## 2013-14

2012 Indiana Department of Education "A" High School
*2012 Washington Post's "America's Most Challenging High Schools"*
*2011 Lugar Education Patriot Award*
*Top End-of-Course-Assessment Scores in Marion County*
Indiana Department of Education "Exemplary A" School District Of the township schools, "Franklin is the clear standout." - Indianapolis Star

FRANKLIN CENTRAL HIGH SCHOOL
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Franklin Central High School offers a rich variety of academic and elective courses which, when planned carefully over the four year period of high school, will prepare students to be the most sought after individuals by colleges, universities and the world of work.

The guidance counselor's present information to all students during the late fall/early spring semester that will assist with course selection and program development based on individual student needs, achievement, and career goals. It is important for students to make careful course selections by considering their plans after high school, discussing them with parents/guardians, and selecting courses that will fulfill these goals. Create a four year plan to help you stay guided toward your specific goals. On pages 4-10 of this catalog you will find various checklists so that you can determine which courses are necessary for your diploma goals.

## Student Scheduling Guidelines

1. Students plan their schedules for the entire year.
2. Requests or changes to have a specific teacher will not be honored.
3. Students enrolled in seven classes may drop one course for a study hall during the first five days of the semester without grade penalty.
4. Students may not take two English courses simultaneously.
5. Time allotted for change of classes is from the start of the scheduling process in January 2013 until April 30, 2013. Absolutely no changes will be made after this date. A new elective may not be selected at the start of a semester. Students have roughly three months from the initial meeting with the counselor until a schedule must be finalized. After the time allotted to change schedules has expired, a student may not make additional changes. All students are encouraged to regularly communicate with counselors, and are expected to resolve scheduling issues prior to the start of the semester.
6. In order to graduate from Franklin Central High School, a student must complete the requirements of the Franklin Township Community School Corporation and the State Department of Education (See Indiana CORE 40 requirements).
7. 11-22-33. It is recommended that any student considering a college education take the most challenging curriculum he or she is capable of taking.

Sophomores should have a minimum of $\mathbf{1 1}$ credits to be on track for graduation. In order for a student as a junior to be on track for graduation, the student must have attended 2 years of high school AND have a minimum of $\mathbf{2 2}$ credits. To be on schedule for graduation as a senior a student must have a minimum of 33 credits. To earn a diploma a student must have completed their final semester of course work at Franklin Central High School. A student MUST HAVE completed ALL 43 credits in order to participate in commencement and graduation events.

Graduation requirements, as mandated by the State of Indiana and Franklin Township Community School Corporation, are listed on pages 4 through 10 of this catalog.

Occasionally a course will not be offered due to insufficient student enrollment and lack of available staffing. Please include multiple alternate choices on course selection sheets due to these factors.

## Indiana CORE 40 Requirements - Classes of 2014 \& 2015

Students and parents should complete this worksheet prior to meeting with the counselor in the spring semester.
The education, business, labor, and government leaders of the State of Indiana have agreed on education expectations for Indiana high school students. These expectations are called the Indiana Core 40.

Students must meet the Core 40 standard to be considered for admission to an Indiana four-year college or university. Therefore, all college-bound students are advised to select from the following as a minimum preparation for college.

English/Language Arts: 8 credits in literature, composition, and speech
___ English 9-1 ___ English 9-2English 10-1
English 10-2
English 11-1
English 11-2
___ English 12-1
English 12-2
Mathematics: 6-8 credits from the following list:

| Algebra I | Algebra I |
| :--- | :--- |
| Algebra II | Algebra II |
| 2 additional credits recommended: |  |

2 additional credits recommended:
$\qquad$ Finite Math $\qquad$ Finite Math
AP Statistics Pre-Calculus AP Calculus AP Statistics Pre-Calculus APCalculus

Science: 6 credits in laboratory science from the following:

## 2 credits required:

Biology I $\qquad$ Biology I
2 credits required:
__Chemistry I
Physics I
-
Chemistry I
__ Integrated Integrated Chemistry-Physics Chemistry-Physics 2 additional credits: any Core 40 science course (see pages 43-45)

Social Studies: 6 credits distributed as follows:
2 credits required:
$\qquad$ Geography and History of the World World History
2 credits required:
__ US History 1
2 credits required:
__ US Government

Geography and History of the World
$\qquad$ World History
__ US History 2
$\qquad$ Economics

Health/ Physical Education: 3 credits
__PE
PE
Health and Wellness or 3 FACS courses
(see page 26)

Elective Credits: 14 credits
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## End of Course Assessment Passed:

Mathematics (Algebra I)

## English/ Language Arts (English 10)

## CORE 40 with Technical Honors - Classes of 2014 \& 2015

Students and parents should complete this form prior to meeting with the counselor in the spring semester.

## In addition to completing courses for the CORE 40 (Worksheet 1) a student must also:

$\qquad$ Complete 8-10 credits in a career-technical program.
Career clusters represented by a career-technical program at Central-9 Career Center:

Agriculture
Architecture \& Construction
Arts AV Technology and Communication
Business \& Marketing and Information Technology
Health Science

Hospitality \& Human Services
Manufacturing and Logistics
Public Service
Transportation and Motor Sports Academy

Career pathways represented by programs at Franklin Central High School:
Business Department: Business Administration, Web \& Digital Communications, and Information Technology. Tech Ed Department: Engineering (Project Lead the Way)
$\qquad$ Earn a "C-" or better in all required courses.
$\qquad$ Graduate with a 3.0 GPA.
$\qquad$ Complete two of the following (one of which must be a or b):
a. Take Work Keys and score a level 6 or higher in each subject area.
b. Earn 6 college credits in dual credit technical courses

FCHS Business: Web Design, Intro to Microcomputers, Introduction to Business, and Personal Finance
FCHS Tech Ed: Introduction to Engineering Design, Civil Engineering and Architecture, and Principles of Engineering Central 9 Career Center: Information Technology, Business and Office Support Services, Technology Based Accounting, Digital Media/ Graphic Communications, Drafting/ CAD, Electronics, Machine Tool Technology, Auto Service Tech, Aviation, and Diesel Tech
c. Complete a career internship (SWEP program at C9) or cooperative education.
d. Earn a State approved industry recognized certification.

These are available through some C9 programs and Visual Basic, Java and A+ certification.

Total Credits: 47

## CORE 40 with Academic Honors Diploma - Classes of 2014 \& 2015

The Indiana State Board of Education has established an academic honors diploma which is intended to bring honor to those students who choose challenging courses and accumulate at least 47 credits in high school. To be eligible for an academic honors diploma, a student must have a grade point average of "B" (3.0) or above. No grade lower than a "C-" may count toward the diploma. Increased opportunity for acceptance to Indiana's four-year public colleges and universities results when students exceed the Core 40 requirements to attain the Indiana Academic Honors diploma - earning 47 credits with an overall GPA of 3.0 or higher, with no grade lower than a C- in the courses which count toward the diploma. If you earned lower than a C- in a course, you may not count that course toward the 47 credits for an Academic Honors Diploma. Other courses on this list may be substituted. If you complete the requirements for the Academic Honors Diploma and meet financial need guidelines, you can receive up to $100 \%$ of approved tuition and fees at eligible Indiana colleges and universities.

Students and parents should complete this form prior to meeting with the counselor in the spring semester.
English/Language Arts: 9 credits from the following list to include literature, composition, and speech:


Mathematics: 8 credits from the following list to include Algebra II and one (1) upper level math course, i.e. Pre-calculus or calculus

| ___ Algebra I | Algebra I |
| :--- | :--- |
| Algebra II | Algebra II |
| Geometry | Geometry |

$\qquad$ Finite Math Finite Math
___ Algebra II Algebra II
__AP Statistics AP Statistics
_ Geometry Geometry

Science: 6 credits in laboratory science from the following:

## 2 credits required:

Biology I $\qquad$ Biology I
$\underline{2}$ credits required:
Chemistry I
___ Chemistry I
__ Physics I
___ Physics I
$\qquad$ Integrated Chemistry-Physics (ICP) $\qquad$ Integrated Chemistry-Physics (ICP)
2 additional credits: any Core 40 science course (see pages 43-45)
Social Studies: 6 credits
2 credits required:
Geography and History __ Geography and History
of the World
World History of the World
$\underline{2}$ credits required:
US History 1
2 credits required: World History
___ US Government
$\qquad$ US History 2

World Language: 6 credits from the following list in one language or four (4) credits in one language and four (4) in another language:
—————— French I, II, III, IV, or AP

Fine Arts: 2 credits in art, music, and other areas which encompass visual, performing, and creative modes of learning.
Health/ Physical Education: 3 credits
$\qquad$
$\qquad$ PE ___ Health and Wellness or 3 FACS courses (see page 26)

End of Course Assessment Passed: $\qquad$ Mathematics (Algebra I) $\qquad$ English/ Language Arts (English 10)

For this diploma students must meet the criteria from Worksheet 1 as well as complete one of the following:
$\qquad$ a. Four credits in two or more AP courses AND their corresponding AP exams
$\qquad$ b. Six college credits in dual enrollment courses
c. Two credits in AP course and its corresponding AP exam AND three college credits in dual enrollment courses.
$\qquad$
d. Score of 1200 or higher on the SAT (Critical reading and math)

Total Credits: 47
$\qquad$ e. Score of 26 composite on the ACT

## Indiana CORE 40 Requirements - Students entering high school in 2012-13 and after

Students and parents should complete this worksheet prior to meeting with the counselor in the spring semester.
The education, business, labor, and government leaders of the State of Indiana have agreed on education expectations for Indiana high school students. These expectations are called the Indiana Core 40.

Students must meet the Core 40 standard to be considered for admission to an Indiana four-year college or university. Therefore, all college-bound students are advised to select from the following as a minimum preparation for college.

English/Language Arts: 8 credits in literature, composition, and speech

| English 9-1 | English 9-2 |
| :--- | :--- |
| English 10-1 | ___ English 10-2 |
| English 11-1 | English 11-2 |
| English 12-1 | __ English 12-2 |

Mathematics: 6 credits must be earned after entering grade 9. Student must take a math or quantitative reasoning course each year of high school.

| Algebra I | Algebra I <br> Algebra II <br> Geometry <br> 2 adgebra II <br> Geometry |
| :---: | :---: |
| Gecommended: |  |

___ Finite Math
AP Statistics
Pre-Calculus
AP Calculus
$\qquad$ Finite Math
AP Statistics
Pre-Calculus APCalculus

Science: 6 credits in laboratory science from the following:
2 credits required:
Biology I
2 credits required:
__ Chemistry I
$\qquad$ Biology IPhysics I Integrated
Chemistry-Physics 2 additional credits: any Core 40 science course (see pages 43-45)

Social Studies: 6 credits distributed as follows:
2 credits required:
___ Geography and
History of the World World History
$\underline{2}$ credits required:
$\qquad$ US History 1
2 credits required:
$\qquad$ US Government

Geography and
History of the World
__ World History
__ US History 2
___ Economics

Health/ Physical Education: 3 credits
$\qquad$ PE
PE
___ Health and Wellness or 3 FACS courses
(see page 26)

Elective Credits: 14 credits
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## End of Course Assessment Passed:

___ Mathematics (Algebra I)
___ English/ Language Arts (English 10)

Total: 43 credits

## CORE 40 with Technical Honors - Students entering high school in 2012-13 and after

Students and parents should complete this form prior to meeting with the counselor in the spring semester.

## In addition to completing courses for the CORE 40 (Worksheet 4) a student must also:

Complete 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

These are available through some C9 programs and Visual Basic, Java, and A+ certification
2. Pathway dual credits from the lists of priority courses resulting in 6 transcripted college credits.
$\qquad$ Earn a "C-" or better in all required courses.
$\qquad$ Graduate with a 3.0 GPA.
___Complete one of the following:
a. One of the following:

- Four credits in two or more AP courses AND their corresponding AP exams
- Six verifiable transcripted college credits in dual enrollment courses from priority course list
- Two credits in AP course and its corresponding AP exam AND three college credits in dual enrollment courses.
- Score of 1750 or higher on the SAT with a minimum score of 530 on each section
- ACT composite score of 26 or higher and complete the writing section
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

Total Credits: 47

Career clusters represented by a career-technical program at Central-9 Career Center:

Agriculture
Architecture \& Construction
Arts AV Technology and Communication
Business \& Marketing and Information Technology
Health Science
Career pathways represented by programs at Franklin Central High School:
Business Department: Business Administration, Web \& Digital Communications, and Information Technology. Tech Ed Department: Engineering (Project Lead the Way)

Hospitality \& Human Services
Manufacturing and Logistics
Public Service
Transportation and Motor Sports Academy

## CORE 40 with Academic Honors Diploma - Students entering high school in 2012-13 \& After

The Indiana State Board of Education has established an academic honors diploma which is intended to bring honor to those students who choose challenging courses and accumulate at least 47 credits in high school. To be eligible for an academic honors diploma, a student must have a grade point average of "B" (3.0) or above. No grade lower than a "C-" may count toward the diploma. Increased opportunity for acceptance to Indiana's four-year public colleges and universities results when students exceed the Core 40 requirements to attain the Indiana Academic Honors diploma - earning 47 credits with an overall GPA of 3.0 or higher, with no grade lower than a C- in the courses which count toward the diploma. If you earned lower than a C- in a course, you may not count that course toward the 47 credits for an Academic Honors Diploma. Other courses on this list may be substituted. If you complete the requirements for the Academic Honors Diploma and meet financial need guidelines, you can receive up to $100 \%$ of approved tuition and fees at eligible Indiana colleges and universities.

Students and parents should complete this form prior to meeting with the counselor in the spring semester.
English/Language Arts: 9 credits from the following list to include literature, composition, and speech:

| English 9-1 | English 10-1 | English 11-1 | ___ English 10-2 |
| :--- | :--- | :--- | :--- |$\quad$ English 11-2 $\quad$ __ English 12-1

Mathematics: 8 credits from the following list to including one (1) upper level math course, i.e. Pre-calculus or calculus. Six (6) credits must be earned after entering grade 9. Student must take a math or quantitative reasoning course each year of high school.

| ___ Algebra I | Algebra I |
| :--- | :--- |
| Algebra II | Algebra II |
| Geometry | $\quad$ Geometry |

Finite Math
__ AP Statistics
Pre-Calculus

Finite Math AP Statistics
__ Geometry
Geometry
Pre-Calculus

Science: 6 credits in laboratory science from the following:
2 credits required:
Biology I
2 credits required:
Chemistry I
$\qquad$ Biology I
Chemistry I
___ Physics I
Integrated Chemistry-Physics (ICP) $\qquad$ Physics I

2 additional credits: any Core 40 science course (see pages 43-45)
Social Studies: 6 credits
2 credits required:
Geography and History __ Geography and History
of the World of the World
World History World History
2 credits required: US History 1
___ US History 2
2 credits required:
US Government

World Language: 6 credits from the following list in one language or four (4) credits in one language and four (4) in another language:
—————— French I, II, III, IV, or AP

Fine Arts: 2 credits in art, music, and other areas which encompass visual, performing, and creative modes of learning.
Health/ Physical Education: $3 \overline{\text { credits }}$
$\qquad$
$\qquad$ PE ___ Health and Wellness or 3 FACS courses (see page 26)

End of Course Assessment Passed: $\qquad$ Mathematics (Algebra I) $\qquad$ English/ Language Arts (English 10)

For this diploma students must meet the criteria from Worksheet 1 as well as complete one of the following:
$\qquad$ a. Four credits in two or more AP courses AND their corresponding AP exams
b. Six verifiable transcripted college credits in dual enrollment courses from priority course list
c. Two credits in AP course and its corresponding AP exam AND three college credits in dual enrollment courses.
$\qquad$ c d. Score of 1750 or higher on the SAT with a minimum score of 530 on each section

Total Credits: 47
$\qquad$ e. ACT composite score of 26 or higher and complete the writing section

## Franklin Central Honors Diploma

Students and parents should complete this form prior to meeting with the counselor in the spring semester.

In addition to the requirements necessary to earn the CORE 40 with Academic Honors Diploma, students who earn a minimum of twelve credits in Advanced Placement (weighted) courses (listed below) will attain Franklin Central's most prestigious diploma: The Franklin Central Honors
Diploma. Taking twelve Advanced Placement courses is the most rigorous course plan a student can pursue while at Franklin Central. To achieve this diploma it is recommended that students take:

- one full year Advanced Placement course in the sophomore year
- two full year Advanced Placement courses in the junior year
- three full year Advanced Placement courses in the senior year
(this can vary depending on student strengths and goals, but must total twelve credits).
Earning this respected diploma demonstrates motivation and advanced academic skills and students will be able to indicate to colleges and potential employers that they completed the most rigorous course work as a student at Franklin Central High School.

List of twelve weighted courses:

## Advanced Placement Business

AP Computer Science

## Advanced Placement Language Arts

English 9 Pre AP
English 10 Pre AP
AP English Language
AP English Literature
Advanced Placement Mathematics
Algebra II Pre AP
Geometry Pre AP
Pre-Calculus Pre AP
AP Statistics
AP Calculus AB
AP Calculus BC
Advanced Placement Performing and Visual Arts
AP Art History
AP Music Theory
AP Studio Drawing
AP Studio 2D Design
AP Studio 3D Design

## Advanced Placement Science

Biology Pre AP
AP Biology
AP Chemistry
AP Environmental Science
AP Physics

## Advanced Placement Social Studies

Geography and History of the World Pre AP
World History Pre AP
AP US History
AP US Government
AP Macro Economics
AP Psychology
AP World History

## Advanced Placement World Language

French III \& IV Pre AP
German III \& IV Pre AP
Spanish III \& IV Pre AP
AP French
AP German
AP Spanish

## Core 40 End of Course Assessments

Students must pass End of Course Assessments in English 10 and in Algebra 1 in order to graduate. As part of Indiana school accountability system under Public Law 221, Core 40 End-of-Course Assessments (ECAs) are designed to ensure the quality, consistency, and rigor of Core 40 courses across the state. Aligned with Indiana's Academic Standards, End-of-Course Assessments are final exams measuring what students know and are able to do upon completion of targeted Core 40 courses.

Students must meet the State minimum standard on both the English 10 and Algebra I exams to be eligible to graduate. A student will have multiple opportunities to take the Core 40 Exams while in high school. A waiver will be offered to students who do not pass ONLY IF they have met all of the following criteria:

1. Student takes exam every time it is offered to him/her.
2. Student takes advantage of ALL remediation opportunities.
3. Student has a $95 \%$ attendance rate throughout high school.
4. Student has 2.0 (C average) in CORE courses.
5. Student's English and Math teachers verify proficiency with a written recommendation.

## Computing GPA and Class Rank

Point System:

|  | $\mathrm{A}=4$ | $\mathrm{~A}-=3.667$ |
| :--- | :--- | :--- |
| $\mathrm{~B}+=3.333$ | $\mathrm{~B}=3$ | $\mathrm{~B}-=2.667$ |
| $\mathrm{C}+=2.333$ | $\mathrm{C}=2$ | $\mathrm{C}-=1.667$ |
| $\mathrm{D}+=1.333$ | $\mathrm{D}=1$ | $\mathrm{D}-=.667$ |
| $\mathrm{~F}=0$ |  |  |

Points are totaled from all courses. The points are then divided by the number of attempted credits to determine the grade point average. The following list of courses and the use of weighted grades is exclusive to Franklin Central High School. Transferring out of the district may affect a student's GPA and class rank.

Effective for the 2009-2010 school year, if a student receives C- or higher, in pre-AP and AP courses are weighted by giving them . 667 additional points toward their GPA calculation. For 2013-14, the following courses will receive weighted grades.

## Advanced Placement Business

AP Computer Science

## Advanced Placement Language Arts

English 9 Pre AP
English 10 Pre AP
AP English Language
AP English Literature
Advanced Placement Mathematics
Algebra II Pre AP
Geometry Pre AP
Pre-Calculus Pre AP
AP Statistics
AP Calculus AB
AP Calculus BC
Advanced Placement Performing and Visual Arts
AP Art History
AP Music Theory
AP Studio Drawing
AP Studio 2D Design
AP Studio 3D Design

## Advanced Placement Science

Biology Pre AP
AP Biology
AP Chemistry
AP Environmental Science
AP Physics

Advanced Placement Social Studies
Geography and History of the World Pre AP
AP US History
AP US Government
AP Macro Economics
AP Psychology
AP World History

## Advanced Placement World Language

French III \& IV Pre AP
German III \& IV Pre AP
Spanish III \& IV Pre AP
AP French
AP German
AP Spanish

The Indiana College and Career Pathways provide an aligned sequence of courses for students to take to better prepare them for their career interests. Below are the career pathways offered by the FCHS Business Department. If students are interested in a pathway, they should take the courses listed in that particular concentration. Students not interested in any of the pathways available through the Business Department may still opt to take any business classes they wish, as long as prerequisites are met.

$\wedge$ Microsoft Office Specialist Certification testing available.

## Dual Credit Courses

The FCHS Business Department offers several dual credit classes. This means that students earn high school credit, as well as college credit. Dual credit students must be juniors or seniors. Our dual credit classes are aligned through Ivy Tech and Vincennes University. Ivy Tech dual credit classes are free, but all students must meet minimum scores on the PSAT, SAT, or ACT, or take the Accuplacer test administered at the beginning of the course and meet a minimum score requirement. If a minimum score is not achieved on any one of these tests, dual credit is not an option for that student. The price is $\$ 25$ per credit hour - or $\$ 75$ per class. Once FCHS students graduate and move on to college, that same 3 hour class would cost approximately $\$ 150-\$ 1500$, depending on the college/university of choice. FCHS students could conceivably earn 12 hours of college credit through the FCHS Business Department and begin college as a $2^{\text {nd }}$ Semester Freshman, possibly saving thousands of dollars. Many of these dual credit courses are listed in the Indiana Core Transfer Library (http://www.transferin.net/CTL.aspx). Credits earned in these ICT Library courses should transfer to various Indiana colleges and universities, including IUPUI, BSU, IU, Purdue, etc. The final decision as to whether a college or university will accept dual credits is made by the Admissions Office of each institution.

## FCHS Business Department Dual Credit Courses Offered

(All are considered 3 credit hour college courses):

- Vincennes University
- COMP 107 - Web Design
- FCHS course name: Web Design - College Credit
- COMP 110 - Introduction to Microcomputers (Indiana Core Transfer Library Course)
- FCHS class name: Information \& Communications Technology - College Credit
- Ivy Tech
- BUSN 101 - Introduction to Business (currently in approval process)(Indiana Core Transfer Library Course)
- FCHS class name: Principles of Business Management - College Credit
- BUSN 108 - Personal Finance (Indiana Core Transfer Library Course)
- FCHS course name: Personal Financial Responsibility - College Credit
$\cdot$


# Possible Scenarios to Earning a Core 40 with Technical Honors Diploma Through the FCHS Business Department 

- Earn 6 credits in a pathway
- Earn 6 college credits (2 classes) in pathway
*Classes that fulfill 6 credits in a career pathway for the Technical Honors Diploma.
${ }^{\wedge}$ Classes that fulfill 6 hours of college credit requirement (Must take these 2 classes junior or senior year)

| Scenario 1 | Business Administration Pathway <br> $9^{\text {th }}$ Grade - Preparing for College and Careers, Digital Citizenship <br> $10^{\text {th }}$ Grade - *Introduction to Business, Accounting <br> $11^{\text {th }}$ Grade - *^Principles of Business Management, ${ }^{* \wedge}$ Information and Communications Technology <br> $12^{\text {th }}$ Grade - *Advanced Business Management or* Entrepreneurship and New Ventures, *Business Law and Ethics |
| :---: | :---: |
| Scenario 2 | Information Technology Pathway (Computer Programming) <br> $9^{\text {th }}$ Grade - Preparing for College and Careers, Digital Citizenship <br> $10^{\text {th }}$ Grade - Computer Illustration and Graphics or Web Design (both are optional) <br> $11^{\text {th }}$ Grade $-\wedge *$ Information and Communications Technology and *Computer Programming I <br> $12^{\text {th }}$ Grade - *Computer Science AP, Personal Financial Responsibility |
| Scenario 3 | Web and Digital Communications Pathway (Interactive Media) <br> $9^{\text {th }} \quad$ Grade - Preparing for College and Careers, Digital Citizenship <br> $10^{\text {th }}$ Grade -* Introduction to Communications (Offered through the Technology Education Dept.) <br> $11^{\text {th }}$ Grade - *Computer Illustration and Graphics, ${ }^{*}$ Interactive Media <br> $12^{\text {th }}$ Grade - *^Web Design-College Credit and $^{*}$ Web Design |

## Suggested Sequence of Courses for FCHS Business Dept. Career Pathways

The State of Indiana strongly encourages students in all Career Pathways to take Preparing for College and Careers (FACS Department) and Personal Financial Responsibility (Business Dept.)

| Career Pathway: Business Administration <br> Business Management Concentration |  |  |  |
| :---: | :---: | :---: | :---: |
| Grade | (*Required Courses for this Pathway) |  | Elective Courses <br> for this Pathway |
| 9 | Preparing for College <br> \& Careers | Digital Citizenship |  |
| 10 | *Introduction to <br> Business | *Principles of <br> Business <br> Management or <br> *Principles of <br> Marketing |  <br> Communications <br> Technology |
| 12 | *Advanced Business <br> Management | *Business Law and <br> Ethics | Accounting |


| Career Pathway: Business Administration <br> Entrepreneurship Concentration |  |  |  |
| :---: | :---: | :---: | :---: |
| Grade | (Required Courses for this Pathway) |  | Elective Courses <br> for this Pathway |
| 9 | Preparing for College <br> \& Careers | Digital Citizenship |  |
| 10 | Introduction to <br> Business | *Principles of <br> Business <br> Management or <br> *Principles of <br> Marketing |  <br> Communications <br> Technology |
| 12 | *Entrepreneurship <br> and New Ventures | *Business Law and <br> Ethics | Accounting |


| Career Pathway: Information Technology <br> Programming Concentration |  |  |
| :---: | :---: | :---: |
| Grade | (*Required Courses for <br> this Pathway) | Elective Courses <br> for this Pathway |
| 9 |  <br> Careers | Digital Citizenship |
| 10 | *Computer Programming I | Computer Illustration \& Graphics |
| 11 |  <br> Communications <br> Technology | Web Design, <br> Interactive Media |
| 12 | *Computer Science AP | Personal Financial Responsibility |


| Career Pathway: Web and Digital Communications Interactive Media Concentration |  |  |  |
| :---: | :---: | :---: | :---: |
| \% | (*Required Courses for this Pathway) |  | Elective Courses for this Pathway |
| 9 | Preparing for College \& Careers |  | Digital Citizenship |
| 10 | *Introduction to Communications (Through the Technology Dept.) |  |  |
| 11 | *Computer Illustration \& Graphics |  | Information \& Communications Technology |
| 12 | *Interactive Media | *Web Design | Personal Financial Responsibility |

ACCOUNTING (Formerly - Business, Management \& Finance II)
2 semesters / 2 credits
Grades 11-12
Prerequisite - None
Accounting introduces the language of business using Generally Accepted Accounting Principles (GAAP) and procedures for proprietorships and partnerships using double-entry accounting. Emphasis is placed on accounting principles as they relate to both manual and automated financial systems. This course involves understanding, analyzing, and recording business transactions and preparing, analyzing, and interpreting financial reports as a basis for decision making.

## ADVANCED BUSINESS MANAGEMENT (New Class)

2 semesters / 2 credits
Grade 11-12
Prerequisites: Principles of Business Management or Principles of Marketing
Advanced Business Management prepares students to plan, organize, direct, and control the functions and processes of a firm or organization and be successful in a work environment. Students are provided opportunities to develop attitudes and apply skills and knowledge in the areas of business administration, management, and finance. Students will apply this knowledge by running a schoolbased business.

BUSINESS LAW AND ETHICS (Formerly - Business, Management \& Finance III)
1 semester / 1 credit
Grades 10-12
Prerequisites: None
Business Law and Ethics begins by providing an overview of the legal system. Topics covered include: Basics of the Law, Contract Law, Employment Law, Personal Law, and Property Law. Legal and ethical issues in the workplace, as well as government regulations and their effect on business will also be covered. Both criminal and civil trial procedures are presented.

## BUSINESS MATH

2 semesters / 2 credits
Grade 12
Recommended Prerequisite: Algebra I
Business Math is a business course designed to prepare students for roles as entrepreneurs, producers, and business leaders by developing abilities and skills that are part of any business environment. A solid understanding of math including algebra, basic geometry, statistics and probability provides the necessary foundation for students interested in careers in business and skilled trade areas. The content includes mathematical operations related to accounting, banking and finance, marketing, and management. Instructional strategies should include simulations, guest speakers, tours, Internet research, and business experiences.

Grades 10-12
Prerequisites: None
Computer Illustration and Graphics introduces students to the computer's use in visual communication. Students will learn visual arts techniques and apply them in the design and creation of advertising and promotional materials, display, and instructional manuals. Other documents to be created include newsletters, flyers, brochures, business documents, and personal documents. Students will learn to use text and graphics in creating effective designs and product packaging.

COMPUTER PROGRAMMING I (Formerly - Interactive Media III) 2 semesters / 2 credits

## Grades 10-12

Prerequisites: Algebra I
Computer Programming I is designed for the college bound student interested in math, science, engineering, and technology. No computer programming experience is necessary. This course will provide students with a basic understanding of computer programming using the Microsoft Visual Basic.NET object-oriented programming language. Students will problem solve and create real-world applications by planning, designing, coding, testing, and documenting their own interactive programs.

## COMPUTER SCIENCE AP

2 semesters / 2 credits

## Grades 11-12

Prerequisites: Concurrently with Information and Communications Technology, Algebra I, and Algebra II
Computer Science A, Advanced Placement is a business course that provides students with the content established by the College Board. Topics include: object-oriented program design, program implementation, program analysis, standard data structures, standard algorithms, and computing in context. Computer Science A emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development. Java is the programming language that will be used. All students will take the AP Computer Science test at the end of the year.

DIGITAL CITIZENSHIP (Formerly - Digital Communication Tools)
1 semester / 1 credit
Grade 9-10
Prerequisites: None
Digital Citizenship prepares students to use computer technology in an effective and appropriate manner. Students develop knowledge of word processing, spreadsheets, presentation and communications software. Students establish what it means to be a good digital citizen and how to use technology appropriately. Proper keyboarding technique and speed will also be a focus.

## ENTREPRENEURSHIP AND NEW VENTURES

2 semesters / 2 credits
Grades 11-12
Prerequisites: Principles of Marketing
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.

INFORMATION AND COMMUNICATIONS TECHNOLOGY-COLLEGE CREDIT (Formerly - Business Tech Lab) 2 semesters/2 credits
Grades 11-12
Prerequisites: None
Dual Credit: COMP 110 - Vincennes University; Indiana Core Transfer Library
This course, a dual credit class aligned with Vincennes University, would be an excellent choice for every FCHS student. Students can earn high school and college credit while also having an opportunity to earn a Microsoft certification. This course is also part of the Indiana Core Transfer Library, thus the credit earned should be transferrable to many Indiana colleges and universities, including Ball State, IU, Purdue, IUPUI, and Indiana State. Strong computer skills, a must in today's job market, will be the focus of this class, as students use technology, primarily Microsoft Office 2010 to create documents applicable to home, school, future jobs, and college. Students will use word processing (MS Word) and databases (MS Access) extensively first semester. Second semester, the focus will be on creating/editing spreadsheets (MS Excel) and presentations (MS PowerPoint). Students will develop efficient and practical computer skills beyond the basics. Internet usage and basic computer hardware and software knowledge will also be incorporated throughout the entire course. At the end of each program unit (Word, Excel, Access, and PowerPoint), students will take a Microsoft Office Specialist (MOS) certification exam.

## INTERACTIVE MEDIA

2 semesters / 2 credits
Grades 11-12
Prerequisites: Concurrently with Information and Communications Technology or Introduction to Communications
Interactive Media prepares students for careers in business and industry working with interactive media products and services; which includes the entertainment industries. This course emphasizes the development of digitally generated or computer-enhanced products using multimedia technologies. Students will work individually and in teams to design, develop, and implement digital media projects. Students will also develop an understanding of professional business practices including the importance of ethics, communication skills, and knowledge of the "virtual workplace".

## Grades 9-10

Prerequisites: None
Introduction to Business introduces students to the world of business, marketing and entrepreneurship including the concepts, functions, and skills required for meeting the challenges of operating a business in the twenty-first century on a local, national, and international scale. The course further develops business vocabulary and provides an overview of business and the role that business plays in economic, social, and political environments.

## PERSONAL FINANCIAL RESPONSIBILITY-COLLEGE CREDIT

1 semester / 1 credit
Grades 11-12 (Must be a junior or senior to earn college credit)
Prerequisites: None

## Dual Credit - BUSN 108, Ivy Tech; Indiana Core Transfer Library

This course is a one-semester dual credit class aligned with Ivy Tech. Students can earn high school and college credit while planning for their financial futures. Students will create a comprehensive financial plan after learning about incomes, taxes, budgets, insurance, credit, investment options, and retirement and estate planning. This course is also part of the Indiana Core Transfer Library, thus the credit earned should be transferrable to many Indiana colleges and universities, including Ball State, IU, Purdue, IUPUI, and Indiana State.

## PRINCIPLES OF BUSINESS MANAGEMENT - COLLEGE CREDIT (Formerly - Business, Management and Finance I)

## Grades 11-12

1 semester / 1 credit
Prerequisites: None

## Dual Credit (in process of getting approved) - BUSN 101, Ivy Tech; Indiana Core Transfer Library

This course is a one-semester dual credit class aligned with lvy Tech. This course is also part of the Indiana Core Transfer Library, thus the credit earned should be transferrable to many Indiana colleges and universities, including Ball State, IU, Purdue, IUPUI, and Indiana State. Principles of Business Management focuses on the roles and responsibilities of managers as well as opportunities and challenges of ethically managing a business in our free enterprise system. Students will attain an understanding of management, team building, leadership, problem solving steps and processes that contribute to the achievement of organizational goals. The management of human and financial resources is emphasized.

PRINCIPLES OF MARKETING (Formerly - Business, Management and Finance I)
1 semester / 1 credit
Grades 10-12
Prerequisites: None
Principles of Marketing provides a basic introduction to the importance of marketing in our global economy. Students will learn about advertising/promotion/selling, distribution, financing, marketing information management, pricing, and product/service management.

WEB DESIGN - COLLEGE CREDIT (Formerly - Interactive Media II) 2 semesters / 2 credits
Grades 11-12
Prerequisite: Algebra 1

## Dual Credit - COMP 107, Vincennes University

This course will train students to create websites using XHTML and NotePad. The course is project-based and provides hands-on experience in the creation of websites. Students may take this course first semester for college credit and remain in Web Design for the second semester. Students can earn 3 college credits through Vincennes University (Comp 107).

Juniors and seniors in ten participating school districts have the opportunity to enroll at Central Nine. Students need to complete an application and are selected by the respective high schools on the basis of sincere interest, necessary aptitudes and abilities, attendance, and past performance. Applications are accepted January through March of sophomore or junior years. Juniors must have 21 credits at the beginning of their junior year in order to take courses at Central Nine. Seniors must have 29 courses at the start of the senior year in order to enroll in Central Nine courses. Enrollees receive four (4) credits per semester for successful completion of course requirements.

There is the opportunity for cooperative training during the senior year in several of the programs, allowing paid, on-the-job training with various area employers. **SPECIAL NOTE** Central Nine charges additional course fees for their classes taken. Additional information is also available at www.central9.k12.in.us.

Transportation: Buses transport students daily to their elective career program at Central Nine for periods one through four, and return students to Franklin Central for periods five through seven for completion of required academic classes and participation in extracurricular activities. Senior students enrolled in off-campus programs are required to provide their own transportation.

## Career Clusters

## Agriculture

Landscape Management and Horticulture Science

## Grade

11-12
Architecture \& Construction
Construction Technology 11-12
Mechanical Drafting and Design 11-12
Arts, AV Technology \& Communication Visual Communications

11-12
Business \& Marketing and Information Technology
Computer Programming
Professional Career Internship
Health Science
Health Science 1
Health Science 2: Nursing (CNA)
Health Science 2: Medical Assisting
Health Science 2: Pharmacy
Veterinary Careers
Dental Careers
Project Lead the Way: Biomedical Sciences
Principles of the Biomedical Sciences
(Semester one)
Human Body Systems
(Semester two)
Medical Intervention
(Semester three)
Science Research
(Semester four)
Hospitality \& Human Services
Culinary Arts \& Hospitality Management 11-12
Advanced Culinary Arts 12
Advanced Hospitality Management 12 Cosmetology
Manufacturing and Logistics: Electronics \& Computer Technology 11-12 Computer Programming 11-12 Precision Machine Technology 11-12 Welding Technology 11-12
Public Service Criminal Justice 11-12
Fire \& Rescue
Emergency Medical Services
11-12
12
11-12
Automotive Collision Repair Technology
Automotive Services Technology
Diesel Service Technology
Aviation Operations
Aviation Maintenance Technology
Tractor/Trailer Operation

## Prerequisites

Transportation, Teacher Approval

Transportation, Teacher Approval
Transportation, 18 by March 15
semester one
semesters one \& two
semesters one - three

Transportation, selection process

17 by April $1^{\text {st }}$ 18 by April $1^{\text {st }}$

Transportation (pm only class)
Transportation
Transportation; 18 year by April 1

Grade level: 11, 12
Anatomy \& Physiology is a course in which students investigate concepts related to Health Science, with emphasis on interdependence of systems and contributions of each system to the maintenance of a healthy body. Introduces students to the cell, which is the basic structural and functional united of all organisms, and covers tissues, integument, skeleton, muscular and nervous systems as an integrated unit. Through instruction, including laboratory activities, students apply concepts associated with Human Anatomy \& Physiology. Students will understand the structure, organization and function of the various components of the healthy body in order to apply this knowledge in all health related fields. Anatomy and Physiology and Medical Terminology is taught in conjunction with Health Science Education 1.

## AUTOMOTIVE COLLISION REPAIR TECHNOLOGY I

## 2-4 Semesters / 4 Credits per Semester

Grade Level: 11, 12
Automotive Collision Repair Technology I includes classroom and laboratory experiences concerned with all phases of the repair of damaged vehicle bodies and frames, including metal straightening; smoothing areas by filing, grinding, or sanding; concealment of imperfections; painting; and replacement of body components including trim. Students examine the characteristics of body metals including the installation of moldings, ornaments, and fasteners with emphasis on sheet metal analysis and safety. Course coverage also includes instruction in personal and environmental safety practices as related to OSHA and other agencies that affect individuals working in the ground transportation technology areas. Additional instruction is given in the course on measurement principles and automotive fasteners. Instruction should also emphasize computerized frame diagnosis, computerized color-mixing, and computerized estimating of repair costs. Additional academic skills taught in this course include precision measurement and mathematical calibrations as well as scientific principles related to adhesive compounds, color-mixing, abrasive materials, metallurgy, and composite materials.

## Career Opportunities: Auto Body Owner/Technician, Paint and Frame Specialist, Insurance Claim Estimator

## AUTOMOTIVE SERVICES TECHNOLOGY I

2 Semesters / 4 Credits per Semester
Grade Level: 11, 12
Automotive Services Technology I is a one year course that encompasses the sub topics of the NATEF/ ASE identified areas of Steering \& Suspension and Braking Systems. This one year course offering may be structured in a series of two topics per year offered in any combination of instructional strategies of semester based or yearlong instruction. Additional areas of manual transmissions and differentials, automatic transmissions, air conditioning, and engine repair should be covered as time permits. This one year offering must meet the NATEF program certifications for the two primary areas offered in this course. This course provides the opportunity for dual credit for students who meet postsecondary requirements for earning dual credit and successfully complete the dual credit requirements of this course. Mathematical skills will be reinforced through precision measuring activities and cost estimation/ calculation activities. Scientific principles taught and reinforced in this course include the study of viscosity, friction, thermal expansion, and compound solutions. Written and oral skills will also be emphasized to help students communicate with customers, colleagues, and supervisors. Dual Credit Opportunities Available. Career Opportunities: Auto Service Technician/Management, Parts Manager, Specialty Shop Technician, Dealership Sales and Service

## AUTOMOTIVE SERVICES TECHNOLOGY II

2 Semesters / 4 Credits per Semester

## Grade Level: 11, 12

Automotive Services Technology II is a one year course that encompasses the sub topics of the NATEF/ASE identified areas of Electrical Systems and Engine Performance. This one year course offering may be structured in a series of two topics per year offered in any combination of instructional strategies of semester based or yearlong instruction. Additional areas of manual transmissions /differentials, automatic transmissions, air conditioning, and engine repair should be covered as time permits. This one-year offering must meet the NATEF program certifications for the two primary areas offered in this course. Mathematical skills will be reinforced through precision measuring activities and cost estimation/calculation activities. Scientific principles taught and reinforced in this course include the study of viscosity, friction, thermal expansion, and compound solutions. Written and oral skills will also be emphasized to help students communicate with customers, colleagues, and supervisors. Dual Credit Opportunities Available. Career Opportunities: Auto Service Technician/Management, Parts Manager, Specialty Shop Technician, Dealership Sales and Service

## AVIATION MAINTENANCE

2 Semesters / 4 Credits per semester
Grade Level: 12
Aviation Maintenance is a comprehensive course that familiarizes the student with Federal Aviation Regulations, weight and balance, ground operation, maintenance forms and records, non-destructive \testing methods, aircraft paint and refinishing systems and the basics of aircraft welding. The course also covers various onboard systems including cabin atmospheric control systems, pressurization and fire detection/extinguishing systems. This course familiarizes students with the inspection, damage evaluation and repair of composite and wood structures, windows and fabric covering systems used on aircraft. Central Nine Career Center works with Vincennes University for instructional services. During the senior year, the student has the potential to earn up to eight credits toward high school graduation as well as 16 credits toward the freshman year in college. Dual credit opportunities available. Career Opportunities: Entry-level Aviation Technician; Flight Technician

Certification: (FAA) Students can be certified by the Federal Aviation Administration only after they successfully completed an approved course of study (two-year or four-year program) such as the one offered through Vincennes University.
Students must provide their own transportation to Vincennes University Technology Center at the Indianapolis International Airport

## AVIATION OPERATIONS

2 Semesters / 4 Credits per semester
Grade level: 11, 12
Aviation Operations provides students with a broad-based introduction to the field of aviation. Course activities include: familiarization with aviation technology; a historic overview of the field of aviation; exploration of the current aviation environment and careers and employment opportunities in the field. Topics are focused on aircraft manufacturing, airline operations, general aviation, air-freight, airport management,
and government service. Additional topics covered include: aviation safety, human factors, regulations, and certification. This course is designed to enhance the students' knowledge of the pertinent areas of aircraft basic science that comprise the scientific fundamentals applied in all areas of the aviation industry. Although not scientific in nature, the fundamental areas of the federal aviation regulations, pertinent to aviation operations, are also introduced in this course. Flight topics will include basic aerodynamics, flight maneuvers, and aircraft power plants. Students will have the opportunity to be endorsed for the Private Pilot knowledge test. Dual credit opportunities available. Career Opportunities: Air Traffic Control Specialist; Airline Manager; Aircraft Maintenance manager; Private Pilot; Professional Pilot

## BIOMEDICAL INNOVATION PLTW

2 Semesters / 2 Credits per semester

## Grade level: 11, 12

Prerequisites: Principles of Biomedical Sciences, and Human Body Systems
PLTW Biomedical Innovation is a capstone course designed to give students the opportunity to design innovative solutions for the health challenges of the 21st century as they work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. They have the opportunity to work on an independent project and may work with a mentor or advisor from a university, hospital, physician's office, or industry. Throughout the course, students are expected to present their work to an adult audience that may include representatives from the local business and healthcare community. Medical Interventions is taught in conjunction with Biomedical Innovation

## CIVIL ENGINEERING AND ARCHITECTURE (PLTW)

2 Semesters / 2 Credits per semester
Grade level: 11, 12
Civil Engineering and Architecture introduces students to the fundamental design and development aspects of civil engineering and architectural planning activities. Application and design principles will be used in conjunction with mathematical and scientific knowledge. Computer software programs should allow students opportunities to design, simulate, and evaluate the construction of buildings and communities. During the planning and design phases, instructional emphasis should be placed on related transportation, water resource, and environmental issues. Activities should include the preparation of cost estimates as well as a review of regulatory procedures that would affect the project design. Civil Engineering and Architecture is taught in conjunction with Introduction to Engineering Design

## COMPUTER INTEGRATED MANUFACTURING (PLTW)

2 Semesters / 2 Credits per semester
Grade level: 11, 12
Computer Integrated Manufacturing is a course that applies principles of rapid prototyping, robotics, and automation. This course builds upon the computer solid modeling skills developed in Introduction of Engineering Design. Students will use computer controlled rapid prototyping and CNC equipment to solve problems by constructing actual models of their three-dimensional designs. Students will also be introduced to the fundamentals of robotics and how this equipment is used in an automated manufacturing environment. Students will evaluate their design solutions using various techniques of analysis and make appropriate modifications before producing their prototypes. Computer Integrated Manufacturing is taught in conjunction with Digital Electronics

## COMPUTER PROGRAMMING I

2-4 Semesters / 4 credits per semester
Grade level: 11, 12
Computer Programming I covers fundamental concepts of programming are provided through explanations and effects of commands, and hands-on utilization of lab equipment to product correct output. This course introduces the structured techniques necessary for efficient solution of business-related computer programming logic problems and coding solutions into a high-level language. Includes program flowcharting, pseudo coding, and hierarchy charts as a means of solving these problems. The course covers creating file layouts, print charts, program narratives, user documentation, and system flowcharts for business problems. Reviews algorithm development, flowcharting, input/output techniques, looping, modules, selection structures, file handling, and control breaks. Offers students an opportunity to apply skills in a laboratory environment. Visual Basic is the only (computer) language being examined and utilized. Students will learn 2D and 3D computer Game Design using 3DS Max, Anim8tor and Game Maker software to name a few. By the end of the year students will create an interactive game to demonstrate for their final project of the course. Dual Credit Opportunities Available. Career Opportunities: IT Support; Computer Technician; Network Administrator; Systems Analyst; Help Desk Technician; Software Engineer; Computer Programmer; Software QA tester

## CONSTRUCTION TECHNOLOGY I

2-4 Semesters / 4 credits per semester
Grade level: 11, 12
Construction Technology 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. Dual Credit Opportunities Available. Career Opportunities: Carpentry; Masonry; Construction Management; Building Material Sales

Grade level: 12
Cosmetology I offers an introduction to cosmetology with emphasis on basic practical skills and theories including roller control, quick styling, shampooing, hair coloring, permanent waving, facials, manicuring business and personal ethics, and bacteriology and sanitation. In the second semester greater emphasis is placed on the application and development of these skills. State of Indiana requires a total of 1500 hours of instruction for licensure. Clock hours set by the State Licensing Board. Career Opportunities: Product Sales and Marketing; Cosmetologist; Manicurist; Salon Owner
Certification: (Indiana State Beauty Board License) Students successfully completing the procedures and 1,500 hours of required class time are eligible to take the Indiana State Beauty Board examination to become a licensed cosmetologist.
Central Nine Career Center works with Paul Mitchell The School Indianapolis for instructional services. Students start the program the summer prior to their senior year and complete the program the following fall after graduation. Students must provide their own transportation to Paul Mitchell the School Indianapolis.

## CRIMINAL JUSTICE I

2 Semesters / 4 Credits per semester
Grade level: 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. This course provides the opportunity for dual credit for students who meet postsecondary requirements for earning dual credit and successfully complete the dual credit requirements of this course. Dual Credit Opportunities Available. Career Opportunities: Detective; Security Officer; Corrections Officer; Conservation Officer; Dispatch

## CRIMINAL JUSTICE II

2 Semesters / 4 Credits per semester
Grade level: 11, 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 Opportunities Available. Career Opportunities: Detective; Security Officer; Corrections Officer; Conservation Officer; Dispatch

## CULINARY ARTS \& HOSPITALITY MANAGEMENT

2 Semesters / 4 Credits per semester
Grade level: 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. Articulation with postsecondary programs is encouraged.

## ADVANCED HOSPITALITY MANAGEMENT

## 2 Semesters / 4 Credits Semester

## Grade level: 11, 12

Prerequisite: Culinary Arts and Hospitality Management
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 schoolbased or "on the job" in community-based hospitality settings, or in a combination of the two. This course is the capstone exponent that focuses on the daily operations, hospitality and management of To The Nines Restaurant. Dual Credit Opportunities Available. Career Opportunities: Chef; Line Cook; Restaurant Manager; Hospitality Industry
Certifications: Prostart and ServSafe

## ADVANCED CULINARY ARTS

2 Semesters / 4 Credits Semester
Grade level: 11, 12
Prerequisite: Culinary Arts and Hospitality Management
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. Students are monitored in these experiences by the Advanced Culinary Arts teacher. Articulation with postsecondary programs is encouraged. Dual Credit Opportunities Available. Career
Opportunities: Chef; Line Cook; Restaurant Manager; Hospitality Industry
Certifications: Prostart and ServSafe

## DENTAL CAREERS I

2-4 Semesters / 4 Credits per semester
Grade Level: 11, 12
Dental Careers I prepares the student for an entry level dental assisting position. Emphasis is placed on the clinical environment, chair-side assisting, equipment/instrument identification, tray set-ups, sterilization, and characteristics of microorganisms and disease control. In addition, oral, head and neck anatomy, basic embryology, histology, tooth morphology, charting dental surfaces, and illness are all introduced. Simulated in-school laboratories and/or extended laboratory experiences are also included to provide opportunities for students to further develop clinical skills and the appropriate ethical behavior. Career Opportunities: Dental Assistant; Expanded Functions Dental Assistant; Dental Administration; Dental Hygienist; Dental Lab Technician
Certification: DANB: Dental Assisting National Board
DIGITAL ELECTRONICS (PLTW)
2 Semesters / 2 Credits per semester
Grade level: 11, 12
Digital Electronics is a course of study in applied digital logic that encompasses the design and application of electronic circuits and devices found in video games, watches, calculators, digital cameras, and thousands of other devices. Instruction includes the application of engineering and scientific principles as well as the use of Boolean algebra to solve design problems. Using computer software that reflects current industry standards, activities should provide opportunities for students to design, construct, test, and analyze simple and complex digital circuitry software will be used to develop and evaluate the product design. This course engages students in critical thinking and problem-solving skills, time management and teamwork skills. Digital Electronics is taught in conjunction with Computer Integrated Manufacturing

## DIESEL SERVICE TECHNOLOGY II

2 Semesters / 4 Credits per semester
Grade level: 11, 12
Diesel Service Technology II includes classroom and laboratory experiences concerned with all phases of repair work on diesel electrical systems used to power buses, ships, trucks, railroad trains, electrical generators, construction machinery, and similar equipment. Instruction and practice is provided in the diagnostics and repair of electrical/electronic systems. Students will demonstrate performance of these tasks as defined by ASE/NATEF standards. Use of technical manuals, hand and power tools and of testing and diagnostic equipment are also studied in the course. Instruction in personal and environmental safety practices as related to OSHA and other agencies that affect individuals working in the ground transportation technology areas. This course addresses the fundamental theories of electricity and electronics as applied to ground transportation technology area. Utilization of analog and digital meters, wiring diagrams, and other diagnostic tools will be stressed in a hands-on course that introduces the student to automotive electrical theory, batteries, charging systems, starting systems, wiring repairs, lighting systems and accessories. Dual Credit Opportunities Available. Career Opportunities: Truck Service and Repair Technician; Parts and Service Advisor; Construction Equipment Technician

## ELECTRONICS AND COMPUTER TECHNOLOGY II

2 Semesters / 4 Credits per semester
Grade level: 11, 12
Recommended Prerequisite: Completion of Algebra I with a C or better
Electronics and Computer Technology II provides the opportunity for students to continue with foundational electronic concepts including circuit analysis and digital electronics modules. After completing the two additional foundational modules, student may choose to focus on one of the optional modules that can include more intense instruction, research, specialized projects, and internships. The optional modules include industrial technology, emerging electronic technologies, residential and commercial electronic communication, and automation. The content of this class is designed to provide the State of Indiana with a trained workforce in emerging technologies career pathways that will make a significant contribution to the Indiana economy. Industry certifications and additional post-secondary education are critical components of this pathway. Classroom, laboratory, and work-based experiences in the fundamental electronics concepts of circuit analysis and digital electronics as well as one of the optional modules will incorporate safety, technical writing, mathematics, and customer service. Career \& Technical Student Organization: Students participate in community service projects and various skills competitions thought Skills USA. Through these activities students develop leadership and organizational skills, team building, interpersonal communications and enhanced technical skills. Dual Credit Opportunities Available. Career Opportunities Available: Electrician; Auto/Visual Equipment Repair; Computer Repair Technician; Electronic Technician; Electrical Engineer

## EMERGENCY MEDICAL SERVICES

2 Semesters / 4 Credits per semester
Grade level: 12 (Students must be 18 before April 1)
Emergency Medical Services prepares students for a State certification which could lead to a career in Emergency Medical Services such as an Emergency Medical Technician or a Paramedic. This course is designed for persons desiring to perform emergency medical care. Students will learn to recognize the seriousness of the patient's condition, use the appropriate emergency care techniques and equipment to stabilize the patient, and transport them to the hospital. This course also addresses the handling of victims of hazardous materials accidents. It covers theories, techniques, and operational aspects of pre-hospital emergency care with the scope and responsibility of the basic emergency medical technician. It requires laboratory practice and clinical observation in a hospital emergency room and ambulance.

Participation in HOSA affords the student the opportunity to compete in a variety of competitive events, specifically CPR/First Aid and EMT, at both the state and national. Career Opportunities: Ambulance EMT; Emergency Room EMT; Dispatcher in communications center; Paramedic
Certification: EMT Basic

## FIRE AND RESCUE I

2 Semesters / 4 Credits per semester
Grade level: 11, 12 (Students must be 17 before April 1)
Fire and Rescue l; 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. Career Opportunities: Fire Fighter; Hazardous Materials
Responder; Fire Investigator; Fire Inspector
Certification: Fire Fighter I\&II

## HEALTH SCIENCE EDUCATION I

2 Semesters / 2 Credits per semester
Grade level 11, 12
Health Science Education I content includes skills common to specific health career topics such as patient nursing care, dental care, animal care, medical laboratory, public health, an introduction to health care systems, anatomy, physiology, and medical terminology. Leadership skills developed through HOSA participation are also included. Lab experiences are organized and planned around the activities associated with the student's career objectives. Job seeking and job maintenance skills, personal management skills, self-analysis to aid in career selection and completion of the application process for admission into a post-secondary program of their choice are also included in this course. Anatomy and Physiology and Medical Terminology is taught in conjunction with Health Science Education 1. Dual Credit Opportunities Available. Career Opportunities: Home Health Aide; Child Care Worker; Office Assistant; Medical Records Technician

## HEALTH SCIENCE EDUCATION II: NURSING

2 Semesters / 4 Credits per semester
Grade level: 11, 12
Prerequisite: Application and Interview with instructor
Health Science Education II: Nursing is an extended laboratory experience at the student's choice of clinical site designed to provide students the opportunity to assume the role of nurse assisting 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 nurses. These knowledge and skills include recording patient medical histories and symptoms, providing medicine and treatments, consulting doctors, operating and monitoring medical equipment, performing diagnostic tests, teaching patients and families how to manage illness or injury, and perform general health screenings. This course also provides students with the knowledge, attitudes, and skills needed to make the transition from school to work in the field of nurse assisting, 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.

## Dual Credit Opportunities Available

Certification: CNA (Certified Nursing Assistance) Students who successfully complete the academic and attendance requirements will qualify to sit for the certification exam.
Students in this program must have:

- Must be 17 by November 1st
- A valid driver's license and Reliable transportation
- Proof of liability insurance
- Clean discipline record
- GPA of 2.0 or higher
- Clean Criminal History
- 2 step PPD (Tuberculosis skin test)


## HEALTH SCIENCE EDUCATION II: PHARMACY

2 Semesters / 2 Credits per semester
Grade level: 12 (Students must be 18 by March 15) Prerequisites: Strong is Math, English, and Science Introduction to Pharmacy introduces students to the field of pharmacy and provides opportunity for exploration of career options within the discipline. Varied instructional strategies and technologies are used to help students gain insight into the roles and responsibilities of the pharmaceutical team, state and federal regulations, pharmaceutical agents, prescription processing, pharmacy maintenance, retail sales, and the impact of pharmaceuticals on the delivery of health care in society. This class meets Mondays and Wednesday from 3:30-5:00 first semester and Monday's from 3:30-5:00 second semester.

## HEALTH SCIENCE II: SPECIAL TOPICS: MEDICAL ASSISTING

2 Semesters / 4 Credits per semester
Grade level: 12
Health Science Education II: Special Topics is an extended laboratory experience designed to address the advancement and specialization of health care careers allowing schools to provide a specialized course for a specific healthcare workforce need in the school's region. 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 health practitioners. 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. Course standards and curriculum must be tailored to the specific healthcare profession preparing students to advance in this career field. Medical Assisting is taught through Kaplan College

Horticulture Science is a two semester course designed to give students a background in the field of horticulture and its many career opportunities. It addresses the biology and technology involved in the production, processing and marketing of plants and its products. Topics covered include: reproduction and propagation of plants, plant growth, growth media, management practices for field and greenhouse production, marketing concepts, production of plants of local interest and pest management. Students participate in a variety of activities to include extensive laboratory work usually in a school greenhouse, leadership development, supervised agricultural experience and learning about career opportunities in the area of horticulture science. Landscape Management is taught in conjunction with Horticultural Science.

## HUMAN BODY SYSTEMS (PLTW)

2 Semesters / 2 Credits per semester
Grade level: 11, 12
Recommended Prerequisite: Completed Biology 1 with a C or higher
PLTW Human Body Systems is a course designed to engage students in the study of basic human physiology and the care and maintenance required to support the complex systems. Using a focus on human health, students will employ a variety of monitors to examine body systems (respiratory, circulatory, and nervous) at rest and under stress, and observe the interactions between the various body systems. Students will use appropriate software to design and build systems to monitor body functions. Principles of Biomedical Sciences is taught in conjunction with Human Body Systems.

## INTRODUCTION TO ENGINEERING DESIGN

2 Semesters / 2 Credits per semester
Grade level: 11, 12
Introduction to Engineering Design is an introductory course which develops student problem solving skills using the design process. Students document their progress of solutions as they move through the design process. Students develop solutions using elements of design and manufacturability concepts. They develop hand sketches using 2D and 3D drawing techniques. Computer Aided Design (CAD). Introduction to Engineering Design is taught in conjunction with Civil Engineering and Architecture

## LANDSCAPE MANAGEMENT I

2-4 Semesters / 2 Credits per semester
Grade level: 11, 12
Landscape Management is a two semester course that provides the student with an overview of the many career opportunities in the diverse field of landscape management. Students are introduced to the procedures used in the planning and design of a landscape using current technology practices, the principles and procedures of landscape construction, the determination of maintenance schedules, communications and management skills necessary in landscape operations and the care and use of equipment utilized by landscapers. Students will also participate in leadership development, supervised agricultural experience and career exploration activities in the area of landscape management. Upon completion of the program, students have the opportunity to become Indiana Landscape Industry Certified through a state approved program. Students who are enrolled in Landscape Management also participate in Central Nine FFA. Landscape Management is taught in conjunction with Horticultural Science. Dual Credit Opportunities Available. Career Opportunities: Landscape Design; Landscape Management; Greenhouse Operations/Management; Golf Course or Park Maintenance

## MEDICAL INTERVENTIONS (PLTW)

2 Semesters / 2 Credits per semester
Grade level: 11, 12
Prerequisites: Principles of Biomedical Sciences, and Human Body Systems
PLTW Medical Interventions is a course that studies medical practices including interventions to support humans in treating disease and maintaining health. Using a project-based learning approach, students will investigate various medical interventions that extend and improve quality of life, including gene therapy, pharmacology, surgery, prosthetics, rehabilitation, and supportive care. Students will also study the design and development of various interventions including vascular stents, cochlear implants, and prosthetic limbs. Lessons will cover the history of organ transplants and gene therapy with additional readings from current scientific literature addressing cutting edge developments. Using 3-D imaging software, students will design and build a model of a therapeutic protein. Medical Interventions is taught in conjunction with Biomedical Innovation

## MEDICAL TERMINOLOGY

2 Semesters / 1 Credit per Semester
Grade level: 11, 12
Medical Terminology prepares students with language skills necessary for effective, independent use of health and medical reference materials. It includes the study of health and medical abbreviations, symbols, and Greek and Latin word part meanings taught within the context of body systems. This course builds skills in pronouncing, spelling, and defining new words encountered in verbal and written information. Students have the opportunity to acquire skills in interpreting medical records and communications accurately and logically. Emphasis is on forming a foundation for a medical vocabulary including meaning, spelling, and pronunciation. Medical abbreviations, signs, and symbols are included. Anatomy and Physiology and Medical Terminology is taught in conjunction with Health Science Education. Dual Credit Opportunities Available

MECHANICAL DRAFTING AND DESIGN I
2 Semesters / 4 Credits per semester
Grade level: 11, 12
Mechanical Drafting and Design I provides students with a basic understanding of the detailing skills commonly used by a drafting technician. Areas of study include: lettering, sketching, proper use of equipment, geometric constructions with emphasis on orthographic (multi-view) drawings that are dimensioned and noted to ANSI standards. Another purpose of this course is to provide students with a basic understanding of the features and considerations associated with the operation of a computer-aided design (CAD) system. Students will gain valuable hands-on experience with Auto CAD. They will be expected to complete several projects (increasing in difficulty) relating to command topics. Topics include: 2D drawing commands, coordinate systems, editing commands, paper and model space, inquiry
commands, layers, plotting, text, and basic dimensioning. Dual Credit Opportunities Available. Career Opportunities: Mechanical, Civil or Architectural Technician; Computer Graphics Designer; Land Surveyor

## MECHANICAL DRAFTING AND DESIGN II

2 Semesters / 4 Credits per semester
Grade level: 11, 12
Mechanical Drafting and Design I/ covers working drawings both in detailing and assembly. Presents fastening devices, thread symbols and nomenclature, surface texture symbols, classes of fits, and the use of parts lists, title blocks and revision blocks. This course will also focus on advanced CAD features, including fundamentals of three-dimensional modeling for design. This includes an overview of modeling, graphical manipulation, part structuring, coordinate system, and developing strategy of modeling. Advanced CAD will enable the student to make the transition from 2D drafting to 3D modeling. Students will draw and calculate three dimensional problems. Theory and methods include graphic developments and the relationships between points, lines and planes, curved lines and surfaces, intersections, and development. Computer software and hardware experiences, as they relate to technology students, will be covered. Dual Credit Opportunities Available. Career Opportunities: Mechanical, Civil or Architectural Technician; Computer Graphics Designer; Land Surveyor

## PRECISION MACHINING I

2 Semesters / 4 Credits per semester
Grade level: 11, 12
Precision Machining I is designed to provide students with a basic understanding of the precision machining processes used in industry, manufacturing, maintenance, and repair. The course instructs the student in industrial safety, terminology, tools and machine tools, measurement and layout. Students will become familiar with the setup and operation of power saws, drill presses, lathes, milling machines, grinders and an introduction to CNC (computer controlled) machines. Dual Credit Opportunities Available. Career Opportunities: CNC Machinist; CNC Operator; Tool Maker; Quality Control Inspector; Mold Maker

## PRECISION MACHINING II

2 Semesters / 4 Credits per semester
Grade level: 11, 12
Recommended Prerequisites: Algebra, Geometry, Precision Machining I
Precision Machining II is a more in-depth study of skills learned in Precision Machining I with a stronger focus in CNC setup/operation/programming. Classroom activities will concentrate on precision set-up and inspection work as well as machine shop calculations. Students will develop skills in advanced machining and measuring parts involving tighter tolerances and more complex geometry. A continued focus on safety will also be included. Dual Credit Opportunities Available. Career Opportunities: CNC Machinist; CNC Operator; Tool Maker; Quality Control Inspector; Mold Maker

## PRINCIPLES OF BIOMEDICAL SCIENCES (PLTW)

2 Semesters / 2 Credit per semester
Grade Level: 11, 12
Recommended Prerequisite: Completed Biology 1 with a C or higher
PLTW Principles of the Biomedical Sciences provides an introduction to this field through "hands-on" projects and problems. Student work involves the study of human medicine, research processes and an introduction to bioinformatics. Students investigate the human body systems and various health conditions including heart disease, diabetes, hypercholesterolemia, and infectious diseases. A theme through the course is to determine the factors that led to the death of a fictional person. After determining the factors responsible for the death, the students investigate lifestyle choices and medical treatments that might have prolonged the person's life. Key biological concepts included in the curriculum are: homeostasis, metabolism, inheritance of traits, feedback systems, and defense against disease. Engineering principles such as the design process, feedback loops, fluid dynamics, and the relationship of structure to function will be included where appropriate. The course is designed to provide an overview of all courses in the Biomedical Sciences program and to lay the scientific foundation necessary for student success in the subsequent courses. Principles of Biomedical Sciences is taught in conjunction with Human Body Systems.

## PROFESSIONAL CAREER INTERNSHIP

2 Semesters / 2-3 Credits per semester

## Grade Level: 12

Professional Career Internship is a College and Career Readiness course that is designed to provide opportunities for students to explore careers that require additional degrees or certifications following high school. The emphasis of the experience is on applying skills developed through instruction and on learning new career competencies at the internship site. The internship is tailored to the unique needs and interests of the student and is considered a high school capstone experience towards fulfillment of the student's meaningful future plan. Upon completion of the internship, students will review and revise their College and Career plans. A training agreement outlines the expectations of all parties: the intern, parent/guardian, site supervisor/mentor, internship supervisor, and the school. Students participating in these structured experiences will follow class, school, business/industry/ organization, State, and Federal guidelines. Internships may be paid or unpaid and must include a classroom component (such as a series of seminars, workshops, or class meetings) and regular contact between the interns and internship coordinator.
Students will need to have:

- Complete an application
- Earned all credits for graduation
- Passed ECA exams
- Excellent Attendance
- Clean discipline record
- Minimum GPA of 2.0 out of 4.0
- At least three outstanding recommendations from certified school personnel
- Reliable transportation and Valid Driver's License
- Requested an internship in a career field in accordance with his/her meaningful career plan
- Proof of health insurance

Grade level: 12
This course is designed as a comprehensive training program that prepares students to enter the trucking industry as an entry-level tractortrailer operator. Instruction will include both classroom activities and behind-the-wheel driving experiences. Additional emphasis will include preventive maintenance and basic control skills training. Students are required to submit to and pass a Department of Transportation, Distribution and Logistics physical exam and drug screen. In addition, students must reach their 18th birthday prior to graduation from high school in order to enroll in and complete this course. Upon successful completion, students will be qualified to operate Class A Commercial Vehicles on Indiana highways. Course is taught through Vincennes University
Course Requirements:

- Valid Driver's Licenses for at least 1 year
- Ability to obtain a Class "A" CDL learners permit
- CDL learners permit (obtained prior to operation on public streets)
- Must be 18 by April 1
- Must provide own transportation to Aviation Technology Center and Driving Range


## VETERINARY CAREERS I

2 Semesters / 4 credits per semester
Grade level: 11, 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. Dual Credit Opportunities Available

## VISUAL COMMNICATIONS: (FORMLY KNOWN AS GRAPHIC IMAGING)

Please Note: Students who sign up for Visual Commutations with take Graphic Design and Layout one year and Computer Illustration and Graphics the following year.

## GRAPHIC DESIGN AND LAYOUT <br> 2 Semesters / 4 Credits per semester

Grade level: 11, 12
Graphic Design and Layout includes organized learning experiences that incorporate a variety of visual art techniques as they relate to the design and execution of layouts and illustrations for advertising, displays, promotional materials, and instructional manuals. Instruction also covers advertising theory and preparation of copy, lettering, posters, and artwork in addition to incorporation of photographic images. Communication skills will be emphasized through the study of effective methods used to design commercial products that impart information and ideas. Advanced instruction might also include experiences in various printing processes as well as activities in designing product packaging and commercial displays or exhibits.

## COMPUTER ILLUSTRATION AND GRAPHICS

2 Semesters / 4 Credits per semester

## Grade level: 11, 12

Computer Illustration and Graphics introduces students to the computer's use in visual communication. The focus of the course is on basic computer terminology and use, mastering fundamental skills, and developing efficient working styles. These skills are then developed by creating work with imaging, drawing, interactive, and page layout software. The course includes organized learning experiences that incorporate a variety of visual art techniques as they relate to the design and execution of layouts and illustrations for advertising, displays, promotional materials, and instructional manuals. Instruction also covers advertising theory and preparation of copy, lettering, posters, produce vector illustrations, graphics and logos, and artwork in addition to incorporation of photographic images. Communication skills will be emphasized through the study of effective methods used to design products that impart information and ideas. Advanced instruction might also include experiences in silk screening and air brush techniques as well as activities in designing product packaging and commercial displays or exhibits. Dual Credit Opportunities Available. Career Opportunities: Graphic Designer; Digital Photography; Desktop Scanner Operator; Offset Press Operator; Screen Press Operator; Packaging Graphics Production; Graphic Sign Production; Audio/Video Editing
Certification: (GAERF PrintED) the program is accredited by Graphic Arts Education and Research Foundation (GAERF) PrintED, ensuring quality curriculum and instruction. Students may take an online examination at the completion of the program.

## WELDING TECHNOLOGY I

2 Semesters / 4 Credits per semester
Grade level: 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 who intend to make a career as a Welder, Technician, Sales, Designer, Researcher or Engineer. Emphasis is placed on safety at all times. OSHA standards and 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.

## WELDING TECHNOLOGY II

2 Semesters / 4 Credits per semester
Grade level: 11.12
Welding Technology II builds on the Gas Metal Arc welding, Flux Cored Arc Welding, Gas Tungsten Arc welding, Plasma Cutting and Carbon Arc skills covered in Welding Technology I. Emphasis is placed on safety at all times. OSHA standards and 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.


Grades 11-12


## Course

Adult Roles and Responsibilities<br>Advanced Child Development<br>Advanced Nutrition and Wellness 1-2<br>Advanced Life Science: Foods 1-2

Child Development
Introduction to Fashion and Textiles 1-2
Introduction to Housing and Interior Design 1-2
Interpersonal Relationships
Nutrition and Wellness 1-2
Preparing for College and Careers

## Grade Prerequisite

11-12
10-12
10-12
11-12
10-12
9-12
10-12
9-12
9-12
9-12

## None

Child Development

None

## None

None
None
None
None

Nutrition \& Wellness1-2
Nutrition \& Wellness1-2, Advanced Nutrition \& Wellness 1-2, Biology, Chemistry, Physics

## Adult Roles and Responsibilities

## Grades 11-12

This course is recommended for all students regardless of career cluster or pathway, in order to build skills needed for assuming the roles and responsibilities they will encounter as they prepare to complete high school and enter the adult world. Knowledge, skills, attitudes, and behaviors students will need as they prepare to take the next steps toward adulthood in today's ever-changing society are developed throughout this course. Topics include living independently and family formation; analysis of personal standards, needs, aptitudes and goals; integration of family, community and career responsibilities; consumer choices and decision making related to nutrition and wellness, clothing, housing, and transportation; financial responsibility and management of financial resources; and relationship of technology and environmental issues to family and consumer resources. This course provides the foundation for continuing and post-secondary education in all career areas related to individual and family life. This course is one course in a series of three Family and Consumer Sciences courses that can be taken to meet the Health and Safety/Wellness one-credit requirement and this course meets the state requirement for personal financial responsibility. (See note at end of FACS section.)

## Advanced Child Development

1 Semester / 1 Credit
Grades 10-12 (Offered Spring Semester ONLY)
Prerequisite - Child Development
Advanced Child Development is the second course in a series that strengthens the foundation established in Child Development, which is a prerequisite. This course is especially relevant for students interested in careers that require knowledge of the development and nurturing of children. Advanced Child Development addresses issues of the development of children age 4 through age 8. This course includes the study of professional and ethical issues in child development and best practices are explored for optimum child growth, development, health, and wellness. Foundational knowledge of child development theories and research will be expanded from the Child Development course in this advanced course. Support systems for parents and caregivers will also be addressed. This course provides the foundation for continuing and post-secondary education in all career areas related to children, child development, and nurturing of children.

## Advanced Life Science: Foods 1-2

2 Semesters / 2 Credits
Grades 11-12
Prerequisite - Nutrition and Wellness 1-2, Advanced Nutrition and Wellness 1-2, Biology, Chemistry (preferred), or Physics
This sequential course of two semesters, integrates biology, chemistry, and microbiology in the context of foods and the global food industry. Students enrolled in this course participate in laboratory experiences, and conduct food-based investigations and experiments. Students will understand how the science principles of biology, chemistry, and physics apply to the composition and nutrition of foods, and food and food product development including processing, safety, sanitation, packaging, and storage. Students completing this course will be able to apply the principles of scientific inquiry to solve problems related to biology, chemistry, and physics in the context of highly advanced industry applications of foods. Laboratory experiences are required in this course. These semester courses must be scheduled consecutively and these credits fulfill science credit requirements.

## Advanced Nutrition and Wellness 1-2

2 Semesters / 2 Credits

## Grades 10-12

Prerequisite - Nutrition and Wellness 1-2
Advanced Nutrition and Wellness is a two semester course that builds on the foundation established in Nutrition and Wellness, which is a prerequisite. The Advanced Nutrition and Wellness course addresses complex concepts in nutrition and foods, focusing on economic, social, cultural, and global issues of foods. Topics include an extensive study of major nutrients and nutritional standards across the life span; influences on nutrition/food choices; community and world food concerns; impacts of technology on nutrition; foods and related tools and equipment; and exploration of careers in the food industry. Laboratory experiences, which emphasize advanced food preparation techniques and applications, are a primary focus of this course. Students will complete a comparison of nutritional foods proven favorable for one's optimum health compared to monotonous diets based on processed foods. This course is recommended for all students with an interest in improving their nutritional status and learning how nutrients affect the body across the life span. Advanced Nutrition and Wellness is an especially appropriate course for students interested in careers in the medical field, fitness/athletic training, dietetics, and physical therapy. This course is the second in a sequence of courses that provide a foundation for continuing and post-secondary education in all career areas related to food, nutrition, and wellness. These semester courses must be scheduled consecutively.

Grades 10-12 (Offered Fall Semester ONLY)
Child Development is an introductory course that is especially relevant for students interested in careers that require knowledge of the development and nurturing of children. This course is the first of two sequential courses and is the prerequisite for Advanced Child Development. Child Development addresses the knowledge, skills, attitudes, and behaviors associated with promoting optimal growth and development of infants and children through age 3. Human sexuality and adolescent pregnancy are explored in relation to the affect recognized on a developing child. Prenatal development, preparation for birth, and the birth process are also explored. Meeting the physical, social, emotional, intellectual, moral and cultural growth and developmental needs of infants and children is a primary focus of the course. Child development theories, research and best practices will be introduced. The impacts of special conditions affecting children, heredity, environment, and family and societal crisis on the development of the child are also analyzed and evaluated. Meeting children's needs for food, clothing, shelter, and care giving; caring for children with special needs; parental resources, services, and agencies; and career awareness are additional topics of investigation. This course provides the foundation for continuing and post-secondary education in all career areas related to children, child development, and nurturing of children. Child Development is one course in a series of three Family and Consumer Sciences courses that can be taken to meet the Health and Safety/Wellness one-credit requirement. (See note at end of FACS section.)

## Interpersonal Relationships

1 Semester / 1 Credit
Grades 9-12
Interpersonal Relationships addresses the knowledge, skills, attitudes, and behaviors all students need to participate in positive, caring, and respectful relationships in the family and with individuals at school, in the community, and in the workplace. This is an introductory course that is especially relevant for students interested in careers that involve interacting with people. Topics include components of healthy relationships, roles and responsibilities in relationships (e.g. power, conflicting interests, peer pressure, life events); and establishing and maintaining relationships. Building self-esteem and self-image through healthy relationships is explored. A primary focus of the course is communication styles and techniques for effective communication and the impact of these elements on relationships. Ways of preventing and managing stress and conflict are analyzed and evaluated. Class discussion, group activities, individual assignments and projects are utilized throughout the course to better assist students in applying the principles of positive personal development and interpersonal growth to their individual lives. Other course topics include leadership, teamwork and collaboration; conflict prevention, resolution, and management; exploration of individual needs and characteristics and their impacts on relationships; addressing violence and abuse; and related family resources, services and agencies. This course provides the foundation for continuing and postsecondary education in all career areas that involve interacting with people both inside and outside of a business/organization, including team members, clients, patients, customers, and the general public. This course is one course in a series of three Family and Consumer Sciences courses that can be taken to meet the Health and Safety/Wellness one-credit requirement. (See note at end of FACS section.)

## Introduction to Fashion and Textiles 1-2

2 Semesters / 2 Credits
Grades 9-12
Introduction to Fashion and Textiles is a two-semester course with particular relevance for those students interested in academic enrichment or a career in the fashion, textile, and apparel industry. Introduction to Fashion and Textiles addresses basic knowledge and skills related to design, production, acquisition, and distribution in the fashion, textile, and apparel arena including the factors influencing the merchandising and selection of fashion, textile, and apparel goods and their properties, design, and production. Students will operate a sewing machine and experience basic construction and alteration techniques while practicing care and maintenance of textile products, equipment, and tools used in the industry. Students will also explore the impact of technology as it relates to fashion, textile, and apparel. Topics include the social, psychological, cultural and environmental aspects of clothing and textiles selection. The influences on clothing choices will be investigated and students will discover the messages often conveyed through one's appearance. Fashion cycles, fashion influences, and fashion trends are explored and clothing styles are analyzed and evaluated according to color schemes, design elements, design principles, and fashion components. Laboratory experiences including the construction of multiple projects are required. This course provides the foundation for continuing and post-secondary education in fashion, textile, and apparel-related careers. Students must schedule these semesters consecutively.

## Introduction to Housing and Interior Design 1-2

2 Semesters / 2 Credits
Grades 10-12
Introduction to Housing and Interior Design is an introductory course essential for those students interested in academic enrichment or a career within the housing, interior design, or furnishings industry. This course addresses the selection and planning of designed spaces to meet the needs, wants, values and lifestyles of individuals, families, clients, and communities. Housing decisions, resources and options will be explored including the factors affecting housing choices and the types of housing available. Developmental influences on housing and interior environments will also be considered. Historical architectural styling and basic furniture styles will be explored as well as identification of the elements and principles of design. Students develop skills in design and space planning including evaluating floor plans and reading construction documents while learning to create safe, functional, and aesthetic spaces. Skills creating pleasing interior environments using the color wheel and color harmonies will be promoted. Presentation techniques will be practiced to thoroughly communicate design ideas. Visual arts concepts will be addressed. Direct, concrete mathematics proficiencies will be applied. A projectbased approach will be utilized as housing and interior design content is integrated into the design of interior spaces while meeting specific project criteria. This course provides the foundation for continuing and post-secondary education and careers in the architecture, construction, housing, interior design, and home furnishings industries. These semester courses must be scheduled consecutively.

## Nutrition and Wellness 1-2

2 Semesters / 2 Credits
Grades 9-12
Students in Nutrition and Wellness explore the lifelong benefits of sound nutrition and wellness practices over a lifetime and are empowered to apply these principles in their everyday lives. This is a two semester introductory course valuable for all students as a life foundation and academic enrichment, but is especially relevant for students interested in careers related to food, nutrition and wellness.

Topics include: making healthy choices that promote optimum growth and development; physical, social, and psychological wellness; importance of physical activity and fitness; and selection and preparation of nutritious meals and snacks based on USDA Dietary Guidelines. Students also explore safety, sanitation, and storage issues associated with foods, nutrition, and wellness. Career exploration is included as it relates to nutrition, food preparation, and health and wellness. Basic laboratory experiences, which emphasize both nutrition and wellness practices and basic food science, are a primary focus and a required element in this course. These semester courses must be scheduled consecutively. Nutrition and Wellness is the first in a sequence of courses, followed by Advanced Nutrition and Wellness, that provides a foundation for continuing and post-secondary education in all career areas related to food, nutrition, and wellness. This course is one course in a series of three Family and Consumer Sciences courses that can be taken to meet the Health and Safety/Wellness one-credit requirement. (See note at end of FACS section.)

## Preparing for College and Careers

1 Semester / 1 Credit

## Grades 9-12

Preparing for College and Careers addresses the essential knowledge, skills, and behaviors all students need to be prepared for success in college, career, and life. The impact of today's choices on tomorrow's possibilities is the focus of this course. Topics to be addressed include exploration of personal aptitudes, interests, values, and goals; life and career exploration and planning; examining multiple life roles and responsibilities as individuals and family members; planning and building employability skills; transferring school skills to life and work; decision making and organizational skills; and managing personal resources. Developing a Ten-Year Academic/Career Plan (high school schedule and beyond) is a required component of the course. Preparing for College and Careers includes reviewing the 16 national career clusters and Indiana's College and Career Pathways. One or more pathways will be investigated in-depth as graduation plans are evaluated, career plans developed, and personal and career portfolios created. This course is one course in a series of three Family and Consumer Sciences courses that can be taken to meet the Health and Safety/Wellness one-credit requirement. (See note at end of FACS section.)

## 511 IAC 6-7-6 (4): Health and Safety Credit

The Health and Safety/Health and Wellness one-credit requirement is fulfilled for a student if the student's program includes three (3) credits from the following Family and Consumer Sciences courses: (A) Child Development (B) Personal Financial Responsibility (C) Interpersonal Relationships (D) Nutrition and Wellness (E) either Preparing for College and Careers or Adult Roles and Responsibilities.

## Language Arts Department



English 9 through 12 are required for graduation. English 9, 10, 11, 12 are full one-year courses which integrate the study of literature, composition, and grammar.

English PreAP and AP courses require students to complete a summer reading list. The reading lists are included in the course descriptions.

| Course | Grade | Prerequisites |
| :--- | :---: | :--- |
|  |  |  |
| English 9 | 9 | None |
| Pre-AP English 9 | 9 | suggested A or B in $8^{\text {th }}$ grade English |
| English 10 | 10 | English 9 |
| Pre-AP English 10 | 10 | English 9 or 9 Pre AP |
| English 11 | 11 | English 10 |
| English 11 AP or 10 Pre AP |  |  |
| English 12 | 11 | English 11 |
| English 12 AP | 12 | English 11 or 11 AP |
| English as a New Language | 12 | Test, Levels $1-3$ |
| Creative Writing | $9-12$ | None |
| Etymology | $10-12$ | None |
| Speech | $10-12$ | None |
| Advanced Speech | $9-12$ | Speech |
| Journalism | $10-12$ | None |
| Mass Media | $9-12$ | None |
| Student Publications (Newspaper) | $9-12$ | Journalism "C" average, English teacher recommendation |
| Student Publications (Yearbook) | $9-12$ | Selected |
| Library Media I and II | $10-12$ | Selected |
| Journalism/WRFT | $10-12$ | Mass Media, selected |
| Video Mass Media/ FCTV I and II | $11-12$ | Mass Media, selected |

Creative Writing (Elective)
1 Semester / 1 Credit
Grades 10-12
This creative writing course teaches the student how to kick-start the creative writing process, tap into one's imagination, draw from everyday experiences and memories, give structure to one's writing, and use character and dialogue. Students will work alone and with other students, will learn to focus their talent, skills, and energy, and will learn to critique their own work. Students will learn how to pen different types of creative writing such as Cartoon/Comic Strip Design, Fictional Story Writing (Fantasy, Science Fiction, Mystery, Romance, Westerns), Poetry, Nonfiction Memoirs, and Nature Journaling.

English 9
2 Semesters / 2 Credits
Grade 9
English 9 is a one-year course in the CORE 40 English curriculum which is required for all incoming freshmen seeking high school diplomas. The majority of students enrolled in this course plan to go on to a four-year college or university, a vocational/technical school, or the military. This course seeks to integrate the study of literature, composition, and grammar.

## Pre-AP English 9

2 Semesters / 2 Credits
Grade 9
English 9 Pre-Advanced Placement is a course designed to expand upon the college-bound English 9 curriculum. Students will study a more expansive variety of genres and authors with an emphasis on a more in-depth analysis of said authors. A major emphasis of this class is to improve student writing across the curriculum through the inclusion of a variety of writing styles. Audience and purpose will be addressed. Summer reading required for all students who will take this class: Of Mice and Men by John Steinbeck and Lord of the Flies by William Golding. These books are required to be read prior to school starting in August.

## English 10

2 Semesters / 2 Credits
Grade 10
Prerequisite - English 9
English 10 is a one-year course in the CORE 40 English curriculum which seeks to integrate the study of composition, grammar, speaking and listening skills, world literature, and young-adult literature.

## Pre-AP English 10

2 Semesters / 2 Credits
Grade 10
Prerequisite - Successful completion of English 9 or English 9 Pre AP.
These courses are designed to prepare students to work more efficiently toward a goal of gaining advanced skills in language usage. A summer reading list prior to the beginning of the fall semester will be required. The following is a list of required summer reading: 1984 by George Orwell, As You Like It by William Shakespeare, Nectar in a Sieve by Kamala Markandaya, Things Fall Apart by Chinua Achebe.

The summer reading is required to be completed before the first week of school. The course will present a challenging, college prep curriculum, and an excellent opportunity for students to gain a more accomplished understanding of the English language.

## English 11

2 Semesters / 2 Credits
Grade 11
Prerequisite - English 10
English 11 is a one-year course in the CORE 40 English curriculum which is designed for students who have experienced success in the English program at the sophomore level. The majority of students plan to attend some post-secondary school such as a four-year college, vocational/technical school, or the military. The course seeks to integrate the study of literature, composition, and grammar and requires a research project often in collaboration with other disciplines.

## English 11AP: Advanced Placement/Language and Composition

2 Semesters / 2 Credits
Grade 11
Prerequisite - Successful completion of English 10 or 10 Pre AP
English 11 Advanced Placement is for the superior English students who are required to take the college advanced placement examinations in May as a part of the course. Students who enroll in this course and who successfully complete the examinations in the spring may be eligible for college credit at their respective universities. The core of the class will focus on American literature and will involve intensive analysis of the readings as well as a multiplicity of writing assignments. The course will seek to integrate literature, composition, and grammar. A summer reading list prior to the beginning of the fall semester will be required. The following is a list of required summer reading: Walden by Henry David Thoreau, The Great Gatsby by F. Scott Fitzgerald, Night by Elie Wiesel, The Crucible by Arthur Miller, The Heart Is a Lonely Hunter by Carson McCullers. Additional books read during the year are: Black Boy, The Scarlet Letter, Catcher in the Rye, and Song of Solomon. Students signing up for this class are required to take the AP exam in May.

## English 12

2 Semesters / 2 Credits
Grade 12
Prerequisite - Successful completion of English 9 through 11
These senior-level courses are designed to further develop skills in oral and written communication. Preparation for Language Proficiency skills required for the college level is an underlying focus. Emphasis is placed upon narrative, expository, descriptive, and persuasive writing. The study of English literature is included.

## English 12AP: Literature and Composition

2 Semesters / 2 Credits
Grade 12
Prerequisite - Successful completion of English 11 or 11AP
This is a college-level course and students can, by successful completion of the Advanced Placement Exam administered in May, obtain up to one year of college credit in English. The course includes both the reading and analysis of discursive prose and the study of the process of writing from the discovery of the topic to the preliminary drafts to the final edited edition. Students will study examples of prose and poetry from various fields and periods primarily in English from Beowulf through the Moderns. Students taking this course are required to read the following during the summer before the start of school: King Lear, A Farewell to Arms, and Billy Budd. During the year students will read The Republic, The Inferno, Notes from the Underground, and Heart of Darkness. Students signing up for the class are required to take the AP exam in May.

## English as a New Language

1 credit per semester
Grades 9-12
Prerequisite - Placement by test.
English as a New Language provides non-English speaking students with instruction in English which would improve their proficiency in listening, speaking, reading, and writing in English. Emphasis is placed on helping students function within the regular school setting and within an English-speaking society.

Etymology (Elective)
1 Semester / 1 Credit
Grades 10-12
Etymology is an intensive study of Greek and Latin roots, prefixes, and suffixes which provide clues to meanings of hundreds of unknown and misunderstood English words. The course stresses working on derivatives, increasing vocabulary, clarifying misconceptions of the meanings of words, and learning foreign phrases adapted to the English language. This course is designed to help build skills for the college-bound student and may be used to improve SAT/ACT test scores. It is intended for students who have demonstrated a willingness to commit considerable time to studying and completing assignments both inside and outside of class. The course will also include vocabulary building and enrichment activities through the use of projects, a research paper, and in-class review exercises.

Speech (Elective)
1 Semester / 1 Credit
Grades 9-12
Prerequisite - None
Speech is a one-semester elective which is offered to students in grades $9-12$ who wish to gain experience in the art of public speaking. With no prerequisites, this is a course designed to give introductory information and beginning practice in various speech activities. Included is public speaking, listening skills, researching skills, evaluating speeches, and oral interpretation of literature.

Advanced Speech (Elective)
1 Semester / 1 Credit
Grades 10-12
Prerequisite - Speech
This course will include the principles of parliamentary procedure, formal discussion, debate, and a trial reenactment. The various types, terms, and techniques of each discipline will be experienced through regular classroom exercises.

Grade 9-12
Prerequisite - C grade in English
Journalism is a one semester class for students in grades 9-12. The prerequisite is a C average in English. Journalism is required for joining the Pilot Flashes staff. Journalism provides students with the opportunity to improve their writing skills in the specialized field of newspaper publishing. Students will create a portfolio of journalistic writing, including news, feature, sports, and editorial articles. Students will also analyze and discuss both professional and student media for ethical and design concerns. The writing process is emphasized, as students use self and peer editing and teacher conferencing to revise work. The course will also cover research and interviewing techniques, AP style, headline and lead writing, and other topics to prepare students for positions on the school newspaper.

## Library Media I and II

1 Credit per semester
Grades 10-12 (Selected by Media Center)
Library Media provides instruction and practice in using procedures based upon library science and information science theory. Emphasis is placed on the knowledge of specific organizational systems, standardized records, and database research. Creativity is encouraged for the use of book promotion.

## Mass Media

1 Semester / 1 Credit
Grades 9-12
This course provides a study of radio, television, film, newspapers, and videotape as sources of information, persuasion, and creative expression. Students create their own media productions. They become more aware of audience and purpose in the evaluation of mass media. They learn to judge media critically and understand the use of persuasive language strategies. Public speaking skills are emphasized and students receive an opportunity to prepare projects for use on WRFT, the school radio station. This course is required of any student who wishes to join the WRFT radio staff.

## Journalism/WRFT

1 Credit per semester
Grades 11-12
Prerequisite - Mass Media, selected
91.5 FM, is a radio station licensed to the Franklin Township Community School Corporation. Students on the radio staff are called upon to demonstrate many skills, including written composition, speaking, news gathering, sports broadcasting, interviewing, technical aptitude, and a wide range of personal qualities (self-motivation, cooperation with others, punctuality, ability to assume responsibility, etc.) Those who succeed will enjoy a great deal of personal satisfaction from the knowledge that the school and community have been served while at the same time many valuable communication skills have been developed. WRFT may be offered as a dual credit option through University of Southern Indiana. Please consult your counselor at the beginning of the school year if you are interested in this opportunity.

## Video Mass Media/ FCTV I and II

1 Semester / 1 Credit
Grade 12
Prerequisite - Mass Media, selected
This course is the study of television broadcasting. Students develop skills in pre-production planning, production techniques, postproduction editing and distribution of television programming. Students enrolled in this course produce original programming for FCTV daily announcements. Video II will require individual projects which will afford students the opportunity to further develop their skills, and to build a personal portfolio of video work as well as produce interviews and special features for Franklin Township Community Ties which airs on the cable educational channel throughout Marion County.

## Student Publications (Newspaper) (Elective)

## Grades 10-12

2 Semesters / 2 Credits
Prerequisite - Journalism, "C" average in English, teacher recommendation
Publications (Newspaper) is a course offered to students in grades $9-12$ who have successfully completed Journalism and who have a "C" average in English. The course is designed for serious students of journalism who desire the practical experience of planning and producing the school newspaper, the Pilot Flashes. Students must apply for this class and, based on past performance in journalism, are selected by the newspaper advisor only.

## Student Publications (Yearbook) (Elective)

Grades 10-12
2 Semesters / 2 Credits
Prerequisite - Selected
Publications (Yearbook) is an English elective designed for the serious student who desires the practical experience of producing the high school yearbook. Enrollment in this course is by permission of the yearbook sponsor only and is based on the student's past academic performance and the recommendation of other English teachers.

## AVID (Advancement Via Individual Determination)

1 credit per semester
Grades 9, 10, 11 and 12
Prerequisite - Student selection through an interview process.
Students in AVID receive two hours of instruction per week in college entry skills, two hours per week in tutor-led study groups, and one hour per week in motivational activities and academic survival skills. In AVID, students participate in activities that incorporate strategies focused on writing, inquiry, collaboration, and reading to support their academic growth. This program is designed for participation all four years of high school.

## Mathematics Department



The Math Department offers courses in an exact sequence. Students must be successful (earn a passing grade) in order to advance to the next course each semester. A student will be required to repeat the course in the following semester or summer school if a failing grade is earned. Student placement in second semester of the freshman year is based on performance in the first semester and teacher recommendation. Additional course work may be required based on student need as identified by the teacher.

## Course

Algebra I
Algebra Enrichment
Algebra II
Algebra II Pre AP
Geometry
Geometry Pre AP
Pre-Calculus/Trigonometry
Pre-Calculus/Trigonometry Pre AP
Calculus AB AP
Calculus BC AP
Statistics AP
Finite Mathematics

## Grade

9-12
9
9-12
9-10
9-12
9-11
10-12
10-12
11-12
12
11-12
12

## Prerequisites

None
Placement by $8^{\text {th }}$ grade scores
Algebra I
A or B in Algebra I or Pre AP Geometry suggested
Algebra II
A or B in Pre AP Algebra II suggested
2 years Algebra and 1 year Geometry
A or B in Pre AP Algebra II and Pre AP Geometry suggested
Pre-Calculus Pre AP or A/B in Pre-Calculus suggested
Calculus AB AP
Algebra II and Geometry
Algebra II and Geometry

## Algebra I

Grades 9-12
2 Semesters / 2 Credits
Prerequisite - None
The focus of this course is the fundamental concepts of algebra. The course will begin with a review of the order of operations. First semester topics include solving equations and inequalities, solving word problems, and writing equations and graphing linear functions. Second semester topics include operations with polynomials, including factoring, systems of equations, operations with radical expressions, and quadratic functions.

## Algebra Enrichment <br> Grade 9

2 Semesters / 2 Credits
This course is taught in conjunction with the Algebra I course. It is an elective credit, not a math credit. The teacher will reinforce skills taught in the Algebra I course. Students are placed in this course based on standardized test scores and $8^{\text {th }}$ grade math performance.

## Algebra II

2 Semesters / 2 Credits
Grades 9-12
Prerequisite - Algebra I
Taking Algebra II and Geometry concurrently should only be done by those with an A/B average in Algebra I. It is strongly recommended that a student earn at least a C-in Algebra I before moving on to the next class.
This course continues the study of Algebra. New topics are linear programming, the absolute value function, greatest integer function, logarithms, higher degree equations, systems of quadratic equations, and conic sections.

## Algebra II Pre AP

2 Semesters / 2 Credits
Grades 9-10
Prerequisite - A or B in Algebra I or Pre AP Geometry is suggested.

## Geometry

Grades 10-12
2 Semesters / 2 Credits
Prerequisite - Algebra II
This course acquaints the student with lines, planes, triangles, circles, squares, rectangles, parallelograms, trapezoids, rhombi, and other polygons. Two column proofs are studied. The computation of areas and volumes is also covered along with a basic introduction to trigonometry.

## Geometry Pre AP

2 Semesters / 2 Credits
Grades 9-11
Prerequisite - A or B in Pre AP Algebra II is suggested.

## Pre-Calculus/Trigonometry

2 Semesters / 2 Credits
Grades 10-12
Prerequisite - Algebra I, Algebra II, and Geometry
First semester is the study of trigonometry. Trigonometry is the study of triangles. Topics discussed are solving right triangles and their word problems, graphs of the six trig functions and their inverses, solving oblique triangles, the trig identities, solving trig equations and the unit circle. Second semester reviews the conic sections and introduces the graphing of rational, exponential, logarithmic, and parametric functions, graphing of polar equations, and problems with series and sequences.

Prerequisite - "C" or better in Algebra II Pre AP or "A" in Algebra II is suggested
This course should be taken by any student planning to take the Calculus Advanced Placement exam.

## Calculus AB Advanced Placement

2 Semesters / 2 Credits
Grades 11-12
Prerequisite - "C" or better in Pre-Calculus Pre AP or "A" in Pre-Calculus is suggested. This course will prepare students for the College Board's Advanced Placement exam for Calculus AB. Students signing up for this class are required to take the AP exam in May.

## Calculus BC Advanced Placement

2 Semesters / 2 Credits
Grade 12
Prerequisite- Calculus AB. This course will include the topics of calculus along with the study of polynomial approximations and series, series of constants and Taylor series. Students will be prepared for the College Board's Advanced Placement exam for BC calculus. Students signing up for this class are required to take the AP exam in May.

## Statistics Advanced Placement

2 Semesters / 2 Credits
Graded 11-12
Prerequisite - Algebra II and Geometry
This is a two semester course which develops appreciation for, and skill in, applying statistical techniques in the decision-making process. Topics that will be included are: methods of data collection, organization of data, and graphical techniques for exhibiting data together with measures of central tendency and variation. Basic laws of probability, sampling theory, hypothesis testing, and making inferences from samples will be included. The second semester will focus on preparing students to take the AP exam. Students signing up for this class are required to take the AP exam in May.

Finite Mathematics
2 Semesters / 2 Credits
Graded 12
Prerequisite - Algebra II and Geometry
This course will deal with counting techniques, matrices, recursion, graph theory, social choice, linear programming and game theory. This course is recommended for students who are considering a college major in the liberal arts (psychology, law, arts, education, etc.).

| Course | Grade |
| :---: | :---: |
| Orchestra |  |
| Beginning Orchestra-Concert | 9-12 |
| Intermediate Orchestra-Symphony Band | 9-12 |
| Instrumental Ensemble-Percussion Symphony | 9-12 |
| Beginning Concert Band-Concert Band | 9-12 |
| Intermediate Concert Band-Symphonic Band | 9-12 |
| Advanced Concert Band-Wind Ensemble | 9-12 |
| Jazz Ensemble | 9-12 |
| Choral Music |  |
| Beginning Chorus-Men-Encores | 9-12 |
| Beginning Chorus-Women-Harmonia \& Concordia | 9-12 |
| Intermediate Chorus-Accents | 9-12 |
| Intermediate Chorus-Varsity | 9-12 |
| Intermediate Chorus-Vocal Majority | 9-12 |
| Advanced Chorus-FC Singers | 9-12 |
| Advanced Chorus-High Voltage | 9-12 |
| Choral Chamber Ensemble | 10-12 |
| Music History and Theory |  |
| Music History \& Appreciation | 9-12 |
| AP Music Theory \& Composition | 10-12 |
| Theatre Arts |  |
| Theatre Arts I | 10-12 |
| Advanced Theatre Arts II | 10-12 |
| Musical Theatre | 11-12 |
| Theatre Production I | 11-12 |
| Technical Theatre I | 11-12 |
| Advanced Technical Theatre | 11-12 |
| Theatre Arts Special Topics | 11-12 |
| Theatre Arts History | 11-12 |
| Advanced Acting | 11-12 |
| Visual Arts |  |
| AP Art Courses |  |
| Art History AP | 10-12 |
| AP Studio-2D Design | 11-12 |
| AP Studio-3D Design | 11-12 |
| AP Studio- Drawing | 11-12 |
| Two-Dimensional Art Courses |  |
| Intro to 2-D Art | 9-12 |
| Drawing 1 | 10-12 |
| Drawing 2 | 11-12 |
| Drawing 3 | 12 |
| Painting 1 | 10-12 |
| Painting 2 | 11-12 |
| Painting 3 | 12 |
| Three-Dimensional Art Courses |  |
| Intro to 3-D Art | 9-12 |
| Ceramics 1 | 10-12 |
| Ceramics 2 | 11-12 |
| Ceramics 3 | 12 |
| Sculpture 1 | 10-12 |
| Sculpture 2 | 11-12 |
| Sculpture 3 | 12 |

Orchestra
Beginning Orchestra-Concert
Band
Instrumental Ensemble-Percussion Symphony
9-12
9-12
9-12
9-12

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10-12
10-12
Advanced Theatre Arts II 10-12
$-\quad 11-12$
Technical Theatre I 11.12
Advanced Technical Theatre 11-12
Theatre Arts Special Topics 11-12
Theatre Arts History 11-12
Advanced Acting $\quad 11-12$

10-12
AP Studio- 2D Design 11-12
AP Studio- 3D Design 11-12

Intro to 2-D Art 9-12
Drawing 1 10-12
Drawing 2 11-12
Drawing 3
12
Painting $2 \quad$ 11-12
Painting 3


Ceramics 1 10-12
Ceramics 2 11-12
Ceramics 3 12
Sculpture 1 10-12
Sculpture 3

## Beginning Orchestra-Concert

Grades 9-12
Prerequisite: Previous Orchestra Experience
This orchestra will be rooted in the fundamentals and technique of performing in a music ensemble. Students will also begin to developmental skills and artistry in musical expression. Membership is primarily comprised of freshmen and some sophomores recommended by the orchestra director. In addition to developing technique, this course will focus on group II and III repertoire as defined by the ISSMA. Fundamentals of music theory will complement the performance material. FC Concert Orchestra students will be strongly urged but not required to participate in the ISSMA Solo and Ensemble contest.

Prerequisite: Previous Orchestra Experience
This orchestra is the highest performing ensemble of the orchestra program. Membership in this group is comprised of students recommended by the orchestra director. The musician students of the FC Symphony Orchestra will study and perform top-level repertoire for string orchestra, including music from all music history time periods. This orchestra will also collaborate with other orchestras at FCHS and top wind, brass, and percussion students from the band program, allowing students to perform full symphony orchestra repertoire. This performance driven course is rooted in the development of musical expression. Many curriculum enrichments such as TED talks, recordings and videos of great musical performances, texts, and literature highlighting performance practice are used to engage advanced students. Symphony Orchestra students will be strongly urged to study privately with professional musicians in the Indianapolis area. In order to develop the entire orchestra program, students will be required to act as mentor/teachers for sixth grade beginning orchestra students. Participation in ISSMA Solo and Ensemble contest is required.

## Band

The band department is co-curricular, offering ensemble classes during the school day as well as extracurricular ensembles. All band students are currently placed in a concert band class in chair order based on audition. All students are expected to maintain their own instrument in good working order. All students are responsible for band fees determined by the booster organization. These fees are based on their level of participation within the band program. All students in jazz band must be enrolled in one of the concert band classes. There are only a few exceptions to this, such as students who play guitar, bass guitar, or piano exclusively. Attendance at all scheduled practices and performances is mandatory.

## Instrumental Ensemble-Percussion Symphony

2 Semesters / 2 Credits
Grades 9-12

## Prerequisite - Pervious Band Experience

This is a performing ensemble and is part of the Franklin Central High School Band Program. This band class is for percussion students only. Percussion students will also perform with one of the three concert bands listed below. Students' after school commitments include several band concerts, contests, and rehearsals leading up to these performances. All students must maintain their own instrument in good working order. Students moving from middle school band to high school band should consider replacing their beginner instrument with a step-up instrument. Attendance at all practices and performances is mandatory. Students can expect to learn the fundamentals of music and develop good ensemble playing technique.

## Beginning Concert Band-Concert Band

2 Semesters / 2 Credits
Grades 9-12
Prerequisite - Audition
This is a performing ensemble and is part of the Franklin Central High School Band Program. Students' after school commitments include several band concerts, contests, and rehearsals leading up to these performances. All students must maintain their own instrument in good working order. Students moving from middle school band to high school band should consider replacing their beginner instrument with a step-up instrument. Attendance at all practices and performances is mandatory. Students can expect to learn the fundamentals of music and develop good ensemble playing technique.

## Intermediate Concert Band-Symphonic Band

2 Semesters / 2 Credits
Grades 9-12
Prerequisite - Audition
This is a performing ensemble and is part of the Franklin Central High School Band Program. Students' after school commitments include several band concerts, contests, and rehearsals leading up to these performances. All students must maintain their own instrument in good working order. Students moving from middle school band to high school band should consider replacing their beginner instrument with a step-up instrument. Attendance at all practices and performances is mandatory. Students can expect to learn the fundamentals of music and develop good ensemble playing technique.

## Advanced Concert Band-Wind Ensemble

2 Semesters / 2 Credits
Grades 9-12
Prerequisite - Audition
This is a performing ensemble and is part of the Franklin Central High School Band Program. This is the top performing ensemble in the band program. Students' after school commitments include several band concerts, contests, and rehearsals leading up to these performances. All students must maintain their own instrument in good working order. Students moving from middle school band to high school band should consider replacing their beginner instrument with a step-up instrument. Attendance at all practices and performances is mandatory. Students can expect to learn the fundamentals of music and develop good ensemble playing technique.

## Jazz Ensemble

2 Semesters / 2 Credits
Grades 9-12
Prerequisite - Previous Band Experience, Audition
This is part of the Franklin Central High School Band Program. As part of that program, students are also enrolled in beginning, intermediate or advanced concert bands or percussion class. After school commitments for jazz band include a monthly performance and possible attendance at a festival or contest. All students must maintain their own instrument in good working order. Attendance at all practices and performances is mandatory. Students can expect to learn the fundamentals of jazz music and develop good ensemble playing technique. Students will play a variety jazz styles including rock, Latin and swing charts.

## Beginning Chorus-Men-Encores

2 Semesters / 2 Credits

## Grades 9-12

Prerequisite - None, no audition necessary
Encores is an entry level vocal course for males designed to improve vocal technique and music literacy. This course will require students to rent concert attire and pay transportation fees. Students will sing music in three or more parts from various styles and cultures. Attendance at school performances, ISSMA contest, and rehearsals is mandatory.

## Beginning Chorus-Women-Harmonia \& Concordia

2 Semesters / 2 Credits
Grades 9-12
Prerequisite - None, no audition necessary
Harmonia \& Concordia is an entry level vocal course for females designed to improve vocal technique and music literacy. This course will require students to rent concert attire and pay transportation fees. Students will sing music in three or more parts from various styles and cultures. Attendance at school performances, ISSMA contest, and rehearsals is mandatory.

## Intermediate Chorus - Accents

Grades 9-12
2 Semesters / 2 Credits
Prerequisite - Audition
Accents is an intermediate level concert and non-competitive show choir course for females designed to improve vocal technique and music literacy. Placement in this ensemble is based upon a vocal and choreography audition. This course is co-curricular and functions as both a concert and extra-curricular non-competitive show choir. Students will have some after school rehearsals and will attend additional performances beyond the regular concert schedule. This course will require students to rent concert and show choir costumes and pay participation and transportation fees. Students will sing music in three or more parts from various styles and cultures. Attendance at school performances, show choir contests and performances, ISSMA contests, and rehearsals is mandatory.

## Intermediate Chorus-Varsity

2 Semesters / 2 Credits
Grades 10-12
Prerequisite - Audition
Varsity Choir is an intermediate level vocal course for females designed to improve vocal technique and music literacy. Placement in this ensemble is based upon a vocal audition. This course will require students to rent concert attire and pay transportation fees. Students will sing music in three or more parts from various styles and cultures. Attendance at school performances, ISSMA contest, and rehearsals is mandatory.

## Intermediate Chorus-Vocal Majority <br> 2 Semesters / 2 Credits

Grades 10-12
Prerequisite - Audition
Vocal Majority is an intermediate chorus of male singers who perform a wide range of vocal music from 1950's doo-wop to modern pop and classical. Placement in this ensemble is based upon a vocal audition. This course will require students to rent concert attire and pay transportation fees. Students will sing music in four or more parts from various styles and cultures. Attendance at school performances, ISSMA contest, and rehearsals is mandatory.

## Advanced Chorus - FC Singers

2 Semesters / 2 Credits
Grades 9-12
Prerequisite - Audition
FC Singers is a select group of male and female singers who perform a wide range of vocal styles from classical concert literature to popular and show choir music. Placement in this ensemble is based upon a vocal and choreography audition. This course is co-curricular and functions as both a concert and extra-curricular competitive show choir. This group typically rehearses Tuesdays and Thursdays after school for three hours, and attends day-long competitions on most Saturdays from January through March. This course will require students to rent concert attire and show choir costumes as well as pay participation and transportation fees. Students will sing music in four or more parts from various styles and cultures. Attendance at school performances, ISSMA contests, and show choir performances and rehearsals is mandatory.

## Advanced Chorus-High Voltage <br> 2 Semesters / 2 Credits

Grades 9-12
Prerequisite - Previous choral experience necessary; Audition
High Voltage is a select group of female singers who work on a wide range of vocal styles from classical concert literature to popular and show choir music. Placement in this ensemble is based upon a vocal and choreography audition. This course is co-curricular and functions as both a concert and extra-curricular competitive show choir. This group typically rehearses Tuesdays and Thursdays after school for three hours, and attends day-long competitions on most Saturdays January through March. This course will require students to rent concert attire and show choir costumes as well as pay participation and transportation fees. Students will sing music in three or more parts from various styles and cultures. Attendance at school performances, ISSMA contests, and show choir performances and rehearsals is mandatory.

## Choral Chamber Ensemble

2 Semesters / 2 Credits
Grades 10-12
Prerequisite - Intermediate or Advanced Chorus and Audition
Chamber Choir is a select group of male and female singers who work on a wide range of vocal styles from Renaissance madrigals and motets to modern pop and vocal jazz. Placement in this ensemble is based upon a vocal audition. Second semester, this ensemble
performs and competes as an advanced Concert Choir and Vocal Jazz Ensemble. This course will require students to rent concert attire and pay transportation fees. Additional expenses for travel to out of state competitions may be required. Students will sing music in four or more parts from various styles and cultures. Attendance at school performances and rehearsals is mandatory.

## Music History and Appreciation

## Music History and Theory

## Grades 9-12

Prerequisite - None
Music History and Appreciation is a study of music from prehistoric times through the twenty-first century. The course will focus on musical periods of history and the composers and music therein. Students should come prepared for a history course requiring reading and studying. Previous musical experience is helpful, but is not required. Students can expect the following academic standards to be addressed: singing alone and with others, reading and notating music, evaluating and describing music, understanding the relationship between music and the other arts, and understanding music in relation to history and culture. Written assignments and presentations in front of the class are required. Through the study of music history, students will gain an appreciation of varied styles and genres of music, and develop an educated musical ear.

## AP Music Theory and Composition

2 Semesters / 2 Credits

## Grades 10-12

Prerequisite - Teacher approval (Advanced music class)
Music Theory is a study of the rudiments of music through the ages. This year long course consists of writing, performing, and composing music. Recorded music is listened to and analyzed. The student will learn to understand how music is constructed and what elements are used to interpret style and creativity.
Theatre Arts

## Theatre Arts I

2 Semesters / 2 Credits
Grades 10-12
Prerequisite - None
Theatre Arts is a year-long survey class in which students will develop acting skills, create scripts, and conceive scenic designs. Students will explore the creative process through developing monologues and scenes and creating design elements. Students will read and analyze plays and identify characteristics, ideas and themes in theatre. Students will attend and critique theatrical productions.

## Advanced Theatre Arts II

2 Semesters / 2 Credits
Grades 10-12
Prerequisite - Theatre Arts I
Advanced Theatre Arts II is a year-long class in which students will build characters through observation, improvisation and script analysis. Students will formulate concepts for conveying character through physical and vocal choices. Students also attend and critique theatrical productions. Students will employ a careful process of play analysis. Students will also compare related characteristics, ideas, issues or themes in theatre to create works that integrate concepts from other art forms.

## Musical Theatre <br> 1 Semester / 1 Credit

Grades 11-12
Prerequisite - Theatre Arts I
Musical Theatre is a one-semester, production based course in which students study musical theatre and its place in today's society. Students will participate in staging, choreographing, rehearsing, and performing an original or existing musical work. Students will analyze the elements and structure of musical theatre and develop and apply criteria to make informed judgments about the art form. Students will attend and critique theatrical productions. A music background is not necessary for this course.

## Theatre Production I

2 Semesters / 2 Credits
Grades 11-12
Prerequisite - Advanced Theater Arts II
Theatre Production is a year-long class in which students will take on responsibilities associated with rehearsing and presenting a fully mounted theatre production. They will read and analyze plays in preparation for productions. Students will conceive a design for a production including set, lighting, sound, costumes, make-up, house management, and advertising. Students will investigate a theatre arts career and attend and critique theatrical productions. Students will rehearse and perform roles in a production, direct or serve as assistant director for a production and focus on the responsibilities associated with presenting a full scale theatre production. Students will employ a careful process of script analysis to create a character, and fully engage in the collaborative process of making theatre.

## Technical Theatre I

2 Semesters / 2 Credits
Grades 11-12 (Selected)
Technical Theatre I is a class that will actively engage students in the process of designing, building, managing, and implementing the aspects of a production. Students will explore stage technology and make informed judgments about technical production choices. Students will develop scenic designs, lighting, costuming, make-up, sound, and stage and house management. Students will understand the ways technical theater incorporates all the arts and other disciplines through construction, business, project management, design, and advertising. Students explore career opportunities in the theatre and attend and critique theatrical productions.

## Advanced Technical Theatre

Grades 12 (Selected)
Advanced Technical Theatre will actively lead students in the process of design, building, managing, programming, drafting, and implementing the technical aspects of a production. Students will create original designs and plans for scenic design, lighting, costuming, make-up, sound, and stage and house management. Further, students will assess stage technology and its impact on the theatre and their designs and implementation of technical elements of the production. Students will investigate careers in technical theatre and attend and critique theatrical productions.

## Theatre Arts Special Topic <br> 1 Semester / 1 Credit

Grade - 11-12
Prerequisite - Theatre Arts I
Theatre Arts Special Topic is a one-semester course that concentrates on a specific broad area of theatre, for example Shakespeare and his impact on theatre arts or children's theatre. Students will discover dramatic themes in various cultures and time periods connected to the specific area of study. Additionally, students will participate in creative activities related to the area of concentration. Students will attend and critique theatrical productions.

Theatre Arts History
1 Semester / 1 Credit
Grades 11-12
Prerequisite - Theatre Arts I
Theatre Arts History is a one-semester course in which students will read and discuss significant plays from various time periods and explore the interrelationship between theatre and history. Students will examine the value of theatre, recognize significant works of the theatre, and comprehend various performance styles. Students will explore career opportunities in the theatre, and attend and critique theatrical productions.

## Advanced Acting I

## Grades 11-12

2 Semesters / 2 Credits
Prerequisite - Theatre Arts I
Advanced Acting is a class in which students will create, research and perform characters through script analysis, observation, collaboration, and rehearsal. Students will explore the ways actors have contributed to the evolution of the theatre through cultures and time periods. Additionally, students will develop the body as the actor's primary instrument, and build characters as they portray situations through collaboration and improvisation. Students also attend and critique theatrical productions.

## Visual Arts

All visual art courses are two semesters.



## AP Art Courses

## Art History AP

Grades 10-12
Prerequisite - None
Students will build on the knowledge gained from the Art History course and use that knowledge to do in-depth research and presentations as well as further their knowledge of historical and contemporary art. Students will search for the meaning and significance of art through: the study of cultural and historical artworks, by analyzing common characteristics and interpretations of varied cultures, by using thoughtful means to decide if an artwork is aesthetically successful, and exploring a variety of media and techniques.

## AP Studio - Drawing, 2D Design or 3D Design

2 Semesters / 2 Credits

## Grades 11-12

Prerequisite- 2 years of Art and teacher recommendation
The AP Studio Art classes are designed for students who are seriously interested in art. AP Studio Art is not based on a written exam; instead, students submit portfolios of their artwork for evaluation at the end of the school year. The program consists of three portfolios to choose from-Drawing, 2D Design or 3D Design. This program provides the opportunity to earn college credit while in high school and is based on the premise that college level material can be successfully taught to secondary school students. This class comes with a lab fee to help offset the costs of art supplies.

## Intro to Two-Dimensional Art

## Two-Dimensional Art Courses

Grades 9-12
Prerequisite - None
This course is an introduction to the utilization of the elements and principles of design through various media on a flat surface. These media and techniques will be used to explore and to develop observation skills, visual problem-solving, craftsmanship, and an introduction to planning and executing individual ideas and concepts. This class requires a lab fee to help offset the costs of art supplies.

## Drawing 1

2 Semesters / 2 Credits

## Grades 10-12

Prerequisite - Intro to 2D Art
This course is a reinforcement and expansion of the Intro to 2-D Art course through drawing. Students will continue exploring a variety of drawing media (pencil, charcoal, ink, etc.) with a focus on refining drawing skills and techniques. Assignments will continue to focus on the utilization of elements and principles of design while furthering the development of observation skills, and visual problem solving. The planning and proposing of ideas and concepts for student driven work will be introduced second semester. Student will engage in individual and group critiques as assessment of their growth as an emerging artist. This class requires a lab fee to help offset the costs of art supplies.

## Drawing 2

2 Semesters / 2 Credits
Grades 11-12
Prerequisite - Drawing 1
Students will work from a combination of traditional subject matter, materials and techniques to develop individual concepts as well as personal style through the continued utilization of the elements and principles of design through drawing. Thorough planning, proposing and execution of ideas and/or concepts for work will be a standard expectation. Through continued individual and group discussions students also develop aesthetic values and the vocabulary to effectively critique various works of art. This class requires a lab fee to help offset the costs of art supplies.

## Drawing 3

2 Semesters / 2 Credits
Grades 12
Prerequisite - Drawing 2
Students continue to work from a combination of traditional subject matter, materials and techniques to develop individual concepts as well as personal style through the continued utilization of the elements and principles of design through drawing. Thorough planning, proposing and execution of ideas and/or concepts for work will be a standard expectation. Through continued individual and group discussions students also develop aesthetic values and the vocabulary to effectively critique various works of art. This class requires a lab fee to help offset the costs of art supplies.

Prerequisite - Intro to 2D Art
This course is a reinforcement and expansion of the Intro to $2 D$ Art course through painting. This course is a more intense exploration of the use of color as a tool to explore visual problem solving while experimenting with a wider range of painting media, surfaces and techniques. Assignments will continue to focus on the utilization of elements and principles of design. The planning and proposing of ideas and concepts for student driven work will be introduced second semester. Student will engage in individual and group critiques as assessment of their growth as an emerging artist. This class requires a lab fee to help offset the costs of art supplies.

## Painting 2

2 Semesters / 2 Credits
Grades 11-12
Prerequisite - Painting 1
Students work from a combination of traditional subject matter, materials and techniques to develop individual concepts as well as personal style through the continued utilization of the elements and principles of design through painting. Thorough planning, proposing and execution of ideas and/or concepts for work will be a standard expectation. Through continued individual and group discussions students also develop aesthetic values and the vocabulary to effectively critique various works of art. This class requires a lab fee to help offset the costs of art supplies.

## Painting 3

2 Semesters / 2 Credits
Grades 12
Prerequisite - Painting 2
Students continue to work from a combination of traditional subject matter, materials and techniques to develop individual concepts as well as personal style through the continued utilization of the elements and principles of design through painting. Thorough planning, proposing and execution of ideas and/or concepts for work will be a standard expectation. Through continued individual and group discussions students also develop aesthetic values and the vocabulary to effectively critique various works of art. This class requires a lab fee to help offset the costs of art supplies.

## Three-Dimensional Art Courses

## Intro to Three-Dimensional Art

2 Semesters / 2 Credits
Grades 9-12
Prerequisite - None
Students in this course will study a variety of thematic units and use a variety of 3D media including: clay, wire, and foam-core. Students will learn techniques like sculpting, carving, slab-building, and coil-building to develop their spatial skills. The students will reflect upon and revise their work, relate to other disciplines and explore historical and cultural background and connections. Students will engage in sequential learning experiences that encompass art history, art criticism, aesthetics, production and integrated studies. This class comes with a lab fee to help offset the costs of art supplies.

## Ceramics 1

2 Semesters / 2 Credits
Grades 10-12
Prerequisite - Intro to 3D Art
The students will be using a variety of beginning ceramics techniques including coil building, slab building and throwing to develop spatial skills, explore the elements and principles of 3-D Design and communicate their creative ideas. Students will begin to create portfolio level work. The students will reflect upon and revise their work, relate to other disciplines and explore historical and cultural background and connections. Students will engage in sequential learning experiences that encompass art history, art criticism, aesthetics, production and integrated studies. This class requires a lab fee to help offset the costs of art supplies.

## Ceramics 2

2 Semesters / 2 Credits
Grades 11-12
Prerequisite - Ceramics 1
Students in this course will continue to gain mastery of 3D design and ceramic techniques using coil, slab and throwing and surface design. The students will focus on refining their spatial skills, use of the elements and principles of design, communicate their creative ideas and develop their artistic voice. Students will continue to create portfolio quality work. The students will reflect upon and revise their work, relate to other disciplines and explore historical and cultural background and connections. Students will engage in sequential learning experiences that encompass art history, art criticism, aesthetics, production and integrated studies. This class requires a lab fee to help offset the costs of art supplies.

## Ceramics 3

2 Semesters / 2 Credits
Grades 12
Prerequisite - Ceramics 2
The students will strengthen their mastery of 3D design and ceramic techniques. The students primarily will use clay to refine their spatial skills, master the elements and principles of design, communicate their creative ideas and share their artistic voice. Students will continue to create portfolio quality work. The students will reflect upon and revise their work, relate to other disciplines and explore historical and cultural background and connections. Students will engage in sequential learning experiences that encompass art history, art criticism, aesthetics, production and integrated studies. This class requires a lab fee to help offset the costs of art supplies.

## Grades 10-12

Prerequisite - Intro to 3D Art
Students in this course will be learning to use a variety of 3-D media like clay, plaster, wood and stone to develop their spatial skills, explore the elements and principles of design, and communicate their creative ideas. Students will begin to create portfolio quality work. The students will reflect upon and revise their work, relate to other disciplines and explore historical and cultural background and connections. Students will engage in sequential learning experiences that encompass art history, art criticism, aesthetics, production and integrated studies. This class comes with a lab fee to help offset the costs of art supplies.

## Sculpture 2

2 Semesters / 2 Credits
Grades 11-12
Prerequisite - Sculpture 1
Students in this course will continue to gain mastery of the 3D design and techniques using a variety of 3D media and tools. The students will use media like clay, plaster, wood and stone to refine their spatial skills, explore the elements and principles of design, communicate their creative ideas and develop their artistic voice. Students will continue to create portfolio quality work. The students will reflect upon and revise their work, relate to other disciplines and explore historical and cultural background and connections. Students will engage in sequential learning experiences that encompass art history, art criticism, aesthetics, production and integrated studies. This class comes with a lab fee to help offset the costs of art supplies.

## Sculpture 3

2 Semesters / 2 Credits
Grades 12
Prerequisite - Sculpture 2
Students in this course will strengthen their mastery of the 3D design and techniques using a variety of media and tools. The students will use media like clay, plaster, wood and stone to refine their spatial skills, explore the elements and principles of design, communicate their creative ideas and share their artistic voice. Students will continue to create portfolio quality work. The students will reflect upon and revise their work, relate to other disciplines and explore historical and cultural background and connections. Students will engage in sequential learning experiences that encompass art history, art criticism, aesthetics, production and integrated studies. This class comes with a lab fee to help offset the costs of art supplies.

## ** Higher levels of 2D and 3D Art are available upon the recommendation of the instructor and the department chairperson.**

## Physical Education Department

| Course | Grade |
| :--- | ---: |
| Physical Education I-II | 9 |
| Health and Wellness 1 | 10 |
| Elective PE (Conditioning) | $10-12$ |
| Elective PE (Lifeguarding) | $10-12$ |
| Elective PE (Team Sports) | $10-12$ |
| Elective PE (Weight Training) | $10-12$ |
| Cadet Teaching/Advanced Lifeguarding | $10-12$ |
| Cadet Teaching: PE Assistant | $10-12$ |

Prerequisite<br>None<br>None<br>Physical Education I-II (C- or better)<br>Physical Education I-II (C- or better) and<br>Swimming Instructor Recommendation<br>Physical Education I-II (C- or better)<br>Physical Education I-II (C- or better)<br>Selected<br>Selected

2 Semesters / 2 Credits
Physical Education I-II (Required)
Grades 9-12
Prerequisite - None
Physical education offers opportunities for the development of leadership, citizenship, sportsmanship and the opportunity to learn to work, and to play together. It is more than aimless, frivolous play. Physical Education I-II covers a wide range of team sports, aerobics, health related fitness activities, recreational activities, outdoor pursuits, individual and dual sports and aquatics. In class, skills and rules are taught that may be used in leisure time activities. Uniforms are required of both boys and girls in P.E. These uniforms must be worn each day of class. These may be purchased from the bookstore at a cost of $\$ 18.00$. All students must complete the Physical Education requirement. Swimming is a required phase of Physical Education I-II and must be completed in order to receive credit for this course. Students must provide their own swimsuits and towels for the swimming portion of class. Girls must wear one-piece swimsuits. Adaptive PE is offered as determined by case conference committee if determined least restrictive environment. At least one of the two required semesters must be taken during the regular school year.

Health (Required)
1 Semester / 1 Credit
Grade 10
Prerequisite - None
Course emphasis is upon developing a wellness lifestyle in which students learn to appreciate and take responsibility for their own health and that of their future family. Students are provided an opportunity to develop decision-making skills and to learn to recognize both short
and long term health consequences of their behaviors. They are given opportunities to practice their communication skills with their classmates and families and to develop skill in working with others in group project work. This course includes but is not limited to units in the following: nutrition, emotional health, stress reduction, substance abuse, growth and development, human sexuality, lifestyle caused diseases, and communicable diseases.

## Elective Physical Education (Conditioning) 1 Credit per semester

Grades 10-12
Prerequisite - C- or better in previous PE class
This course consists of calisthenics, weight training, resistance training, flexibility, agility, and endurance training. Students are recommended for this course by the physical education staff as it is a very rigorous curriculum that will challenge even the best athlete.

## Elective Physical Education (Lifeguarding)

1 Semester / 1 Credit
Grades 10-12
Prerequisite - C- or better in previous PE class and recommendation by a swimming instructor.
This one-semester course offers opportunities to learn lifeguard techniques, first aid training and CPR. Students who pass all parts of the class will be certified by the American Red Cross with $80 \%$ or better scores. Students will be required to participate in daily activity in addition to completing written work and tests and performing on skills tests.

## Elective Physical Education (Team Sports)

1 Semester / 1 Credit
Grades 10-12
Prerequisite-C- or better in previous PE class
This one-semester course offers opportunities to participate in team sports such as basketball, soccer, volleyball, badminton, tennis, pickle ball, Ping-Pong, shuffleboard, and flag football. Students will be exposed to strategies for playing each sport as well. It also offers opportunities to learn lifetime activities and to develop citizenship, leadership, and social skills. A student can take this course only one time during the high school career.

## Elective Physical Education (Weight Training)

1 Credit per semester
Grades 10-12
Prerequisite - C- or better in previous PE class
This one-semester course is designed for the non-athlete who is interested in weight lifting. Students will follow a set program each day working to improve strength and muscular endurance. Students will also learn how to design their own weight lifting program. It also offers opportunities to develop citizenship, leadership, and social skills.

## Cadet Teaching: Advanced Lifeguarding <br> 1 Credit per semester

## Grade 10-12

Prerequisite - Lifeguarding plus lifeguard certification/swim instructor recommendation
The student will utilize those skills learned in Lifeguarding as an actual lifeguard in FC's pool during swim classes. The student will also work with the instructor when in the classroom assisting with CPR/ First Aid Training.

## Cadet Teaching: PE Assistant

1 Credit per semester

## Grades 10-12

Prerequisite - B average or better/successful completion of PE 1-2/PE instructor recommendation
The student will aid the teacher in day-to-day activities in the classroom. These activities include: equipment set up and take down, leading exercises, officiating, and aiding students one-on-one when necessary.


## Science Department

| Course | Grade | Prerequisite |
| :--- | ---: | :--- |
| Biology I | 9 | None |
| Biology I - Pre AP | 9 | A or B average in $8^{\text {th }}$ grade science |
| Anatomy \& Physiology | $11-12$ | Biology I \& Chemistry or ICP |
| Chemistry I | $10-12$ | strong algebra skills (A or B in Algebra courses) |
| Earth \& Space Science I | $10-12$ | None |
| AP Biology | 12 | Biology I \& Chemistry |
| AP Chemistry | $11-12$ | Chemistry I earn "C" or better and Algebra II |
| AP Environmental Science | $11-12$ | 2 years of science |
| Integrated Chemistry-Physics | $10-12$ | Algebra I |
| Physics I | $11-12$ | Biology |
| Physics AP | 12 | Biology and Physics |

Students are encouraged to enroll in biology, chemistry and physics as a basis for their science success in post-secondary education and in all careers. Additional AP courses are encouraged as well as electives that may suit a particular area of interest.

## Biology I

2 Semesters / 2 Credits
Grade 9
Prerequisite - None
Biology is an introductory course designed to study living organisms and their physical environment. Students should apply scientific methods of inquiry and research in examining the following areas: biochemistry, cell structure, function and reproduction, cell energy, molecular basis of genetics, natural selection and diversity, and ecology. This course and the Subject Area Test are required for graduation.

## Biology I - Pre AP

2 Semesters / 2 Credits
Grade 9
Prerequisite - A or B average in $8^{\text {th }}$ grade science
Honors Biology is designed for students who have excellent reading, comprehension, and study skills. The pace in the course is rapid, and critical thinking is stressed. Biology is a laboratory/project-based course designed to study living organisms and their physical environment. Students should apply scientific methods of inquiry and research in examining the following topics: biochemistry, cell structure and function, cell energy, molecular basis of genetics, natural selection and diversity, and ecology. This course and the Subject Area Test are required for graduation.

## Anatomy \& Physiology

2 Semesters / 2 Credits
Grades 11-12
Prerequisite - Biology \& Chemistry or ICP - Please consult with your current science teacher for best science course placement Students will investigate and apply concepts associated with human anatomy and physiology. Concepts covered include the process of homeostasis and the essentials of human function at the level of genes, cells, tissues, and organ systems. Student will understand the structure, organization, and function of the various components of the healthy human body in order to apply this knowledge in all healthrelated fields. Animal dissection is included as part of the laboratory component of the course.

## Biology Advanced Placement

2 Semesters / 2 Credits

## Grades 12

Prerequisite - Biology and Chemistry - Please consult with your current science teacher for best science course placement
This is a rigorous and fast paced course intended for students pursuing advanced credit in the life sciences. It is intended to prepare students for the College Board's Advanced Placement exam, as well as eight mandatory labs that will be completed during the course. Summer work may be assigned prior to the beginning of school in August. Students signing up for this class are required to take the AP exam in May.

## Environmental Science Advanced Placement

2 Semesters / 2 Credits
Grades 11-12
Prerequisite - Biology and Chemistry - Please consult with your current science teacher for best science course placement.
AP Environmental Science is a rigorous and fast paced course covering aspects of national and global environmental systems, including ecosystems, population dynamics, resource management, and environmental consequences of natural and anthropogenic processes. The course is a good fit for all students interested in science and highly recommended for students considering a career related to Earth or Environmental Science. Laboratory and field experiences are required components of the course. Computer, Internet, math, and reading skills are necessary. Students signing up for this class are required to take the AP exam in May.

## Chemistry I

Grades 10-12
Prerequisite- Biology (C or better) and strong algebra skills
Chemistry is designed primarily for the college bound student. The course deals with theory, description, and practice. Algebra I is required and more mathematics is strongly recommended.

## Earth \& Space Science I

2 Semesters / 2 Credits
Grades 10-12
Prerequisite - None
This course is designed to help students master a wide variety of Earth Science topics including astronomy, geology, meteorology, and oceanography. Available careers in these fields will be examined. Labs and hand-on activities will help students relate science to everyday life.

## Chemistry Advanced Placement

2 Semesters / 2 Credits

## Grades 11-12

Prerequisite - Biology and Chemistry - Please consult with your current science teacher for best science course placement.
This is an advanced placement course designed to prepare the student for the AP Chemistry exam. This course covers the equivalent of one full year of college level General Chemistry, comparable to a first year course at a college or university. The course is a rigorous mathbased course, with a strong laboratory component. It is intended for students who have demonstrated a willingness to commit considerable time to studying and completing assignments outside of class, and who have successfully completed a prior course in chemistry during high school. Review topics include all the material from chemistry-l as well as new topics such as kinetics, equilibrium, thermodynamics, electrochemistry, organic chemistry, and oxidation-reduction reactions. Students will be required to complete some summer review work prior to the start of the class in the fall. Students signing up for this class are required to take the AP exam in

## May.

## Integrated Chemistry - Physics

2 Semesters / 2 Credits
Grades 10-12

## Prerequisite - Algebra I

Integrated Chemistry/Physics introduces the fundamental concepts of scientific inquiry, the structure of matter, chemical reactions, forces, motion, and the interactions between energy and matter. This course is a laboratory-based introduction to possible future course work in chemistry or physics that will ensure a mastery of the basics of each discipline. Students who passed Chemistry or Physics are not eligible to take this course.

## Physics I

2 Semesters / 2 Credits
Grades 11-12
Prerequisite - Biology (Chemistry recommended) - Please consult with your current science teacher for best science course placement. Physics is the search for the fundamental laws that govern the behavior of objects in the universe. It's about the nature of basic things such as motion, forces, energy, matter, electricity, magnetism, and the composition of atoms. The emphasis will be on developing a conceptual understanding of these laws and phenomena. The course will give the students a deeper appreciation for the beauty of the natural world as revealed by modern science.

## Physics Advanced Placement

2 Semesters / 2 Credits
Grades 11-12
Prerequisite - Physics (Algebra II recommended) - Please consult with your current science teacher for best science course placement. This course will cover many of the same topics as Physics 1, but in greater mathematical detail. The emphasis will be placed on mathematical problem solving in preparation for the advanced placement test and for a university-level physics course. The course is intended mainly for students considering a career in science or engineering. Students signing up for this class are required to take the AP exam in May.

## Social Studies Department



## Course

Geography and History of the World
Geography and History of the World Pre AP
World History \& Civilization
World History AP
U.S. History
U.S. History AP

Economics
Macro Economics AP
U.S. Government

Psychology
Psychology AP
Sociology

## Geography and History of the World

Grade 9
Prerequisite - None
This two semester course will serve as the standard social studies requirement for freshmen. Students will use geographical skills and historical concepts to deepen their understanding of global themes. Students will use research tools to ask questions and acquire relevant information. They will use primary and secondary sources, produce maps, timelines and other graphic representations to interpret geographic and historical problems and events. Key concepts include change over time, cultural landscape, diffusion, human environment interactions, physical systems, and spatial organization and variation.

## Geography and History of the World Pre AP

## Grade

9
9
$10-12$
10-12
11
11
12
12
12
11-12
11-12
10-12

## Prerequisites

None
A or B average in $8^{\text {th }}$ grade Social Studies
None
None
None
None
None
None
None
None
None
None

## Grade 9

Prerequisite - A or B average in $8^{\text {th }}$ grade Social Studies

## World History and Civilization

2 Semesters / 2 Credits
Grade 10-12
Prerequisite - None
This course emphasizes events and developments in the past that greatly affected large numbers of people across broad areas and that significantly influenced peoples and places in subsequent eras. Key events related to people and places as well as transcultural interaction and exchanges are examined in this course. Students are expected to compare and contrast events and developments involving diverse peoples and civilizations in different regions of the world. They will examine examples of continuity and change, universality and particularity, and unity and diversity among various peoples and cultures from the past to the present.

## World History Advanced Placement

2 Semesters / 2 Credits
Grade 10-12
Prerequisite - None (Geography History of the World Pre-AP and/or English 9 Pre-AP recommended)
This course provides students with the content established by the College Board. The course will have a chronological frame from the periods 8,000 B.C.E. to the present. AP World History focuses on five overarching themes: Interaction Between Humans and the Environment, Development and Interaction of Cultures, State-Building, Expansion, and Conflict, Creation, Expansion, and Interaction of Economic Systems, Development and Transformation of Social Structures. Students signing up for this class are required to take the AP exam in May.

United States History
2 Semesters / 2 Credits
Grade 11
Prerequisite - None
United States History is a required two-semester course designed for all juniors. US History will expand upon concepts learned in prior American History courses and emphasize national development from the Civil War period through the $21^{\text {st }}$ century. Students will learn through a variety of sources including primary sources, historical and contemporary sources, internet activities and research. Students will study common themes throughout America's history, key events and people, various movements, and how all related to life in the United States and in Indiana.

## United States History Advanced Placement

2 Semesters / 2 Credits
Grade 11- Fulfills U.S. History Requirement
Prerequisite - None (pre-AP World History and/or Pre-AP English recommended)
This course is designed for Franklin Central students looking to challenge themselves beyond the required U. S. History class. The yearlong study of United States history will prepare the student for success on the Advanced Placement U.S. History exam, which may earn college credit. Students signing up for AP U.S. History should possess strong reading, writing, critical thinking, and discussion abilities. Students should expect 5-7 hours of homework per week for this course, the majority of which will involve reading and notetaking. Students signing up for this class are required to take the AP exam in May.

Grade 12
Prerequisite - None
This course, required of all seniors, will include an investigation of the mechanics and operation of the various political institutions of our nation. Civics and Government will be the major focus of the course while other areas such as history, geography, economics, and cultures will play a supporting role. This course is the culmination of the thinking, inquiry and research, and participation skill developed throughout the social studies curriculum. Political activism, the role of the Court, the Presidency, and the Congress, are units of study. A number of learn-and-do or learn-by-doing activities are part of the class, which also employs large group-small group team instruction, internet learning, and community service opportunities. Students will be exposed to all levels of society in an effort to properly prepare them for the social realities of the modern political world.

## Economics

1 Semester / 1 Credit
Grade 12
Prerequisite - None
This course, required of all seniors, is designed to stimulate the students' awareness of, and continuing interest in, problems of market pricing and supply and demand. Basic math skills are required. An understanding of economic principles will enable students to master a few basic economic problems as a means of thinking intelligently and analytically relative to a variety of modern-day economic problems. Individual units apply this information to a variety of policy problems such as poverty, taxes, pollution, economic growth, money/banking, gross domestic product, and prices and interest rate changes. Students will gain fundamental understanding of the stock market, the time value of money, and the impact of each of their lives, and demonstrate these by means of a special project.

## Macro Economics Advanced Placement

1 Semester / 1 Credit
Grade 12 -One semester Fulfills Economics Requirement-Recommended for students who earned an A or B in US History Prerequisite - None
This one semester course is a continuation of the college-level course and is strongly recommended to those students who plan to attend college. An Advanced Placement exam will be available for this course in May. All materials used in this course are from universities throughout the country, as are the exams. Completion of Algebra II is recommended. An understanding of economics will enable students to master a few basic economic problems as a means of thinking intelligently and analytically relative to a variety of policy problems such as aggregate demand/supply, economic growth, deficits, debts, interest rates, loans, and international trade. Students should expect 4-5 hours of homework per week for this course, the majority of which will involve reading and homework. Students signing up for this class are required to take the AP exam in May.

## U. S. Government Advanced Placement

1 Semester / 1 Credit
Grade 12 - Fulfills U. S. Government Requirement
Prerequisite - U. S. History credit with a minimum grade of C .
This course is intended for motivated, hard-working, college bound seniors. This course is a comprehensive study of American government. It will prepare students for the rigors of the college classroom as well as anticipated success on the College Board's Advanced Placement U. S. Government and Politics exam. Students will develop college-level reading, writing, critical thinking, discussion, and notetaking skills. Therefore only those seniors who will remain serious and focused are encouraged to take this challenging yet rewarding course. Students who take this course are also encouraged to take the companion course in AP Comparative Government and politics in the spring. Students signing up for this class are required to take the AP exam in May.

Psychology
1 Semester / 1 Credit
Grades 11-12
Prerequisite - None
This course will provide the students the opportunity to examine psychology as the scientific study of mental processes and behavior. The students will study the history and background of psychology, the scientific method, the biological bases of behavior, sensation and perception, human development, cognition, personality, abnormal psychology, and the socio-cultural bases of behavior. Students will gain an understanding of the behaviors of themselves and others. This course is challenging and utilizes a variety of activities that require and emphasize critical thinking skills. The class is designed to prepare students for entry-level college psychology courses.

## Psychology Advanced Placement

2 Semesters/ 2 Credits
Grades 11-12
Prerequisite - None
Advanced Placement Psychology is a course based on content established by the College Board. This yearlong course is designed to introduce students to the systematic and scientific study of behavior and mental processes and will prepare the student for success on the Advanced Placement Psychology exam, which may earn college credit. Topics include: (1) History and Approaches, (2) Research Methods, (3) Biological Bases of Behavior, (4) Sensation and Perception, (5) States of Consciousness, (6) Learning, (7) Cognition, (8) Motivation and Emotion, (9) Development Psychology, (10) Personality, (11) Testing and Individual Differences, (12) Abnormal Psychology, (13) Treatment of Abnormal Behavior, and (14) Social Psychology. Students signing up for this class should possess strong reading, writing, critical thinking, and discussion abilities. Students should expect 4-5 hours of homework per week for this course, the majority of which will involve reading. It is expected that students will be self-motivated and prepared to accept the responsibility of a college level course. Students signing up for this class are required to take the AP exam in May.

## Sociology

1 Semester / 1 Credit
Grades 10-12
This one semester course is an introduction for the college-bound student to the theories and concepts of sociology. The primary focus is an examination of human groups and their behavior, including units such as adolescence and teenage years, race and ethnicity, culture, deviant behavior and social control and the institutions of the religion, education and the family.

A student will be awarded special education services based on a Case Conference Committee decision. This committee shall consist of a general education teacher, a special education teacher, parents/ guardians, the student, an administrator, and any other provider of educational services. Placement in all of these courses will be determined at the Case Conference. Within the special education department a student may take the following skill courses.

Developmental Reading
Curriculum Tutoring
Pre-Vocational Education Work Program

Developmental Reading: This semester long course is designed to help students improve their reading skills by focusing on fluency, decoding skills, use of context cues, vocabulary development and comprehensions skills.
(One elective credit per semester)

Pre-Vocational Education Work Program: During the Junior and Senior years of high school, including summers, students will have the opportunity to receive elective credits for community work experience. Number of credits earned per semester depends on the number of hours worked and verification from the employer by the department chair.
(Up to four credits per semester)

Curriculum Tutoring: This semester long course is designed to provide a smaller setting for students to use in place of a study hall. This structured environment allows the student to get assistance with assignments, organize materials, and more time to complete tests, quizzes or projects. No credit is awarded for this class.

## Partnerships Accelerating Community Education (PACE)

Through a case conference, a student can be eligible for the PACE Program, Partnerships Accelerating Community Education. This is a comprehensive program developed to prepare students for entry into the world of work. This program is designed for high school students with mild and moderate disabilities, who are unable to meet the End of Course requirements outlined by the Indiana Department of Education for a high school diploma. Students in this program must earn 16 credits in functional academics which would include Reading Lab, Writing Lab, and Math Lab; 4 credits in life skills; 4 credits in Prevocational Education; 1 Health credit; 2 Physical Education credits; and one credit in keyboarding. Pre-Vocational Education Work Program: During the Junior and Senior years of high school, including summers, students will have the opportunity to receive elective credits for community work experience. This will enrich the educational curriculum and add to their vocational experience. Other options for our juniors and seniors include participation in a vocational program at the Central Nine Career Center. Students enrolled in these courses will earn a Certificate of Completion. These courses DO NOT count as CORE 40 courses, and will not allow a student to graduate with an Indiana Diploma.

## Comprehensive Intervention Program (CIP)

Through a case conference, a student may be eligible for the CIP Program, Comprehensive Intervention Program. This is a comprehensive program developed to meet the individual needs of students with more significant disabilities. The program is designed to meet the functional and vocational needs of each student and prepare them for independent living and the world of work. Adapted Physical Education is a component of this program; effective the 2012-2013 school year, adaptive physical education will be offered during the student's freshman and sophomore year in the CIP program. Students in this program will receive a Certificate of Completion when they exit Franklin Central High School.

## Technology Education Department

Technology Education provides students with the opportunity to explore technology through broad areas which include: communication, manufacturing, and design. Students use tools, machines, and materials to produce a variety of products and participate in various related hands-on activities. Students are encouraged to explore as many of the clusters of technology as possible to provide them with a well-rounded technology education. For a student to continue beyond a first semester (systems class) in a technology cluster, a grade of " C " in that area is recommended.

Course
$\begin{array}{lr}\text { Communication Systems } & 9-12 \\ \text { Introduction to Communications } & 9-12 \\ \text { Introduction to Manufacturing } & 9-12 \\ \text { Introduction to Advanced Manufacturing and Logistics } & 9-12\end{array}$
Project Lead the Way - Engineering Academy
Introduction to Engineering Design
Civil Engineering and Architecture
Principles of Engineering

Grade

10-12

Prerequisite
none
Basic computer knowledge
none
none

## none

none
Introduction to Engineering or Civil Engineering

## Communication Systems

1 Semester / 1 Credit
Grades 9-12
Prerequisite - none
Communication Systems is a course that specializes in how people use modern communication systems to exchange information and ideas. These systems allow people to grow intellectually, express feelings, and better understand diverse cultures. This course explores the application of the tools, materials, and techniques used to design, produce, use, and assess systems of communication. Instructional strategies introduce students to the world of communication technology through a variety of means including: presentations, discussions, and laboratory activities. Student will produce graphic and electronic media as they apply communication technologies. Most activities are designed for small group work since communication takes place between two parties or machines.

## Introduction to Communications

1 Semester / 1 Credit

## Grades 9-12

Prerequisite - none (computer knowledge needed)
Introduction to Communications is a course that specializes in identifying and using modern communication to exchange messages and information. This course explores the application of the tools, materials, and techniques used to design, produce, use, and assess systems of communication. Students will produce graphic and electronic media as they apply communication technologies. This course will also explore the various technical processes used to link ideas and people through the use of electronic and graphic media. Major goals of this course include an overview of communication technology; the way it has evolved, how messages are designed and produced, and how people may profit from creating information services and products. Students will explore mass media communication processes including radio and television broadcasting, publishing and printing activities, telecommunication networks, recording services, computer and data processing networks, and other related systems. Using the base knowledge student will use the design process to solve design projects in each communication area. This course is also a part of the "Web \& Digital Communications" Pathway in the Business Department.

## Introduction to Manufacturing

1 Semester / 1 Credit
Grades 9-12
Prerequisite - none
Materials project fee: \$20 average
Introduction to Manufacturing is a course that specializes in how people use modern manufacturing systems with an introduction to manufacturing technology and its relationship to society, individuals, and the environment. An understanding of manufacturing provides a background toward developing engineering \& technological literacy. This understanding is developed through the study of the two major technologies, material processing and management technology, used by all manufacturing enterprises. Students will apply the skills and knowledge of using modern manufacturing processes to obtain resources and change them into industrial materials, industrial products and consumer products. Students will investigate the properties of engineered materials such as: metallics; polymers; ceramics; and composites. After gaining a working knowledge of these materials, students will study six major types of material processes: casting and molding; forming; separating; conditioning; finishing; and assembling.

## Introduction to Advanced Manufacturing and Logistics

1 Semester / 1 Credit
Grades 9-12
Prerequisites - none
Introduction to Advanced Manufacturing and Logistics is a course that specializes in how people use modern manufacturing systems with an introduction to advanced manufacturing and logistics. Students are introduced to advanced manufacturing, logistics, and business principles that are utilized in today's advanced manufacturing industry. Students gain a basic understanding of tooling, electrical skills, operation skills, inventory principles, and chart and graph reading. There is also an emphasis placed on the flow process principles, material movement, safety, and related business operations. Students have the opportunity to develop the characteristics employers seek as well as skills that will help them in future endeavors.

## Engineering Academy - Project Lead the Way:

Project Lead The Way: PLTW is a four year sequence of courses which, when combined with college preparatory mathematics and science courses in high school, introduces students to the scope, rigor and discipline of engineering and engineering technology prior to entering college.

## Ivy Technical College awards transferable college credits (3 credit hours for each Engineering Academy class) for no cost.

The following are the dual credit requirements:

- Student must complete the course with an $85 \%$ average
- Student must compile a course portfolio of his or her work
- Student must score at least $70 \%$ on the PLTW college examination


## Introduction to Engineering Design (Elective)

2 Semesters / 2 Credits
Grades 9-12
Prerequisite - At least a " $C$ " student in Algebra.
This course is an introduction to problem solving with an emphasis placed on the development of three-dimensional computer models. Students will progress from sketching simple geometric shapes to applying a solid modeling computer software package to design real products. They will learn a problem solving design process and how it is used in industry to manufacture a product.

## Principles of Engineering (Elective)

2 Semesters / 2 Credits
Grades 10-12
Prerequisite - Introduction to Engineering Design or Civil Engineering and Architecture, Algebra II, and Geometry
Principles of Engineering helps students understand the field of engineering/engineering technology. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. The course also includes concerns about social and political consequences of technological change.

Civil Engineering and Architecture (Elective)
2 Semesters / 2 Credits
Grade 9-12
Civil Engineering and Architecture provides an overview of the fields of Civil Engineering and Architecture, while emphasizing the interrelationship and dependence of both fields on each other. Students use state of the art software to solve real world problems and communicate solutions to hands-on projects and activities.


## World Language Department

All world language courses are designed for students who have demonstrated a willingness to commit considerable time to studying and completing assignments both inside and outside of class. Excellent verbal and written skills are recommended for the study of a world language at any level. Above average grades in previous English classes are recommended for enrollment. All world language courses include extensive vocabulary building and enrichment activities. While world language requirements for colleges and universities may differ, many are beginning to require one or two years of world language study for admission. Because most colleges and universities offer world language placement exams in order to place students in the appropriate level of study, it is strongly suggested that four years of the same language be studied for maximum skill development. Students who continue the study of one language for four or five years may have greater opportunities for placement in higher level language courses at the university level or may meet the world language requirements for the major(s) selected. All world language courses at Franklin Central are electives. In order to place students in the appropriate level of instruction those students transferring to Franklin Central from another school, or students enrolling with prior experience or knowledge of the target language may be asked to take semester exams and other assessments that demonstrate proficiency in the four major skill areas of learning a world language: listening, speaking, reading and writing.

| Course | Prerequisites | Course | Prerequisites | Course | Prerequisites |
| :--- | :---: | :--- | :--- | :--- | :---: |
| French I | None | German I | None | Spanish I | None |
| French II | French I | German II | German I | Spanish II | Spanish I |
| French III | French II | German III | German II | Spanish III | Spanish II |
| French IV | French III | German IV | German III | Spanish IV | Spanish III |
| French AP | French IV | German AP | German IV | Spanish AP | Spanish IV |

Levels III, IV and AP of all languages require a teacher recommendation and/ or a C- or in each of the previous semesters.

One year sequenced course of study.
Students at the beginning level will practice correct pronunciation, intonation, and expression in the target language through oral drill and repetition, guided conversations, presentations, dialogues and lecture. Some instruction takes place in the target language. Oral participation in the target language is required. Students will be expected to read short narratives or texts on simple topics and respond in writing using familiar vocabulary and phrases and appropriate grammatical structure. Students will develop an appreciation for the contributions the target cultures have made to the United States and the world.

## French II, German II, Spanish II

2 Semesters / 2 Credits
One year sequenced course of study.
Prerequisite: Students must receive 2 credits in the previous level of study. (C-in the previous level is recommended.)
The Level II world language courses provide students the opportunity to continue skill development that began in Level I. The courses are designed to expand oral proficiency with emphasis on correct pronunciation and intonation. Oral participation in the target language is required. Vocabulary building and a sound understanding of grammatical structures are required. The main verb tenses of the target languages are taught at this level. Students will communicate in the target language in both oral and written activities. Selected short stories, readings or articles are read for understanding and discussion in the target language. Students learn to compare and contrast experiences of the target language cultures with their own. Students will study the unique aspects of the target cultures, such as geography, history, holidays, and customs, at an intermediate level of study.

## French III, German III, Spanish III Pre AP

2 Semesters / 2 Credits
One year sequenced course of study.
Prerequisite: Students must receive 2 credits in the previous level of study.
The third year study of world language is a challenging continuation of course work in the target language, at a faster pace. All instruction will be in the target language. Students will demonstrate oral proficiency to factual and interpretive questions from a variety of social situations. Oral participation in the target language is required. Students will read from authentic materials such as newspapers, magazines, cartoons, and personal correspondence. Literary selections will include selections of poetry, short stories, and/or a condensed novel version of classic literature from the target cultures. Fundamental concepts of the main verb tenses and other structures are reviewed. Students are expected to express themselves proficiently in oral and written work. Classroom projects and discussions provide opportunities for original critical and creative thinking. It is mandatory that all students work efficiently and effectively in both individual and group work. At this level, the course work includes the study of the major historical, political, and social structures as well as the art, music, and other cultural contributions the target cultures has given to the global society.

French IV, German IV, Spanish IV Pre AP
2 Semesters / 2 Credits
One year sequenced course of study.
Prerequisite: Students must receive 2 credits in the previous level of study.
Students will demonstrate the ability to respond to factual and interpretive questions in the target language. Instruction is conducted in the target language. Oral participation in the target language is required. Critical analysis of different literary, musical, and artistic genre is expected and students will read from detailed, authentic materials such as newspapers, magazines, essays, short stories, poetry and novels. Students will write well organized compositions in the target language on a given topic. The traditions, historical and contemporary events, important contributors, and other cultural topics will be researched and oral presentations will be given in the target language. It is mandatory that all students work efficiently and effectively in both individual and group work.

## French Language AP, German Language AP, Spanish Language AP

2 Semesters / 2 Credits
One year sequenced course of study.
Prerequisite: Students must receive 2 credits in French III, German III, or Spanish III.
Courses are designed to follow AP testing guidelines and format.
Students will enhance oral and auditory proficiency in the target language through a variety of guided and independent instructional activities. Instruction is conducted in the target language. Oral participation in the target language is required. The students will continue to submit essays, taped oral activities in the target language, a critical analysis of a selected literary reading and a project centered on enhancing cultural awareness. Instructors will provide assistance and guidance for the more advanced grammatical structure, vocabulary and idiomatic expressions. However, any review of the basic grammatical structure will be done independently with materials provided by the instructors. Students are expected to participate appropriately in a variety of specific circumstances and events which can include meetings, concerts, and other activities that offer cultural understanding and enrichment. Students signing up for this class are required to take the AP exam in May.
Also Note: In order to receive the maximum benefit of academic placement, this course is not recommended for mid-term graduates.

