space and time. This course helps students understand global patterns of physical and cultural characteristics including: Earth-sun relationships, atmospheric and oceanic circulation, land forms, climate, population, transportation, communication, economic linkages, and cultural diffusion. Students will study cultural settings including political structures, ways of life, customs, and past events. These studies focus upon the relationships among regions and exemplify important geographic concepts and problems.  
\*Core 40 and AHD
- Course: World History/Civilization 1548  
Credit: 1 credit per semester  
Grade: 9-12  
Description: World History and Civilization provides for a study of selected world cultures, past and present. The content of this course provides a basis for students to compare and analyze patterns of culture, emphasizing both the diversity and commonality of human experience and behavior. This course emphasized the interaction of local cultures with the natural environment, as well as the connections among civilizations from earliest times to the present.  
\*Core 40 and AHD
- Course: World History, Advanced Placement 1576  
Credit: 2 credits  
Grade: 10-12  
Description: World History, AP is a course which is designed to foster an appreciation of the evolution of global processes and contacts within different types of human societies. This course emphasizes factual knowledge, interpretive issues, and skills in analyzing types of historical evidence through topics ranging from the foundational periods and the classical civilizations of the ancient world to the impact of the growth of technology on an increasingly shrinking globalized world. This course also emphasizes skills in reasoned thinking, discussion, and writing.  
\*Core 40 and AHD
- Course: U.S. History 1542  
Credit: 2 credits  
Grade: 11-12  
Description: This course emphasizes significant events, figures, and movements in American history. The interaction of historical events and geographic, social, and economic influences on national development is studied. Students will be able to sequence historical events, examine cause and effect, identify different perspectives, and relate historical situations to current issues. Students exercise their skills as citizens in a democracy by engaging in problem solving and civic decision making in the classroom, school, and community settings.  
\*Core 40 and AHD

Course:	U.S. History, Advanced Placement	1562
Credit:	2 credits	
Grade:	11 or 12	
Description:	<p>Students will examine and analyze the significant events from Exploration through the present. Students will study the evolution of American society: political, economic, social structure, racial and ethnic groups, exploration, colonization, world diplomacy of the United States, territorial expansion, industrialization, international events and their impact on American History. Maps, political cartoons and a variety of other graphic materials will be interpreted, with an emphasis on development of reasoning and writing skills.</p> <p>*Core 40 and AHD</p>	
Course:	U.S. History, Indiana University 105/106 or Ivy Tech 101/102	1542
Credit:	2 credits	
Grade:	11 or 12	
Description:	<p>Students will examine and analyze the significant events from Exploration through the present. Students will study the evolution of American society: political, economic, social structure, racial and ethnic groups, exploration, colonization, world diplomacy of the United States, territorial expansion, industrialization, international events and their impact on American History. Maps, political cartoons and a variety of other graphic materials will be interpreted, with an emphasis on development of reasoning and writing skills.</p> <p>*Core 40 and AHD</p>	
Course:	U. S. Government	1540
Credit:	1 credit	
Grade:	12	
Description:	<p>Students in U.S. Government learn the importance of responsible civic participation and the rights and responsibilities of individuals living in a constitutional democracy. Students will study the evolution of political systems, including the various branches of state, local, and national government. They will learn the interrelationships of history, geography, and economics upon our system of government. Students will analyze political issues using current research technology.</p> <p>*Core 40 and AHD</p>	
Course:	U.S. Government and Politics, Advanced Placement	1560
Credit:	1 credit	
Grade:	12	
Description:	<p>U.S. Government, AP is a course which focuses on an in-depth and critical exploration of the political theory and everyday practice that direct the daily operation of our government and shape our public policies. Emphasizing skills in reasoned thinking, deliberation, and writing, this course centers on topics ranging from the constitutional foundations of the country to the formation of political beliefs to the evolution of each citizen's civil rights and liberties.</p>	

Course: U.S. Government and Politics, Ivy Tech 101 1540  
Credit: 1 credit  
Grade: 12  
Description: U.S. Government, dual credit, is a course which focuses on an in-depth and critical exploration of the political theory and everyday practice that direct the daily operation of our government and shape our public policies. Emphasizing skills in reasoned thinking, deliberation, and writing, this course centers on topics ranging from the constitutional foundations of the country to the formation of political beliefs to the evolution of each citizen's civil rights and liberties.

Course: Economics 1514  
Credit: 1 credit  
Grade: 12  
Description: Economics includes a study of the allocation of scarce resources and their alternative uses for satisfying human wants. This course examines basic models of decision making at various levels and in different areas including: (1) decisions made as a consumer, producer, saver, investor, and voter; (2) business decisions to maximize profits; and (3) public policy decisions in specific markets dealing with output and prices in the national economy.  
\*Core 40 and AHD, *Quantitative Reasoning*

Course: Psychology 1532  
Credit: 1 credit  
Grade: 11 or 12  
Description: Psychology provides an opportunity to study individual and social psychology and how the knowledge and methods of psychologists are applied to the solution of human problems. Content for the course includes some insights into behavior patterns and adjustments to social environments. The course should develop critical attitudes toward superficial generalizations about human beings, respect for the difficulty of establishing the truth of a proposition, and a heightened sensitivity to the feelings and needs of others.  
\*Core 40 and AHD

## WORLD LANGUAGES

- Course: Spanish I 2120  
Credit: 2 credits  
Grade: 9-12  
Description: Students in Level I Spanish will be provided with instruction that will allow students to develop strategies for language learning. Students will be able to respond to and give basic oral and written directions and commands, learn to address others appropriately, ask and answer simple questions, and be involved in brief conversations. Students will read short narrative texts, and write familiar words and phrases in appropriate contexts and respond in writing. Students will also learn and experience understanding of cultural aspects such as holidays, body language differences, etiquette, and cultural events, and courtesy behaviors.  
\*Core 40 and AHD
- Course: Spanish II 2122  
Credit: 2 credits  
Grade: 10-12  
Prerequisite: Spanish I (C average)  
Description: The course is designed to further build the student's foundation to communicate his/her activities, preferences, and daily needs. Students will be able read aloud with appropriate notation and punctuation. Students learn to respond in writing to different situations. Students will participate in cultural activities designed to enrich his/her understanding of the culture, such as art, literature, music and architecture. The student should expect to participate in Spanish language conversations on a variety of topics.  
\*Core 40 and AHD
- Course: Spanish III 2124  
Credit: 2 credits  
Grade: 11-12  
Prerequisite: Spanish I, II (C average)  
Description: As an advanced student in the study of Spanish, the student will encounter more important uses of the language. The student is expected to follow classroom instructions and activities entirely held in Spanish. His/her responses and participation are to be entirely in Spanish. Students will be able to read and comprehend Spanish from a variety of sources such as magazines, newspapers, and other literary works. Students will be able to ask and answer questions and interact in a variety of social situations. Students will learn aspects of cultures such as political structures, historical events, and humanities.  
\*Core 40 and AHD
- Course: Spanish IV 2126  
Credit: 2 credits  
Grade: 12  
Prerequisite: Spanish I, II, III (C average)  
Description: This is a course based on content established by the College Board. Emphasizing the use of the Spanish language for active communication, this course has as its objective the development of advanced listening comprehension, reading without the use of a dictionary, expanded conversational skills, fluent and accurate written expression, and strong command of vocabulary and structure of the Spanish language. \*Core 40 and AHD

Course: Spanish Language, Advanced Placement

2132

Credit: 2 credits

Grade: 12

Prerequisite: Spanish I, II, III (C average)

Description: This is a course based on content established by the College Board. Emphasizing the use of the Spanish language for active communication, this course has as its objective the development of advanced listening comprehension, reading without the use of a dictionary, expanded conversational skills, fluent and accurate written expression, and strong command of vocabulary and structure of the Spanish language. \*Core 40 and AHD

## BUSINESS

- Course: Business Foundations 4518  
Credit: 1 or 2 credits  
Grade: 9 - 12  
Prerequisite: None  
Description: This course is designed to give the student a background in the area of how our business system operates to satisfy our needs and wants and to further an understanding of the importance of money and banks in our business system and of how banking services can be used most effectively. An introduction to credit service and the purchase of insurance is presented, as well as the individual's relationship to the world of work through an evaluation of career opportunities. This course also provides the student an opportunity to become acquainted with information on investing and saving  
\*Core 40 and AHD
- Course: Accounting, Introduction to 4524  
Credit: 2 credits  
Grade: 10-12  
Prerequisite: None  
Description: The purpose of this course is to provide an understanding of business forms as they relate to the recording of expenses and income using double-entry accounting methods. The course also includes an introduction to basic computerized accounting.  
\*Core 40 and AHD, *Quantitative Reasoning*
- Course: Accounting, Advanced 4524  
Credit: 2 credits  
Grade: 11-12  
Prerequisite: Introduction to Accounting  
Description: The purpose of this course is to expand on the Generally Accepted Accounting Principles and procedures for proprietorships and partnerships using double-entry accounting covered in Introduction to Accounting. Emphasis is placed on accounting principles as they relate to both manual and automated financial systems.  
\*Core 40 and AHD, *Quantitative Reasoning*
- Course: Digital Citizenship 4530  
Credit: 1 credit  
Grade: 8-12  
Prerequisite: Digital Communication Tools  
Description: In this course students will learn spreadsheet concepts along with a more in-depth study of word processing. Students will concentrate on Microsoft Excel and Publisher.  
\*Core 40 and AHD

Course: Web Design 4574  
Credit: 2 credits  
Grade: 10-12  
Prerequisite: Digital Citizenship  
Description: Students learn construction, maintenance, and enhancement of homepages including planning and improvement to existing homepages or creating new sections of homepages using new applications. Dreamweaver is used, along with concepts learned from Photoshop/Flash in Desktop Publishing.  
\*Core 40 and AHD

Course: Business Math 4512  
Credit: 2 credits  
Grade: 9-12  
Description: Business Math is a business course designed to develop the ability to solve real world problems in order to become productive citizens and workers in a technological society. Areas of study to be included are number relationships and operations; patterns and algebra; measurements; and statistics and probability. Problem-solving applications will be used to analyze and solve business problems for such areas as taxation; savings and investments; payroll records; cash management; financial statements; purchases; sales; inventory records; and depreciation.  
\*Core 40 and AHD elective, may fulfill 2 credits of the minimum Math requirement for graduation, *Quantitative Reasoning*

Course: Personal Financial Responsibility 4540  
Credit: 1 credit  
Grade: 9-12  
Description: This course helps students build skills in financial responsibility and decision making; analyze personal standards, needs, and wants, and goals, identify sources of income, saving and investing; understanding banking, budgeting, record-keeping and managing risk, insurance and credit card debt.

## **INDUSTRIAL TECHNOLOGY**

- Course: Introduction to Manufacturing 4784  
Credit: 2 credits  
Grade: 9 – 12  
Prerequisite: None  
Description: This course provides students with an introduction to manufacturing industry practices and their relationships with society, individuals, and the environment. Students will build products using wood.  
\*Core 40 and AHD
- Course: Introduction to Construction 4792  
Credit: 2 credits  
Grade: 9 – 12  
Prerequisite: None  
Description: This course provides students with an overview of the practices used to construct structures from approved plans. Emphasis is placed on construction processes and materials used to produce residential, commercial, industrial, and civil structures. Students work in teams on construction projects.  
\*Core 40 and AHD
- Course: Introduction to Transportation 4798  
Credit: 2 credits  
Grade: 9 – 12  
Prerequisite: None  
Description: In this course students study sources of energy as used in the transportation industry. Emphasis is placed on methods of controlling, converting, and transmitting energy; and using energy systems. Students create models applying their knowledge of energy to move products.  
\*Core 40 and AHD
- Course: Introduction to Communication 4790  
Credit: 2 credits  
Grade: 9-12  
Prerequisite: None  
Description: This course explores and provides an overview of communication technology; the way it has evolved, how technical drawings are designed and produced. Students will deal with advanced technical drawing skills and will be introduced to CAD.  
\*Core 40 and AHD
- Course: Introduction to Design Processes 4794  
Credit: 1 credit  
Grade: 10 – 12  
Prerequisite: Introduction to Communication  
Description: Introduction to Design Processes is a course that explores technological processes and employs CAD in developing, engineering, testing, and communicating designs for products, structures, and systems. Students will participate in design activities using critical thinking skills that require them to: identify problems; generate alternative solutions; select and refine the most plausible solution; develop specifications for the solution; model and test the solution; and present the final solution for approval. Students use AUTOCAD software in this class.  
\*Core 40 and AHD

Course: Introduction to Advanced Manufacturing /Logistics

4796

Credit: 2 credits

Grade: 11 – 12

Prerequisite: None

Description: *Introduction to Advanced Manufacturing and Logistics* introduces students to the technology, skills, and knowledge needed in today's modern, high-tech, advanced manufacturing and logistics environments. Using the Hire Technology curriculum, which was developed by Indiana industry members, students will gain a working knowledge of safety, quality, and production processes, and will apply their new skills and knowledge in classroom projects. Emphasis is placed on understanding manufacturing and logistics processes as a whole. In addition, students will gain a basic understanding of computer-numerical control devices, electrical skills, operations processes, inventory principles, and basic business principles. Students have the opportunity to develop the characteristics employers seek, earn nationally-recognized industry certificates, and get college credit. \*Core 40 and AHD

## **FAMILY AND CONSUMER SCIENCES**

- Course: Interpersonal Relationships 5364  
Credit: 1 credit  
Grade: 10 – 12  
Description: This course addresses the knowledge, skills, attitudes, and behaviors students need to participate in positive, caring, and respectful relationships in the family, at school, in the workplace and in the community. Topics include: establishing and maintaining healthy relationships, factors that impact relationships, (i.e. power, interest, peer pressure, life events), techniques for establishing effective communication, leadership and teamwork, as well as other related issues.  
\*Core 40 and AHD
- Course: Nutrition and Wellness 5342  
Credit: 1 credit  
Grade: 9-12  
Description: This course includes daily nutrition and wellness practices, selection and preparation of nutritious meals and snacks, safety, sanitation, and storage, as well as the impact of science and technology of nutrition and wellness.  
\*Core 40 and AHD
- Course: Advanced Nutrition and Wellness 5340  
Credit: 1 credit  
Grade: 10-12  
Prerequisite: Nutrition and Wellness  
Description: Topics in this course include: nutrition and wellness for individuals and families across the life span; community and world food concerns, including hunger; impacts of technology on nutrition, foods, and related tools and equipment; management of food-related resources; acquiring, organizing, and evaluating information about foods and nutrition; and exploration of careers in all aspects of the food industry. Laboratory experiences will emphasize advanced applications.  
\*Core 40 and AHD
- Course: Introduction to Housing and Interiors 5350  
Credit: 1 credit  
Grade: 9 – 12  
Description: Students will examine, select and plan living environments to meet the needs and wants of individuals and families throughout their life cycle. Topics include economics, social, cultural, technological advances, environmental needs and problems, home maintenance and aesthetic factors.  
\*Core 40 and AHD
- Course: Preparing for College and Careers 5394  
Credit: 1 credit  
Grade: 9 – 12  
Description: This course addresses essential knowledge, skills, and behaviors all students need to succeed in college, career, and life. A project-based approach that utilizes higher order thinking, communication, leadership, and management processes is recommended in order to integrate suggested topics into the study of life and careers. This course includes reviewing the 16 national career clusters and Indiana's College and Career pathways. Students will develop personal and career portfolios.  
\*Core 40 and AHD

Course: Child Development and Parenting

5362

Credit: 1 credit

Grade: 9-12

Description: This course addresses the knowledge, skills, attitudes and behaviors associated with supporting and promoting optimal growth and development of infants and children. Topics include pregnancy, prenatal development, preparation for birth and birth process, and the growth process from birth to adolescence.

\*Core 40 and AHD

## ART

- Course: Introduction to Two-Dimensional Art 4000  
Credit: 1 credit  
Grade: 9 – 12  
Prerequisite: None  
Description: Students taking Introduction to Two-Dimensional Art will engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production. They will produce portfolio quality works. They will study artwork from various time periods and cultures. They will reflect on their own changing definition of art. Students will produce works of art in a variety of two-dimensional media, including pencil, chalk, watercolor, charcoal, crayon, marker and colored pencil drawings.  
\*Core 40 and AHD
- Course: Introduction to Three-Dimensional Art 4002  
Credit: 1 credit  
Grade: 9 – 12  
Prerequisite: None  
Description: Students taking Three-Dimensional Art will engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production. They will produce portfolio quality works. Students will study artwork from various time periods and cultures. They will reflect on their own changing definition of art. Students will produce works of art in a variety of three-dimensional media, including paper, clay, tag board, and paper machet' sculptures.  
\*Core 40 and AHD
- Course: Advanced 2-Dimensional Art 4004  
Credit: 1 credit (May be taken for successive semesters of instruction at an advanced level)  
Grade: 10-12  
Prerequisite: Intro to 2D Art  
Description: This is a more advanced form of the previous two-dimensional art course. More in-depth studies of art history, art criticism, aesthetics, and production will be encountered. Students will produce portfolio quality artworks in a variety of two-dimensional media, including chalk, calligraphy, Chinese brush work, pen and ink, and pencil.  
\*Core 40 and AHD
- Course: Advanced 3-Dimensional Art 4006  
Credit: 1 credit (May be taken for successive semesters of instruction at an advanced level)  
Grade: 10-12  
Prerequisite: Intro to 3D Art  
Description: This is a more advanced form of the previous three-dimensional art course. More in-depth studies of art history, art criticism, aesthetics, and production will be encountered. Students will produce portfolio quality artworks in a variety of three-dimensional media, including ceramics, paper machete, cut paper, wire and tag board sculptures.  
\*Core 40 and AHD

- Course: Ceramics 4040  
 Credit: 1 credit (May be taken for successive semesters of instruction at an advanced level)  
 Grade: 9 – 12  
 Prerequisite: Intro to 2D Art  
 Description: Students taking Ceramics will identify and critically examine relationships between context, form, and function in historical and contemporary ceramics. Students will create works of art in clay utilizing the processes of hand building, molds, wheel throwing, slip and glaze techniques, and the firing processes. They will reflect upon the outcome of these experiences.  
 \*Core 40 and AHD
- Course: Drawing 4060  
 Credit: 1 credit per semester (May be taken for successive semesters of instruction at an advanced level)  
 Grade: 9 – 12  
 Prerequisite: Intro to 2D Art  
 Description: Students taking Drawing will identify relationships between context, form, and function in historical and contemporary drawings. They will examine and evaluate these drawings. Students will create drawings in a variety of media that demonstrate a sincere desire to explore a variety of ideas. The media includes pencil, pen and ink, charcoal, chalk, marker and colored pencil.  
 \*Core 40 and AHD
- Course: Painting 4064  
 Credit: 1 credit (May be taken for successive semesters of instruction at an advanced level)  
 Grade: 9 – 12  
 Prerequisites: Intro to 2D Art  
 Description: Students in Painting will create abstract and realistic paintings using a variety of materials such as mixed media, watercolor, oil, and acrylics. They will reflect on the outcome of these experiences and explore historical connections. Students will explore the relationships between context, form, and function in their own work and in historical and contemporary paintings.  
 \*Core 40 and AHD
- Course: Sculpture 4044  
 Credit: 1 credit (May be taken for successive semesters of instruction at an advanced level)  
 Grade: 9-12  
 Prerequisite: Intro to 2-D Art  
 Description: Students in sculpture engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. Students will use materials such as plaster, clay, metal, paper, wax and plastic to create realistic and abstract sculptures utilizing subtractive and additive processes of carving, modeling, construction, and assembling, origami and paper mache'.  
 \*Core 40 and AHD

Course: Fiber Arts 4046  
Credit: 1 credit (May be taken for successive semesters of instruction at an advanced level)  
Grade: 9-12  
Prerequisite: Intro to 2D Art  
Description: Students in fiber arts engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. Students will analyze historical and contemporary fiber arts from a variety of cultural groups, identifying relationships between context, form, and function. Students create fiber arts works utilizing processes such as loom and off-loom construction, dyeing, coiling, and stitchery. The projects include: basketry, tie-dye, quilting, crochet, loom weaving and braided bracelets.  
\*Core 40 and AHD

Course: Printmaking 4066  
Credit: 1 credit (May be taken for successive semesters of instruction at an advanced level)  
Grade: 9-12  
Prerequisite: Intro to 2D Art  
Description: Students in printmaking engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production that lead to the creation of portfolio quality works. Within this context, students create abstract and realistic prints utilizing processes such as etching, relief, and lithography. The projects include: make your own stamp, wood block cutting to make prints, linoleum cutting to make prints, silk screen for tee shirts or posters, stencils for tee shirts or pictures etc, and embossing, making a card using a stretched raised paper technique.  
\*Core 40 and AHD

## MUSIC/THEATRE

- Course: Advanced Chorus 4188  
Credit: 2-8 credits  
Grade: 9-12  
Description: Students taking Advanced Chorus develop musicianship and performance skills through ensemble singing. Chorus class provides instruction in creating, performing, conducting, listening to, and analyzing, in addition to focusing on specific subject matter. Students develop the ability to understand and convey the composer's intent in order to connect the performer with the audience. There will be dress rehearsals and performances scheduled outside the school day. Public performances serve as a culmination of daily rehearsal and music goals. Students must participate in these performances that support learning in the classroom.  
\*Core 40 and AHD
- Course: Vocal Jazz 4184  
Credit: 2-8 credits  
Grade: 9-12  
Prerequisite: Selection by audition  
Description: Students in this course develop musicianship and specific performance skills through group and individual settings for the study and performance of vocal jazz. Students develop the ability to understand and convey the composer's intent in order to connect the performer with the audience. There will be dress rehearsals and performances scheduled outside the school day. Public performances serve as a culmination of daily rehearsal and music goals. Students must participate in these performances that support learning in the classroom.  
\*Core 40 and AHD
- Course: Advanced Concert Band 4170  
Credit: 2-8 credits  
Grade: 9-12  
Prerequisite: Students must be willing to devote the time and effort needed to maintain a quality musical organization.  
Description: Advanced Concert Band provides students with a balanced comprehensive study of music through the concert band. Ensemble and solo activities develop elements of musicianship such as tone production, technical skills, intonation, music reading, listening, analyzing music, and studying historically significant styles of literature. Time outside of the school day will be scheduled for dress rehearsals and performances. Public performances will serve as a culmination of daily rehearsal and musical goals.  
\*Core 40 and AHD
- Course: Music Theory and Composition 4208  
Credit: 2 credits  
Grade: 9-12  
Prerequisite: General knowledge of music, general piano skills, band or choir, ability to read music.  
Description: Students will develop skills in the analysis, composition, notation and harmonics of music and theoretical concepts. Students may be expected to attend performances outside of the school day. Grades may be lowered for not attending.  
\*Core 40 and AHD

Course: Instrumental Ensemble 4162  
Credit: 2-8 credits  
Grade: 9-12  
Prerequisite: Students must be willing to devote the time and effort needed to maintain a quality musical organization.  
Description: Instrumental Ensemble provides students with a balanced comprehensive study of music through percussion. Ensemble and solo activities develop elements of musicianship such as tone production, technical skills, intonation, music reading, listening, analyzing music, and studying historically significant styles of literature. Time outside of the school day will be scheduled for dress rehearsals and performances. Public performances will serve as a culmination of daily rehearsal and musical goals.  
\*Core 40 and AHD

Course: Theatre Arts I and II 4254  
Credit: 1 credit per semester  
Grade: 9-12  
Description: Students enrolled in Theatre Arts read and analyze plays, create scripts and theatre pieces, conceive scenic designs and develop acting skills. These activities incorporate elements of theatre history, culture, analysis, response, creative process, and integrated studies. Students explore career opportunities in the theatre, attend and critique theatrical productions, and recognize the responsibilities and the importance of individual theatre patrons in their community. Fulfills requirement for Fine Arts credit for Academic Honors diploma.  
\*Core 40 and AHD

## **HEALTH AND PHYSICAL EDUCATION**

- Course: Physical Education I 3542  
Credit: 1 credit  
Grade: 9  
Description: This one semester course continues the emphasis on health related fitness and developing the skills and habits necessary for a lifetime of activity. This program includes three of the following: fitness activities (cardio-respiratory endurance, muscular strength and endurance, flexibility, and body composition) aerobic exercise, team sports, individual sports, and recreational games. Ongoing assessments include both written and performance based assessments.  
\*Core 40 and AHD
- Course: Physical Education II 3544  
Credit: 1 credit  
Grade: 9  
Description: This one semester course continues the emphasis on health related fitness and developing the skills and habits necessary for a lifetime of activity. This program includes three of the following: fitness activities (cardio-respiratory endurance, muscular strength and endurance, flexibility, and body composition) aerobic exercise, team sports, individual sports, and recreational games. Ongoing assessments include both written and performance based assessments.  
\*Core 40 and AHD
- Course: Health and Wellness 3506  
Credit: 1 credit  
Grade: 9-12  
Description: This course includes comprehensive lessons: (1) in growth and development, (2) mental and emotional health, (3) community and environmental health, (4) nutrition, (5) family life education, (6) consumer health, (7) personal health, (8) alcohol, (9) tobacco and other drug education, (10) intentional and unintentional injury and (11) health promotion and disease prevention.  
\*Core 40 and AHD
- Course: Current Health Issues 3508  
Credit: 1 credit  
Grade: 10-12  
Description: This course focuses on emerging trends in health including nutrition, fitness, disease, and drug abuse. The class is a more in-depth study of topics covered in Health and Wellness focusing on current, advancing health issues and media influences.  
\*Core 40 and AHD

Course: Elective Physical Education (Strength and Conditioning) 3560  
Credit: 1-6 credits  
Grade: 10-12  
Description: PREREQUISITE is completion of Physical Education I and II with a grade of C and above. Elective Physical Education provides an opportunity for an in-depth study into principles of weight training and conditioning practices. Weight training procedures and proper technique are covered for all levels with a hands-on approach four days a week. Off days will be spent with cardiovascular work, plyometric training, nutrition discussions, and other health-related fitness activities. Ongoing assessment includes both written and performance-based skill evaluation.  
\*Core 40 and AHD

Course: Elective Physical Education (Lifetime Fitness) 3560  
Credit: 1 credit  
Grade: 10-12  
Description: Elective Physical Education promotes lifetime sport and recreational activities and provides an opportunity for an in-depth study in specific areas. Emphasis will be placed on cardiovascular endurance, muscular endurance, muscular strength, and other health-related fitness activities. The exercise program and classroom study will be split throughout each week. The student will have the opportunity to participate in team sports, and individual sports. Students have the opportunity to design an appropriate personal fitness program that enables them to achieve a desired level of fitness. Additional fees may be required in order to participate in field trips such as canoeing and rock climbing. Ongoing assessment includes both written and performance-based skill evaluation.  
\*Core 40 and AHD

Course: Health and Wellness, Advanced 3500  
Credit: 1 credit  
Grade: 11-12  
Description: The general objectives of this course are; 1) to increase the student's anatomical terminology; 2) to increase the student's knowledge in the body's strengths, weaknesses, and limitations; 3) to provide instruction in the principles of the body's major systems; 4) to help the students develop an appreciation for the human body to the extent that the student will respect and care for the body; 5) to increase knowledge of the body systems; 6) to allow the student the opportunity to demonstrate athletic taping techniques; 7) to obtain recertification in CPR and increase knowledge in first aid, medical terminology and health care fields and issues.  
\*Core 40 and AHD

## MULTIDISCIPLINARY

Course: Developmental Reading 1120  
Credit: 1 or 2 credits  
Grade: 11 – 12  
Prerequisite: Failure of GQE Language Arts portion  
Description: The course provides students continuing opportunities to develop basic skills including: reading, writing, listening, speaking, note-taking, study and organization skills, and problem-solving skills that are essential for high school course work achievement. Determination of the skills to be emphasized in the course is based on the Indiana State standards and individual school corporation general curriculum plans.

Course: College-Entrance Preparation 0532  
Credit: 1 credit  
Grade: 11-12  
Prerequisite: Algebra II (or concurrent enrollment in Algebra II)  
Description: This course uses individual student score reports from the PSAT to prepare students for the SAT or ACT exams. Based on these score reports, students will receive targeted instruction to strengthen their foundations in critical reading, writing, math and science. Test taking strategies to prepare students for success on a high-stakes assessment are also included.

## AGRICULTURE EDUCATION

Course:	Introduction to Agriculture	5056
Credit:	2 credits	
Grade:	9-12	
Description:	This course is a yearlong program which provides students with an introduction to careers and the fundamentals of agricultural science and business. Units to be covered include: agricultural literacy, basic principles of and employability in the agricultural/horticultural industry, basic agribusiness principle and skills, and developing leadership skills in agriculture. *Core 40 and AHD	
Course:	Animal Science	5008
Credit:	2 credits	
Grade:	9-12	
Description:	This course is a yearlong program that provides students with an overview of the field of animal science. Topics to be address include: anatomy and physiology, genetics, reproduction and biotechnology, nutrition, aquaculture, career in animal science, animal health, meeting environmental requirements of animals, and management practices for the care and maintenance of animals. *Core 40 and AHD elective, May fulfill 2 credits of the minimum science requirement for graduation	
Course:	Landscape Management I	5136
Credit:	2 credits	
Grade:	9-12	
Description:	Students are introduced to the procedures used in the planning and design of a landscape using current technology practices, the principles and procedures involved with landscape construction, the determination of maintenance schedules, communications, management and employability skills necessary in landscaping operations, and the care and use of equipment utilized by landscapers. *Core 40 and AHD, <i>Quantitative Reasoning</i>	
Course:	Natural Resources	5180
Credit:	2 credits	
Grade:	10-12	
Description:	Students are introduced to career opportunities in natural resource management and related industries, understanding forest ecology importance, recognizing trees and their products, tree growth and development, forest management, measuring trees, timber stand improvement and urban forestry, soil features, native wildlife, and weather. *Core 40 and AHD	
Course:	Agribusiness Management	5002
Credit:	2 credits	
Grade:	11-12	
Description:	This course presents the concepts necessary for managing an agriculture-related business from a local and global perspective. Concepts include: risk management, credit, computerized record keeping, budgeting, cash flow, tax, insurance, cooperatives, purchasing and agricultural law applications. *Core 40 and AHD	

- Course: Food Science 5102  
Credit: 2 credits  
Grade: 9-12  
Description: Introductions to principles of food processing, food chemistry and physics, nutrition, food microbiology, preservation, packaging and labeling, food commodities, food regulations, issues and careers in the food science industry help students understand the role that food science plays in the securing of a safe, nutritious, and adequate food supply.  
\*Core 40 and AHD
- Course: Advances Life Science, Animals 5070  
Credit: 2 credits  
Grade: 11-12  
Description: Students investigate concepts that enable them to understand animal life and animal science as it pertains to agriculture.  
\*Core 40 and AHD, *Quantitative Reasoning*

*It is the policy of the Frankton-Lapel Schools not to discriminate on the basis of race, color, religion, gender, national origin, age, limited English proficiency, or disability in its programs or employment policies as required by the Indiana Civil Rights Act (I.C. 22-9.1). Title VI and VII (Civil Rights Act of 1964), the Equal Pay Act of 1973, Title IX (Educational Amendments), and Section 504 (Rehabilitation Act of 1973).*

Name \_\_\_\_\_

## FRANKTON HIGH SCHOOL FOUR YEAR PLAN SHEET

### Core 40

We encourage you to use this sheet and enlist the aid of parents in planning your high school career and selecting courses, which will meet your education career plans. The plan sheet can be reworked or changed at any time, but will provide an overall view of your academic goals.

<b>Fall 9th Grade</b>	<b>Fall 10th Grade</b>	<b>Fall 11th Grade</b>	<b>Fall 12th Grade</b>
1. English	1. English	1. English	1. English
2. Math	2. Math	2. U.S. History	2. Government
3. Science	3. Science	3. Math	3. Quant. Reas. _____
4. Physical Education	4. _____	4. Science	4. _____
5. _____	5. _____	5. _____	5. _____
6. _____	6. _____	6. _____	6. _____
7. _____	7. _____	7. _____	7. _____

Alternatives

Alternatives

Alternatives

Alternatives

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

<b>Spring 9th Grade</b>	<b>Spring 10th Grade</b>	<b>Spring 11th Grade</b>	<b>Spring 12th Grade</b>
1. English	1. English	1. English	1. English
2. Math	2. Math	2. U.S. History	2. Economics
3. Science	3. Science	3. Math	3. Quant. Reas. _____
4. Physical Education	4. _____	4. Science	4. _____
5. _____	5. _____	5. _____	5. _____
6. _____	6. _____	6. _____	6. _____
7. _____	7. _____	7. _____	7. _____

Prep for College and Health & Wellness should be taken during either grade 9 or 10, but take them both in the same year.

World History or World Geography should be taken during either grade 9 or 10.

Name \_\_\_\_\_

## FRANKTON HIGH SCHOOL FOUR YEAR PLAN SHEET Academic Honors

We encourage you to use this sheet and enlist the aid of parents in planning your high school career and selecting courses, which will meet your education career plans. The plan sheet can be reworked or changed at any time, but will provide an overall view of your academic goals.

### Fall 9th Grade

1. English
2. Math
3. Science
4. Physical Education
5. World Language
6. \_\_\_\_\_
7. \_\_\_\_\_

### Fall 10th Grade

1. English
2. Math
3. Science
4. World Language
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_

### Fall 11th Grade

1. English
2. U.S. History
3. Math
4. Science
5. World Language
6. \_\_\_\_\_
7. \_\_\_\_\_

### Fall 12th Grade

1. English
2. Government
3. Math
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_

Alternatives

---

---

---

Alternatives

---

---

---

Alternatives

---

---

---

Alternatives

---

---

---

### Spring 9th Grade

1. English
2. Math
3. Science
4. Physical Education
5. World Language
6. \_\_\_\_\_
7. \_\_\_\_\_

### Spring 10th Grade

1. English
2. Math
3. Science
4. World Language
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_

### Spring 11th Grade

1. English
2. U.S. History
3. Math
4. Science
5. World Language
6. \_\_\_\_\_
7. \_\_\_\_\_

### Spring 12th Grade

1. English
2. Economics
3. Math
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_

Prep for College and Health & Wellness should be taken during either grade 9 or 10, but take them both in the same year.

World History or World Geography should be taken during either grade 9 or 10.

Two fine arts credits are required some time during high school.

Don't forget the AP or Dual Credit requirements or ACP requirements.

Name \_\_\_\_\_

## FRANKTON HIGH SCHOOL FOUR YEAR PLAN SHEET Technical Honors

We encourage you to use this sheet and enlist the aid of parents in planning your high school career and selecting courses, which will meet your education career plans. The plan sheet can be reworked or changed at any time, but will provide an overall view of your academic goals.

<b>Fall 9th Grade</b>	<b>Fall 10th Grade</b>	<b>Fall 11th Grade</b>	<b>Fall 12th Grade</b>
1. English	1. English	1. English	1. English
2. Math	2. Math	2. U.S. History	2. Government
3. Science	3. Science	3. Math	3. Science
4. Physical Education	4. _____	4. _____	4. VOC
5. _____	5. _____	5. _____	5. VOC
6. _____	6. _____	6. _____	6. VOC
7. _____	7. _____	7. _____	7. VOC
Alternatives	Alternatives	Alternatives	Alternatives
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

<b>Spring 9th Grade</b>	<b>Spring 10th Grade</b>	<b>Spring 11th Grade</b>	<b>Spring 12th Grade</b>
1. English	1. English	1. English	1. English
2. Math	2. Math	2. U.S. History	2. Economics
3. Science	3. Science	3. Math	3. Science
4. Physical Education	4. _____	4. _____	4. VOC
5. _____	5. _____	5. _____	5. VOC
6. _____	6. _____	6. _____	6. VOC
7. _____	7. _____	7. _____	7. VOC

Prep for College and Health & Wellness should be taken during either grade 9 or 10, but take them both in the same year.

Don't forget the additional requirements: certification or dual credits and test scores

World History or World Geography should be taken during either grade 9 or 10.

# AHS D26 Career Campus

## CAREER AND TECHNICAL EDUCATION CAREER PATHWAY CTE COURSES

Students, **PLEASE READ:** All courses listed in this section are **Junior and Senior level** courses only (unless a special exemption is made for an individual who has met the prerequisites prior to the start of the junior year). **ALL** courses in this section are **multiple-block courses** and require **submission of an application** when completing course selection. Please see your counselor to pick up an application during the scheduling process and return the application to your counselor for completion of academic information and verification by the deadline announced. Please see **specific course requirements** such as Accuplacer or Acceptable Test Scores, Location of the Program, Transportation requirements, and Certification options. Please do not select one of these options if you cannot meet the requirements by July 15 prior to the start of the school year.

### AGRIBUSINESS

**51361/51362 LANDSCAPE MANAGEMENT I (11, 12) (QR)**- *Landscape Management* provides the student with an overview of the many career opportunities in the diverse field of landscape management. Students are introduced to the procedures used in the planning and design of a landscape using current technology practices, the principles and procedures of landscape construction, the determination of maintenance schedules, communications and management skills necessary in landscape operations and the care and use of equipment utilized by landscapers. Students will also participate in leadership development, supervised agricultural experience and career exploration activities in the area of landscape management. Upon completion of the program, students have the opportunity to continue on to a post-secondary level of education.

- 3 credits per semester; 2 semester course
- Recommended Prerequisites: none
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **This course meets at the Anderson D26 Career Campus**
- **Transportation is provided**

### AUTOMOTIVE

**55141/55142 AUTOMOTIVE COLLISION REPAIR I (Certification) (11, 12)** - *Automotive Collision Repair I* consists of four (4) semesters of study in the non-structural and structural repair of the automobile body and component parts. The objective of the Collision Repair Program is to qualify the student as an entry-level collision repair technician equipped with the basic knowledge and skills to repair and refinish collision damaged vehicles. The trade is taught in a lab type setting where the learning experience is achieved by working on some of the latest equipment & vehicles. The Auto Body trade consists of many levels of employment or different sub-trades, and they are included in the four semesters of study. The most commonly known levels of the trade are the body repair technician, frame repair technician, painting and refinishing technician, glass technician, estimator, foreman and manager. First year includes: Theory and lab in the proper use and safety of tools, body construction and parts nomenclature, repair cost estimating, mathematics related to the trade, automotive hardware, shop procedures and safety.

- 3 credits per semester, 2 semester course
- Prerequisite: Introduction to Transportation and/or application accepted.
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **The course meets at the Anderson District 26 Career Campus.**
- **Transportation is provided.**

**55441/55442 AUTOMOTIVE COLLISION REPAIR II (Certification) (12)** - Second year includes: Theory and lab in conventional frame straightening and analysis, uni-body structural analysis and repair, suspension component identification and alignment, rust-proofing and corrosion protection, weld-on panel replacement and alignment, air conditioning service.

- 3 credits per semester, 2 semester course
- Prerequisite: Automotive Collision Repair I and application accepted.
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **The course meets at the Anderson D26 Career Campus.**
- **Transportation is provided.**

**55101/55102 AUTOMOTIVE SERVICES TECHNOLOGY I (DUAL CREDIT) (Certification) (11, 12)** - *Automotive Services Technology* is based on classroom and laboratory experiences that incorporate training in service and repair work on all types of late model cars and light trucks. Training includes the use of service/repair information such as ALLDATA and Mitchell's on Demand5 professional level online service information. This is combined with a variety of hand and power tools along with automotive computer Scan Tools. Instruction and practice provides opportunities for students to diagnose malfunctions, disassemble units, perform parts inspections, and repair and replace parts. Topics of study include: Brakes, Electrical Systems, Engine Performance, Engine Repair, Manual Drive Train, Suspension and Steering, Automatic Transmission, Heating and Air Conditioning. Students completing **both** the Auto Services Tech I & II may obtain ASE Student Certifications in Engine Repair and Electrical/Electronic Systems. **Dual Credit is offered with acceptable level placement scores.**

- 3 credits per semester, 2 semester course - weighted 1.0 high school honors/college level curriculum
- Ivy Tech equivalent AUTC 100, AUTC 107
- Prerequisite: Introduction to Transportation and/or application accepted.
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **The course meets at the Anderson D26 Career Campus. Transportation is provided.**

**55461/55462 AUTOMOTIVE SERVICES TECHNOLOGY II (DUAL CREDIT) (Certification) (12)** (See Automotive Services Tech I for course description) Students completing **both** the Auto Services Tech I & II may obtain ASE Student Certifications in Engine Repair and Electrical/Electronic Systems. **Dual Credit is offered with acceptable level placement scores.**

- 3 credits per semester, 2 semester course - weighted 1.0 high school honors/college level curriculum
- Ivy Tech equivalent AUTC 109 and AUTC 113, AUTC 122, and AUTC 127
- Recommended Prerequisites: Automotive Services Technology I and application accepted.
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **The course meets at the Anderson D26 Career Campus.**
- **Transportation is provided.**

## **BUSINESS ADMINISTRATION AND MARKETING**

**59661/59662 ENTREPRENEURSHIP & NEW VENTURES (12)** - *Entrepreneurship and New Ventures* introduces entrepreneurship, and develops skills and tools critical for starting and succeeding in a new venture. The entrepreneurial process of opportunity recognition, innovation, value proposition, competitive advantage, venture concept, feasibility analysis, and "go to" market strategies will be explored through mini case studies of successful and unsuccessful entrepreneurial start-ups. Additionally, topics of government and legal restrictions, intellectual property, franchising location, basic business accounting, raising startup funding, sales and revenue forecasting and business plan development will be presented through extensive use of word processing, spreadsheet and presentation software.

- 3 credits per semester, 2 semester course
- Prerequisites: Principles of Marketing and application accepted.; recommended: Accounting and ICT
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **This course meets at Anderson High School.**

**52583/52584 FINANCIAL SERVICES (11, 12) (QR)** - *Financial Services* provides instruction in finance and business fundamentals as they relate to financial institutions, financial planning, business and personal financial services, investment and securities, risk management, and corporate finance. Students are provided opportunities to develop attitudes and apply skills and knowledge in the area of finance.

- 3 credits per semester, 2 semester course
- Prerequisites: Accounting and Principles of Marketing; application accepted.
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **This course meets at Anderson High School.**

**59181/59182 STRATEGIC MARKETING (12)** - *Strategic Marketing* builds upon the foundations of marketing and applies the functions of marketing at an advanced level. Students will study the basic principles of consumer behavior and examine the application of theories from psychology, social psychology and economics. The relationship between consumer behavior and marketing activities will be reviewed

- 2 credits per semester, 2 semester course
- Prerequisites: Marketing in Hospitality and Merchandising; Application accepted. Co-requisite: WBL – Business & Marketing (52601/52602) See below.
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **This course meets at Anderson High School.**

**52601/52602 WORK-BASED LEARNING – BUSINESS & MARKETING (12)** – WBL is an onsite internship that compliments the Capstone course where the student is placed in a related field experience either paid or unpaid to gain firsthand knowledge of the industry within the field and begin networking to gain contacts for future employment.

- 1 credit per semester; 2 semester course
- Prerequisites: Application accepted with appropriate pathway completion; co-requisite: Strategic Marketing or Financial Services
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **This course meets at Anderson High School until placement is made**
- **Student must provide transportation to worksite**

## CONSTRUCTION

**55801/55802 CONSTRUCTION TRADES I (11, 12)** - *Construction Trades I* includes classroom and laboratory experiences covering the formation, installation, maintenance, and repair of buildings, homes, and other structures. This course also covers the use of working drawings and applications from the print to the work. Students will explore the relationship of views and details, interpretation of dimension, transposing scale, tolerance, electrical symbols, sections, materials list, architectural plans, geometric construction, three dimensional drawing techniques, and sketching. Elementary aspects of residential design and site work will also be covered. Areas of emphasis will include print reading and drawing, room schedules and plot plans. Students will examine the design and construction of floor and wall systems and develop the skills needed for layout and construction processes of floor and wall systems from blueprints and professional planning documents. Instruction will be given in the following areas, administrative requirements, definitions, building planning, foundations, wall coverings, roof and ceiling construction, and roof assemblies. Students will develop an understanding and interpretation of the Indiana Residential Code for one and two-family dwellings and safety practices including Occupational Safety and Health Administration's Safety & Health Standards for the construction industry.

- 3 credits per semester, 2 semester course
- Recommended Prerequisites: Introduction to Construction; Application accepted.
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **This course meets at the Anderson D26 Career Campus.**
- **Transportation is provided.**

**55781/55782 CONSTRUCTION TRADES II (12)** - *Construction Trades II* builds on the topics covered in Construction Trades I and includes: formation, installation, maintenance, and repair of buildings, homes, and other structures including recent trends in the residential construction industry. Information is presented concerning materials, occupations, and professional organizations within the industry. Students will develop basic knowledge, skills, and awareness of interior trim. This course provides training in installation of drywall, moldings, interior doors, kitchen cabinets, and baseboard moldings. Students will also develop skills in the finishing of building exteriors. They will also explore skills in the installation of cornices, windows, doors and various types of sidings used in today's market place. Additionally, the course covers design and construction of roof systems and using framing squares for traditional rafter and truss roofing. **THIS COURSE WILL NOT BE AVAILABLE UNTIL 2016-2017**

- 3 credits per semesters, 2 semester course
- Prerequisites: Construction Trades I; Application accepted.
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **This course meets at the Anderson D26 Career Campus.**
- **Student must provide transportation to jobsite.**

## COSMETOLOGY

**58021/58022 COSMETOLOGY I (12)** - *Cosmetology I* includes classroom and practical experience concerned with a variety of beauty treatments, including the care and beautification of hair, complexion, and hands. Instruction will include training in giving shampoos, rinses, and scalp treatments, hair styling, setting, cutting, dyeing, tinting, bleaching and fitting wigs, permanent waving, facials, and manicuring. Bacteriology, anatomy, hygiene, sanitation, salon management, and customer relations will be emphasized. The class will start during the summer and be completed at the end of the following summer. Students should complete 1,500 hours of instruction, which would qualify them to take the state board licensing examination. **Students must pay a portion of their tuition and provide their own transportation.**

- 3 credits per semester; 2 semester course (includes class time during the pre-senior year summer session)
- Prerequisite: Application accepted
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honor and Core 40 with Technical Honors diplomas
- **This course is offered by Anderson Community School Corporation but is taught on site at Apex Beauty School.**
- **Student must provide transportation to class site.**

**58061/58062 COSMETOLOGY II (Certification) (12)** (see *Cosmetology I* course description above) **Students must pay a portion of their tuition and provide their own transportation.**

- 3 credits per semester; 2 semester course (includes class time during the post-senior year summer session)
- Co-requisite: Must be scheduled with Cosmetology I
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **This course is offered by Anderson Community School Corporation but is taught on site at Apex Beauty School.**
- **Student must provide transportation to the class site.**

## CRIMINAL JUSTICE

**58221/58222 CRIMINAL JUSTICE I (DUAL CREDIT) (11, 12)** - *Criminal Justice I* Introduces specialized classroom and practical experiences related to public safety occupations such as law enforcement, loss prevention services, and homeland security. This course provides an introduction to the purposes, functions, and history of the three primary parts of the criminal justice system as well as an introduction to the investigative process. Oral and written communication skills should be reinforced through activities that model public relations and crime prevention efforts as well as the preparation of police reports. Dual Credit is offered with acceptable level placement scores.

- 3 credits per semester, 2 semester course - weighted 1.0 high school honors/college level curriculum
- Ivy Tech equivalent CRIM 101 Intro to Criminal Justice; CRIM 105 Intro to Criminology
- Prerequisite: Interpersonal Relationships; Application accepted
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **This course meets at the Anderson D26 Career Campus.**
- **Transportation is provided.**

**58241/58242 CRIMINAL JUSTICE II (DUAL CREDIT) (12)** - *Criminal Justice II* introduces students to concepts and practices in controlling traffic as well as forensic investigation at crime scenes. Students will have opportunities to use mathematical skills in crash reconstruction and analysis activities requiring measurements and performance of speed/acceleration calculations. Additional activities simulating criminal investigations will be used to teach scientific knowledge related to anatomy, biology, and chemistry as well as collection of evidence and search for witnesses, developing and questioning suspects, and protecting the integrity of physical evidence found at the scene and while in transit to a forensic science laboratory. Procedures for the use and control of informants, inquiries keyed to basic leads, and other information-gathering activity and chain of custody procedures will also be reviewed. Dual Credit is offered with acceptable level placement scores.

- 3 credits per semester, 2 semester course – weighted 1.0 high school honors/college level curriculum
- Ivy Tech equivalent CRIM 111 Intro to Traffic Enforcement and Investigation; CRIM 113 Criminal Investigation
- Recommended Prerequisites: Criminal Justice I; Application accepted.
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **This course meets at the Anderson D26 Career Campus.**
- **Transportation is provided.**

## CULINARY ARTS & HOSPITALITY MANAGEMENT

**54401/54402 CULINARY ARTS & HOSPITALITY MANAGEMENT (DUAL CREDIT) (Certification) (11, 12)** - *Culinary Arts and Hospitality Management* prepares students for occupations and higher education programs of study related to the entire spectrum of careers in the hospitality industry. This course builds a foundation that prepares students to enter the Advanced Culinary Arts or Advanced Hospitality courses. Major topics include: introduction to the hospitality industry; food safety and personal hygiene; sanitation and safety; regulations, procedures, and emergencies; basic culinary skills; culinary math; and food preparation techniques and applications; principles of purchasing, storage, preparation, and service of food and food products; application of sanitation and safety principles to maintain safe and healthy food service and hospitality environments; use and maintenance of related tools and equipment; and application of management principles. Intensive, teacher monitored standards-based laboratory experiences with commercial applications are required and may be either school-based or "on-the-job" or a combination of the two. Work-based experiences in the food industry are strongly encouraged. Dual Credit is offered with acceptable level placement scores.

- o 3 credits per semester, 2 semester course - weighted 1.0 high school honors/college level curriculum
- o Prerequisites: Introduction to Culinary Arts & Hospitality; application accepted.
- o Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- o **Program location To Be Determined (TBD)**

**53461/53462 ADVANCED CULINARY ARTS (DUAL CREDIT) (Certification) (12)** - *Advanced Culinary Arts* prepares students for occupations and higher education programs of study related to the entire spectrum of careers in the food industry, including (but not limited to) food production and services; food science, dietetics, and nutrition; and baking and pastry arts. Major topics for this advanced course include: basic baking theory and skills, introduction to breads, introduction to pastry arts, nutrition, nutrition accommodations and adaptations, cost control and purchasing, and current marketing and trends. Instruction and intensive laboratory experiences include commercial applications of principles of nutrition, aesthetic, and sanitary selection; purchasing, storage, preparation, and service of food and food products; using and maintaining related tools and equipment; baking and pastry arts skills; managing operations in food service, food science, or hospitality establishments; providing for the dietary needs of persons with special requirements; and related research, development, and testing. Intensive laboratory experiences with commercial applications are a required component of this course of study. Student laboratory experiences may be either school-based or "on-the-job" or a combination of the two. *Advanced Culinary Arts* builds upon skills and techniques learned in *Culinary Arts and Hospitality Management*, which must be successfully completed before enrolling in this advanced course. Work-based experiences in the food industry are strongly encouraged. A standards-based plan guides the students' laboratory and work-based experiences. Dual Credit is offered with acceptable level placement scores.

- o 3 credits per semester, 2 semester course - weighted 1.0 high school honors/college level curriculum
- o Prerequisite: Culinary Arts & Hospitality Management; application accepted.
- o Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- o **Program location TBD**

**54581/54582 ADVANCED HOSPITALITY MANAGEMENT (DUAL CREDIT) (Certification) (12)** - *Advanced Hospitality Management* prepares students for employment in the hospitality industry. It provides the foundations for study in higher education that leads to a full spectrum of hospitality careers. This is a broad-based course that introduces students to all segments of hospitality, what it includes, and career opportunities that are available; provides a survey of management functions, highlighting basic theories and facts; and exposes students to current trends and current events within the industry. Three major goals of this course are for students to be able to: Identify current trends in hotel and restaurant management, distinguish the difference between hospitality and tourism, and state differences in front of the house versus back of the house. Intensive experiences in one or more hospitality industry settings are a required component of the course. A standards-based plan for each student guides the industry experiences. Students are monitored in their industry experiences by the *Advanced Hospitality Management* teacher. Industry experiences may be either school-based or "on the job" in community-based hospitality settings, or in a combination of the two. Dual Credit is offered with acceptable level placement scores.

- o 3 credits per semester, 2 semester course - weighted 1.0 high school honors/college level curriculum
- o Prerequisite: Culinary Arts and Hospitality Management; application accepted.
- o Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- o **Program location TBD**

## EDUCATION

**54121/54122 EARLY CHILDHOOD EDUCATION I (DUAL CREDIT) (11, 12)** - *Early Childhood Education I* generally prepares students for occupations in child care to be integrated with related knowledge and skills pertinent to child growth and development, parent-child relationships, learning experiences for children, nutrition, problems associated with child abuse and neglect, aspects and policies of child care services, and relationship skills for interacting with clientele. Credit for Ivy Tech Community College can be earned. Laboratory classroom and job shadowing allow hands-on experience with preschool children. Dual Credit is offered with acceptable level placement scores.

- 3 credits per semester, 2 semester course - weighted 1.0 high school honors/college level curriculum
- Ivy Tech equivalent to ECED 100, ECED 101, and ECED 103
- Prerequisite: Child Development or Adv. Child Development semesters and/or application accepted.
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **This course meets at the Anderson District 26 Career Campus.**
- **Student must provide transportation to placement location.**

**54061/54062 EARLY CHILDHOOD EDUCATION II (DUAL CREDIT) (Certification) (12)** - Second year is a continuation of Early Childhood Education I. Dual Credit is offered with acceptable level placement scores.

- 3 credits per semester, 2 semester course - weighted 1.0 high school honors/college level curriculum
- Ivy Tech equivalent to ECED 105
- Prerequisite: Early Childhood Education I; Application accepted.
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **This course meets at the Anderson District 26 Career Campus.**
- **Student must provide transportation to placement site.**

**54083/54084 EDUCATION PROFESSIONS I (morning only) (12)** - This course offers the student the chance to experience teaching students at the kindergarten, elementary, and middle school levels under the direct supervision of a licensed classroom instructor. Teacher interns aid the classroom instructor in lesson planning, curriculum, grading, and directing class activities. Educational topics are researched, and term papers are required.

- 3 credits per semester; 2 semester course
- Prerequisite: Advanced Child Development and Interpersonal Relationships.
- Counts as an Elective for all diplomas
- **This course meets at Anderson District 26 Career Campus.**
- **Student must provide transportation to placement location.**

## FASHION & TEXTILE

**54203/54204 FASHION AND TEXTILES CAREERS I (10, 11, 12)** - This class builds on the skills learned in Introduction to Fashion and Textiles. Students make more difficult projects, including quilting, evening wear, and other teacher-pupil chosen projects.

- 3 credits per semester, 2 semester course
- Prerequisite: Introduction to Fashion and Textiles
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **This course meets at Anderson High School**

**54213/54214 FASHION AND TEXTILES CAREERS II (11, 12)** - *Fashion and Textiles Careers II* builds on the content knowledge and skills of Fashion and Textiles Careers I and prepares students for occupations and higher education programs of study related to the entire spectrum of the career clusters that encompass careers in fashion, apparel, and other textiles management, production, and services. Instruction and laboratory experiences may include commercial applications of principles of design, production, and selection of apparel and textile products; product research, development, and testing; demonstration and instruction of related tools and equipment; and commercial maintenance of apparel and textile products. Intensive laboratory experiences with commercial applications are a required component of this course of study. It is recommended for students with interests in apparel, textiles, and fashion career pathways and provides the foundation for study in higher education that leads to related careers. **THIS COURSE BEGINS IN 2016-17!**

- 3 credits per semester, 2 semester course
- Prerequisite: Fashion and Textiles Careers I
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **This course meets at Anderson High School.**

## **FIRE & RESCUE**

**58201/58202 FIRE AND RESCUE I (DUAL CREDIT) (Certification) (11, 12)** - Every year, fires and other emergencies take thousands of lives and destroy property worth billions of dollars. Firefighters and emergency services workers help protect the public against these dangers by rapidly responding to a variety of emergencies. They are frequently the first emergency personnel at the scene of a traffic accident or medical emergency and may be called upon to put out a fire, treat injuries or perform other vital functions. The *Fire and Rescue* curriculum may include five Indiana state fire certifications: (1) Mandatory (not offered in AHS program); (2) Firefighter I, (3) Firefighter II, (4) Hazardous Materials Awareness, (5) Hazardous Materials Operations. Dual Credit is offered with acceptable level placement scores.

- 3 credits per semester, 2 semester course - weighted 1.0 high school honors/college level curriculum
- Prerequisites: Pass the AFD Physical Fitness Test; Application accepted.
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **This course meets at the Anderson Fire Department Training Grounds.**
- **Transportation is provided.**

**552101/52102 EMERGENCY MEDICAL SERVICES (EMS) (Certification) (12)** – This course offers students an additional two industry certifications by adding (6) First Responder, and (7) Emergency Medical Technician-Basic to the curriculum. **Students who wish to be certified as an EMT MUST be 18 years of age by the end of the course to take the state certification exam.** Because students must be 18 to take the state EMT certification test, this course is only open to seniors.

- 3 credits per semester, 2 semester course weighted 1.0 high school honors/college level curriculum
- Prerequisites: Pass AFD Physical Fitness Test; MUST have 24 high school credits. Fire and Rescue I or Health Science I suggested **but not required.** Application accepted.
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **This course meets at the Anderson Fire Department Training Grounds.**
- **Transportation is provided.**

## **HEALTH SCIENCE**

**52821/52822 HEALTH SCIENCE EDUCATION I (DUAL CREDIT) (11, 12)** - Students will learn the fundamentals of health care and explore numerous careers in the health career cluster. Job shadowing and field trips to several health facilities give students the opportunity to see health care professionals on the job. The curriculum includes an introduction to medical language and anatomy/ physiology, basic skills, the prevention and treatment of disease, relating standard health practices to personal and public health, professional behavior, and formulating a personal plan for achieving a health care career. Throughout this two-semester course, students participate in community service and develop leadership skills through membership in Health Occupations Students of America. Dual Credit is offered with acceptable level placement scores.

- 3 credits per semester, 2 semester course - weighted 1.0 high school honors/college level curriculum
- Ivy Tech equivalent: HLHS 101 Medical Terminology & HLHS 111 Health and Wellness for Life
- Prerequisite: Application accepted. Suggested: Anatomy & Physiology
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **This course meets at the Anderson D26 Career Campus.**
- **Transportation is provided.**

**52841/52842 HEALTH SCIENCE EDUCATION II: Nursing (DUAL CREDIT) (Certification) (Morning only) (12)** - Students in this two-semester course participate in a more individualized plan of study; therefore, it best suits students with a pre-determined career goal. The curriculum includes CPR and 1<sup>st</sup> Aid certification, projects relating to individual career interests, participation in community service and development of leadership skills through membership in Health Occupations Students of America, life skills needed to manage one's personal life, job seeking skills, and completion of a personal portfolio. Students have the opportunity to obtain 6 hours of dual credits with Ivy Tech Community College. Students also have the opportunity to obtain certification as a Certified Nursing Assistant (CNA). Dual Credit is offered with acceptable level placement scores.

- 3 credits per semester, 2 semester course - weighted 1.0 high school honors/college level curriculum
- Ivy Tech equivalent HLHS 100 Intro to Health Careers and HLHS 107 CNA Preparation
- Prerequisite: Health Science Ed. I and/or Application accepted
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **This course meets at the Anderson D26 Career Campus.**
- **Student must provide transportation to clinical location.**

**52143/52144 HEALTH SCIENCE EDUCATION II: Pharmacy (Certification) (12)** - *Health Science Education II: Pharmacy* is an extended laboratory experience at the student's choice of clinical site; usually pharmacies found in grocery and drug stores or hospitals, designed to provide students the opportunity to assume the role of a pharmacy technician and practice technical skills previously learned in the classroom, including information on the health care system and employment opportunities at a variety of entry levels, an overview of the health care delivery systems, health care teams and legal and ethical considerations. It prepares students with the knowledge, skills and attitudes essential for providing basic care in extended care facilities, hospitals and home health agencies under the direction of licensed pharmacists. In addition, students will learn to record patient information, count tablets and measure medications, mix medications or ointments, package and label prescriptions, accept payment and process insurance claims, and do routine pharmacy tasks such as organizing medications, taking phone calls, cleaning, and customer service. This course also provides students with the knowledge, attitudes, and skills needed to make the transition from school to work in health science careers, including self-analysis to aid in career selection, job seeking and job maintenance skills, personal management skills, and completion of the application process for admission into a post-secondary program. HOSA, the health science student organization, encourages development of leadership, communication, community service and health care related skills.

- 3 credits per semester, 2 semester course
- Recommended Prerequisites: Application accepted; Health Science Education I
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **This course meets at the Anderson D26 Career Campus.**
- **Student must provide own transportation for field placement.**

**52111 VETERINARY CAREERS I (Certification) (12)** - *Veterinary Careers I* is a lab intensive course that introduces students to animal care and veterinary medicine while using field experiences to attain necessary skills. Students will learn and demonstrate standard protocols used in veterinary careers. This course also provides students with the knowledge, attitudes, and skills needed to make the transition from school to work in health science careers, including self-analysis to aid in career selection, job seeking and job maintenance skills, personal management skills, and completion of the application process for admission into a post-secondary program. Participation in HOSA or FFA encourages development of leadership, communication, community service and career related skills. **Student MUST select BOTH Veterinary Careers I & II to complete the program.**

- 3 credits per semester, 1 semester course (1<sup>st</sup> semester only)
- Prerequisites: Required – Health Science I and/or Application accepted
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **This course meets at the Anderson D26 Career Campus.**
- **Student must provide own transportation to field placement.**

**52122 VETERINARY CAREERS II (Certification) (12)** - *Veterinary Careers II* is designed as an extended laboratory experience at the student's choice of clinical site; usually clinics, animal hospitals, or research laboratories, designed to provide students the opportunity to assume the role of a veterinary assistant and practice technical skills previously learned in the classroom, including information on the health care system and employment opportunities at a variety of entry levels, an overview of the health care delivery systems, health care teams and legal and ethical considerations. It prepares students with the knowledge, skills and attitudes essential for providing basic care in extended care facilities, hospitals and home health agencies under the direction of licensed veterinarians. In addition students will learn skills for monitoring and caring for animals before and after surgery, maintain and sterilize surgical instruments, clean and disinfect kennels and operating rooms, provide emergency first aid to animals, give medication, do routine lab tests, feed and bathe animals, and collect fluid or tissue samples. Participation in HOSA or FFA encourages development of leadership, communication, community service and career related skills. **Student MUST select BOTH Veterinary Careers I & II to complete the program.**

- 3 credits per semester, 1 semester course (2<sup>nd</sup> semester only)
- Pre-requisite: Health Science I and/or Application accepted; Co-requisite: Veterinary Careers I (1<sup>st</sup> semester)
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

○  
○

**This course meets at the Anderson D26 Career Campus.  
Student must provide own transportation for field placement.**

**552101/52102 EMERGENCY MEDICAL SERVICES (EMS) (Certification) (12)** – This course offers students an additional two industry certifications by adding (6) First Responder, and (7) Emergency Medical Technician-Basic to the curriculum. **Students who wish to be certified as an EMT MUST be 18 years of age by the end of the course to take the state certification exam.** Because students must be 18 to take the state EMT certification test, this course is only open to seniors.

- 3 credits per semester, 2 semester course weighted 1.0 high school honors/college level curriculum
- Prerequisites: Pass AFD Physical Fitness Test; MUST have 24 high school credits. Fire and Rescue I or Health Science I suggested **but not required.** Application accepted.
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **This course meets at the Anderson Fire Department Training Grounds.**
- **Transportation is provided.**

## **HOUSING AND INTERIOR DESIGN**

**53521/53522 HOUSING AND INTERIOR DESIGN CAREERS I (11, 12)** - *Housing and Interior Design Careers I* prepares students for occupations and higher education programs of study related to the entire spectrum of career clusters that encompass careers related to housing, interiors, and furnishings. Topics include commercial applications of principles of design to creating aesthetic and functional residential and commercial environments; human, non-human, community, family, and financial resources for housing; housing and interiors materials and products; client-centered designing, drafting, blue printing, and space planning; rendering, elevations, and sketching; historical, technological, and environmental impacts on housing and interiors; zoning, building codes, regulations, and accessibility guidelines, and their impact on housing related outcomes. Ethical, legal, and safety issues as well as helping processes and collaborative ways of working with others are to be addressed. Intensive laboratory experiences with commercial applications are a required component of this course of study. Work based experiences in the housing, interiors, and/or furnishings industries are strongly encouraged.

- 3 credits per semester, 2 semester course
- Prerequisites: Introduction to Housing and Interior Design and/or Application accepted.
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **This course meets at Anderson High School.**

**54603/54604 HOUSING AND INTERIOR DESIGN CAREERS II (12)** - *Housing and Interior Design Careers II* is a continuation of Careers I. (see description above.) **THIS COURSE WILL NOT BE AVAILABLE UNTIL 2016-2017.**

- 3 credits per semester, 2 semester course
- Prerequisites: Housing and Interior Design Careers I; Application accepted.
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **This course meets at Anderson High School.**

## INTERDISCIPLINARY COOPERATIVE EDUCATION

The following two courses are taken together providing 3 credits for the student per semester.

**59021/59022 I.C.E./INTERDISCIPLINARY COOPERATIVE EDUCATION - RELATED CLASS (afternoon only) (12) (Co-Op)** - This block-scheduled class is devoted toward the study of personal, social and work traits that are needed to be successful in the world of work. Topics covered include: developing good work habits (good attendance, punctuality, positive attitude, appropriate appearance, appropriate behavior, teamwork, motivation, initiative, confidentiality, loyalty, respect, honesty); learning basic skills (telephone, filing, work ethics, math, communications); learning about on-the-job safety; discovering aptitudes and abilities; researching careers; learning how to find, apply for, and keep a job; learning to work with supervisors and co-workers; and learning life skills (budgeting, banking, taxes, consumerism, citizenship).

- 1 credit per semester, 2 semester course
- Prerequisite: See program requirements for PARTICIPATION course below. Co-requisite: ICE work participation 59023/59024; Application accepted.
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **This course meets at Anderson D26 Career Campus.**
- **Student must provide transportation to jobsite.**

## **59023/59024 I.C.E. /INTERDISCIPLINARY COOPERATIVE EDUCATION – PARTICIPATION (12)**

**(Co-Op)** - The student is released one half of the day to work in a job related to their future career or college plans. Students must apply for and be selected to participate in the ICE program, which is comprised of the related class and work participation.

- 2 credits per semester, 2 semester course
- Prerequisite: None (Must be taken in conjunction with the ICE work participation); Application accepted.
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- The program requirements are:
  - a. Minimum GPA is 2.0 (on a 4.0 scale)
  - b. Good attendance record
  - c. **Transportation is REQUIRED to and from related class and work participation. Please do not select this course if you do not have guaranteed reliable transportation. No transportation is provided by the school corporation.**
  - d. Must be able to work a majority of hours between 7:00 a.m. and 7:00 p.m.
- **This course meets at Anderson D26 Career Campus until placements are verified.**

## MANUFACTURING

**56081/56082 ADVANCED MANUFACTURING I (DUAL CREDIT) (Certification) (11, 12)** - *Advanced Manufacturing I*, is a course that includes classroom and laboratory experiences in two broad areas: Industrial Technology/Software Controls and Manufacturing Trends. Industrial Technology and Software Controls covers wiring and schematic diagrams used to design, install, and repair electrical/electronic equipment such as wireless communication devices, and programmable controllers. Course content will include basic theories of electricity, electronics, digital technology, and basic circuit analysis. Activities include experiences in: soldering; use of an oscilloscope, meters, signal generators and tracers; bread boarding; circuit simulation software; and troubleshooting. Understanding and using the underlying scientific principles related to electricity, electronics, circuits, sine waves, and Ohm's Law are integral to this course. Manufacturing Trends covers basic concepts in manufacturing operations and plant floor layout in the production environment. Applications of Computer Numerical Control (CNC), and lathe and turning operations are developed as a foundation for machining operations. Coordinate system concepts are introduced as relevant to machining processes, as well as fluid and mechanical power, welding, and lean manufacturing. Fluid power concepts will include hydraulic components and circuits, laws and principles, fluid power controllers, and the construction of systems. In the mechanical power portion of the course, students will learn about machine specifications, basic forces, friction, simple machines, motors, and motor controls. Students will also be introduced to lean manufacturing where they will study concepts including: lean goals, product quality, eliminating waste, cost effectiveness, lean concepts, resource planning, continuous improvement, and the various advantages of lean manufacturing. This course includes MSSC concepts required to earn MSSC certification. Dual Credit is offered with acceptable level placement scores.

- 3 credits per semester, 2 semester course - weighted 1.0 high school honors/college level curriculum
- Prerequisites: Introduction to Advanced Manufacturing; Application accepted.
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **This course meets at the Anderson D26 Career Campus.**
- **Transportation is provided.**

**56061/56062 ADVANCED MANUFACTURING II (DUAL CREDIT) (Certification) (12)** - *Advanced Manufacturing II*, introduces basic blueprint reading, Computer Numerical Control (CNC) operation and the skills commonly used in the manufacturing industry. Areas of study will include: interpretation of drawing dimensions and notes to ANSI standards for machining including; Geometric Dimensioning and Tolerancing (GDT), welding, fabrication applications and inspection techniques. Students will be able to use Computer Aided Design software (CAD) to create 3D models and working drawings. Skills in the setup and operation of a CNC mill and lathe will also be acquired using multiple machine tool controllers. Other more general topics will include coordinate systems, dimensioning, line precedence, multi-view drawings, safe dress, tool paths, speed and feed calculations, and tool selection. The course also introduces robotics, automation, and Computer Integrated Manufacturing Technology (CIMT). Common types of factory automation will be identified. The course will focus on three main types of manufacturing automation including; Programmable Logic Controllers (PLC), Computer Numerically Controlled Machines (CNC), and Robotics.

- 3 credits per semester, 2 semester course – weighted 1.0 honors course
- Prerequisites: Advanced Manufacturing I; Application accepted.
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **This course meets at the Anderson D26 Career Campus.**
- **Transportation is provided.**

## MARKETING/MANAGEMENT

**The following two courses are taken together providing 3 credits for the student per semester.**

**59181/59182 STRATEGIC MARKETING (12)** - *Strategic Marketing* builds upon the foundations of marketing and applies the functions of marketing at an advanced level. Students will study the basic principles of consumer behavior and examine the application of theories from psychology, social psychology and economics. The relationship between consumer behavior and marketing activities will be reviewed

- 2 credits per semester, 2 semester course
- Prerequisites: Marketing in Hospitality and Merchandising; Application accepted.
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **This course meets at Anderson High School.**

**52601/52602 WORK-BASED LEARNING – BUSINESS & MARKETING (12)** – WBL is an onsite internship that compliments the Capstone course where the student is placed in a related field experience either paid or unpaid to gain firsthand knowledge of the industry within the field and begin networking to gain contacts for future employment.

- 1 credit per semester; 2 semester course
- Prerequisites: Application accepted with appropriate pathway completion; co-requisite: Strategic Marketing
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- This course meets at Anderson High School until placement is made
- **Student must provide transportation to jobsite**

## RADIO AND TELEVISION

**59861/59862 RADIO & TELEVISION I (11, 12)** - Radio and Television I focuses on communication, media and production. Emphasis is placed on career opportunities, production, programming, promotion, sales, performance, and equipment operation. Students will also study the history of communication systems as well as communication ethics and law. Students will develop oral and written communication skills, acquire software and equipment operation abilities, and integrate teamwork skills. Instructional strategies may include a hands-on school-based enterprise, real and/or simulated occupational experiences, job shadowing, field trips, and internships.

- 3 credits per semester, 2 semester course
- Prerequisites: Introduction to Communications and Mass Media or application accepted.
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Transportation will be provided to offsite studio.

**59921/59922 RADIO & TELEVISION II (12)** - Radio and Television II prepares students for admission to television production programs at institutions of higher learning. Students train on professional equipment creating a variety of video projects. Students enrolling in this program should have successfully completed Radio and Television I. During this second-year program students integrate and build on first-year curriculum while mastering advanced concepts in production, lighting and audio. **THIS COURSE WILL NOT BE AVAILABLE UNTIL 2016-2017.**

- 3 credits per semester, 2 semester course
- Prerequisites: Radio and Television I; Application accepted.
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Transportation will be provided to offsite studio.

## **WELDING**

**57761/57762 WELDING TECHNOLOGY I (DUAL CREDIT) (11, 12)** – *Welding Technology I* includes classroom and laboratory experiences that develop a variety of skills in oxy-fuel cutting and Shielded Metal Arc welding. This course is designed for individuals seeking careers. In Welding, Technician, Sales, Design, Research or Engineering. Emphasis is placed on safety at all times. OSHA standards and guide lines endorsed by the American Welding Society (AWS) are used. Instructional activities emphasize properties of metals, safety issues, blueprint reading, electrical principles, welding symbols, and mechanical drawing through projects and exercises that teach students how to weld and be prepared for college and career success. Students completing this program have the opportunity to earn **15 credits**. Dual Credit is offered with acceptable level placement scores.

- 3 credits per semester, 2 semester course - weighted 1.0 high school honors/college level curriculum
- Ivy Tech equivalent WELD 100; WELD 103; WELD 108; INDT 102; INDT 114 (15 college credits)
- Prerequisite: Application accepted.
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **This course meets at Anderson D26 Career Campus.**
- **Transportation is provided.**

**57781/57782 WELDING TECHNOLOGY II (DUAL CREDIT) (Certification) (12)** Welding Technology II includes classroom and laboratory experiences that develop a variety of skills in Gas Metal ARC welding, Gas Tungsten ARC welding, Plasma Cutting. This course is designed for individuals who intend to pursue careers as Welders, Technicians, Sales Reps, Designers, Researchers or Engineers. Emphasis is placed on safety at all times. OSHA standards and guide lines endorsed by the American Welding Society (AWS) are used. Instructional activities emphasize properties of metals, safety issues, blueprint reading, electrical principles, welding symbols, and mechanical drawing through projects and exercises that teach students how to weld and be prepared for college and career success. Dual Credit is offered with acceptable level placement scores. **This course coming in 2016-17!**

- 3 credits per semester, 2 semester course - weighted 1.0 high school honors/college level curriculum
- Ivy Tech equivalent WELD 101; WELD 109; WELD 207 (9 college credits)
- Prerequisite: Welding Technology I and Application accepted.
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- **This course meets at Anderson D26 Career Campus**
- **Transportation is provided.**