COURSE DESCRIPTION GUIDE

2012-2013

FISHERS HIGH SCHOOL

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Fishers, IN 46038

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MESSAGE FROM THE PRINCIPAL

To all Fishers High School Students and Parents:

The 2012-2013 academic year will bring new challenges and opportunities for Fishers High School (FHS) students and families. This course description guide will provide important information regarding our nearly 200 course offerings. The academic experience at FHS can prepare **every** student for success. Success depends heavily upon the decisions made regarding a student's educational program. A typical graduate will experience a total of approximately 30 courses during their four-year high school career. Careful consideration should be given in making selections that will best prepare students for life after graduation.

This curriculum guide is designed to assist students and parents in developing the best possible course of study. Students can make the most of their high school experience by choosing a variety of subjects and challenging coursework. When developing your four-year plan, consider course offerings that will best help you achieve your goals. We encourage FHS students to take risks and dream big! We know when we support these dreams they often come true.

Students and parents are urged to consult with school officials whenever questions arise. Each student should use a team consisting of faculty and parents in establishing immediate and long-range plans. A close relationship among these team members is essential, and by working together, we will enable our students to achieve success in high school, college and beyond. Good luck in this very important process!

Sincerely,

Jason Urban
Principal

FORWARD

FISHERS HIGH SCHOOL VISION STATEMENT

The Fishers High School educational community will nurture a culture of excellence and empower students to become lifelong learners.

MISSION

Promote Respect ~ Foster Pride ~ Inspire Excellence

CURRICULUM FOCUS

The students of Fishers High School are supported by a comprehensive college preparatory curriculum. We believe that regardless of the post secondary choice of our students, all graduates of Fishers High School should be prepared for the academic rigor of college coursework. With this as our benchmark we believe we are preparing our students for success.

ACCREDITATION

Fishers High School is a member of the prestigious AdvancED. The purpose of AdvancED is the development and maintenance of high standards of excellence for universities, colleges, and schools, the continued improvement of the educational program and the effectiveness of instruction on school and college levels.

Fishers High School is a member of The College Board. The College Board is the governing organization of the Scholastic Aptitude Test (SAT) and Preliminary Scholastic Aptitude Test (PSAT). In addition, The College Board oversees Advance Placement courses nationally. Our membership on The College Board signals our commitment to excellence in education and affords us the opportunity to receive advanced information regarding changes in upcoming SAT/PSAT test administrations.

STATEMENT OF NONDISCRIMINATION

The Hamilton Southeastern School District is an equal opportunity employer and does not discriminate on the basis of age, race, color, religion, sex, national origin, or handicapping condition. No person is excluded from participation in, denied the benefits of, or otherwise subjected to unlawful discrimination on such basis in any educational program or student activity. If you have experienced discrimination in such educational programs or activities, written inquiries about procedures are available. Consideration of complaints alleging such discrimination should be directed to the Superintendent of Schools, 13327 Cumberland Road, Fishers, IN 46038

Fishers High School
Core 40 Diploma Requirements 2012-2013

Requirements	*Credits*
Language Arts	**8**
English 9	**2**
English 10	**2**
* English 11, The American Exp Eng 11, AP Lit and Comp, AP Language and Comp, or IB Language HL-year 1	**2**
Students MUST earn at least 1 credit in a course from Group A. **GROUP A**: AP Lit and Comp, AP Lang and Comp, IB Lang A1-year 2, ACP Comp, Comp, or Eng 12 with approval **GROUP B**: Speech, ACP Speech, English 12 with approval, Creative Writing, ACP Lit, Literary Movements or Classical Literature	**2**
Social Studies	**6**
U.S. History or The American Exp US History	**2**
Government	**1**
Economics	**1**
World History or Geography and History of the World	**2**
Mathematics **	**6**
Algebra I	**2**
Geometry	**2**
Algebra II	**2**
Science	**6**
Biology	**2**
Chemistry I, Physics, or Integrated Chemistry Physics (ICP)	**2**
Choose two additional credits: Chemistry, Physics, Earth Space Science, Integrated Chemistry and Physics (ICP), or Advanced Science	**2**
Health	**1**
Physical Education (2 semesters)	**2**
Directed Electives	**5**
World Languages	
Fine Arts	
Career / Technical	
Computer Applications ***	**1**
Required Elective Credits	**7**
(College and Career Pathway Courses are recommended) Recommended)	-----
Credits Required for Graduation -	**42**

ADDITIONAL CORE 40 DIPLOMA REQUIREMENTS LISTED ON FOLLOWING PAGE

ADDITIONAL CORE 40 DIPLOMA REQUIREMENTS

* Students who successfully complete APLAC, APELIT, or IB fulfill the graduation requirement for Group A and will not have to take a Group A course their senior year.

** Courses taken for high school credit while a student is in junior high will count toward Core 40 or Academic Honors Diploma credit requirements. However, the student must take a mathematics or physics course during his/her junior or senior year.

****Beginning with the class of 2016, students are required to earn 6 credits of math in grades 9-12 and must enroll in a math or quantitative reasoning course each year in high school.**

***Keyboarding or Digital Communication Tools is a prerequisite to take Computer Applications. A student does have the option to test out of Keyboarding and Computer Applications. If a student does test out of Keyboarding or Computer Applications they would not receive the credit. Successful completion of Keyboarding in Jr. High meets the prerequisite for Computer Applications

Fishers High School
Core 40 Diploma with ACADEMIC HONORS 2012-2013

Requirements	*Credits*
Language Arts	**8**
English 9	**2**
English 10	**2**
* English 11, The American Exp Eng 11, AP Lit and Comp, AP Language and Comp or IB Language HL-year 1	**2**
Students MUST earn at least 1 credit in a course from Group A. **GROUP A**: AP Lit and Comp, AP Lang and Comp, IB Lang A1- year 2, ACP Comp, Comp, or English 12 with approval **GROUP B**: Speech, ACP Speech, English 12 with approval, Creative Writing, ACP Lit, Literary Movements or Classical Literature	**2**
Social Studies	**6**
U.S. History or The American Exp US History	**2**
Government	**1**
Economics	**1**
World History or Geography and History of the World	**2**
Mathematics**	**8**
Algebra I	**2**
Geometry	**2**
Algebra II	**2**
Pre-Calculus, Trigonometry, Honors Pre-Calculus, Discrete Mathematics, Statistics and Probability or AP/IB Statistics	**2**
Science	**6**
Biology	**2**
Chemistry I, Physics, or Integrated Chemistry Physics (ICP)	**2**
Choose two additional credits: Chemistry, Physics, Earth Space Science, Integrated Chemistry Physics (ICP), or Advance Science	**2**
World Languages**	
Choose one of the following: 1. Three years of one language -or- 2. Two years of one language and two years of another language	**6** **8**
Fine Arts	**2**
Health	**1**
Physical Education (2 semesters)	**2**
Computer Applications***	**1**
Required Elective Credits - (5 if two different languages)	**7**
(Career Academic Sequence Recommended)	**-----**
Credits Required for Graduation -	**47**

ADDITIONAL CORE 40 DIPLOMA WITH ACADEMIC HONORS REQUIREMENTS LISTED ON FOLLOWING PAGE

ADDITIONAL CORE 40 DIPLOMA WITH ACADEMIC HONORS REQUIREMENTS

*Students who successfully complete APLAC, APELIT, or IB in their junior year fulfill the graduation requirement for Group A and will not have to take a Group A course their senior year.

**Courses taken for high school credit while a student is in junior high will count toward Core 40 or Academic Honors Diploma credit requirements. However, the student must take a mathematics or physics course during his/her junior or senior year

***Keyboarding or Digital Communication Tools is a prerequisite to take Computer Applications. A student does have the option to test out of Keyboarding and Computer Applications. If a student does test out of Keyboarding or Computer Applications they would not receive the credit. Successful completion of Keyboarding in Jr. High meets the prerequisite for Computer Applications

CLASS OF 2013 – CLASS OF 2015

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

- Earn a grade of "C-" or above in courses that will count toward the diploma
- Have a grade point average of "3.0" or above
- Earn a minimum of 47 credits
- Complete one of the following:
    A. 4 credits in Advanced Placement courses and corresponding AP exams
    B. 4 credits in IB HL courses and corresponding IB exams
    C. Academic, transferable dual high school/college courses resulting in 6 college credits
    D. 2 credits in Advanced Placement courses and corresponding AP exam and academic transferable dual high school/college courses resulting in 3 college credits
    E. Score 1200 or higher combined SAT math and critical reading
    F. Score a 26 composite ACT
    G. An International Baccalaureate Diploma

CLASS OF 2016 AND BEYOND:

**Beginning with the class of 2016, students are required to earn 6 credits of math in grades 9-12 and must enroll in a math or quantitative reasoning course each year in high school.

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

- Earn a grade of "C-" or above in courses that will count toward the diploma
- Have a grade point average of "3.0" or above
- Earn a minimum of 47 credits
- Complete one of the following:
    A. 4 credits in Advanced Placement courses and corresponding AP exams
    B. 4 credits in IB courses and corresponding IB exams
    C. Earn 6 verifiable, transcripted college credits in dual credit courses from priority course list
    D. Earn two of the following:
        1. A minimum of 3 verifiable, transcripted college credits from priority course list
        2. 2 credits in AP courses and corresponding exams
        3. 2 credits in IB standard level courses and corresponding exams
    E. Score 1750 composite (includes math, critical reading, and writing) and no less than 530 on each section
    F. Score a 26 composite ACT – must include the writing portion of the ACT

Fishers High School
Core 40 Diploma with TECHNICAL HONORS 2012-2013

Requirements	*Credits*
Language Arts	**8**
English 9	**2**
English 10	**2**
* English 11, The American Exp Eng 11, AP Lit and Composition, AP Language and Comp, or IB Language HL-year 1	**2**
Students MUST earn at least 1 credit in a course from Group A. **GROUP A**: AP Lit and Comp, AP Lang and Comp, IB Lang A1-year 2, ACP Comp, Comp, or English 12 with approval **GROUP B**: Speech, ACP Speech, English 12 with approval, Creative Writing, ACP Lit, Literary Movements, or Classical Literature	**2**
Social Studies	**6**
U.S. History or The American Exp US History	**2**
Government	**1**
Economics	**1**
World History or Geography and History of the World	**2**
Mathematics**	**6**
Algebra I	**2**
Geometry	**2**
Algebra II	**2**
Science	**6**
Biology	**2**
Chemistry I, Physics, or Integrated Chemistry Physics (ICP)	**2**
Choose two additional credits: Chemistry, Physics, Earth Space Science, Integrated Chemistry and Physics (ICP), or Advanced Science	**2**
Health	**1**
Physical Education (2 semesters)	**2**
Directed Electives	**5**
World Languages	
Fine Arts	
Career / Technical	
Computer Applications ***	**1**
Career-technical program	**8-10**
Required electives (Career Academic Sequence Recommended)	**2-4**
Credits Required for Graduation -	**47**

ADDITIONAL CORE 40 DIPLOMA WITH TECHNICAL HONORS REQUIREMENTS LISTED ON FOLLOWING PAGE

ADDITIONAL CORE 40 DIPLOMA WITH TECHNICAL HONORS REQUIREMENTS

*Students who successfully complete APLAC, APELIT, or IB fulfill the graduation requirement for Group A and will not have to take a Group A course their senior year.

** Courses taken for high school credit while a student is in junior high will count toward Core 40, Academic Honors Diploma, or Technical Honors credit requirements. However, the student must take a mathematics or physics course during his/her junior or senior year.

*** Keyboarding or Digital Communication Tools is a prerequisite to take Computer Applications. A student does have the option to test out of Keyboarding and Computer Applications. If a student does test out of Keyboarding or Computer Applications they would not receive the credit. Successful completion of Keyboarding in Jr. High meets the prerequisite for Computer Applications

CLASS OF 2013 – CLASS OF 2015

For the Core 40 with Technical Honors Diploma, students must also:

- Earn a "C-" or above in courses that count toward the diploma
- Have a grade point average of "3.0" or above
- Earn a minimum of 47 credits
- Complete a career-technical program resulting in 8-10 credits
- Complete state recognized certification requirements by completing **two** of the options below, one of which must be A or B:
    A. Take WorkKeys, an industry driven assessment, and score at or above a designated level on each of the three core readiness subject areas (Applied Mathematics, Reading for Information, and Locating Information)
    B. Technical, transferable dual high school/college credit courses resulting in 6 college credits
    C. Professional career internship or cooperative education
    D. A state approved industry recognized certification

CLASS OF 2016 AND BEYOND:

**Beginning with the class of 2016, students are required to earn 6 credits of math in grades 9-12 and must enroll in a math or quantitative reasoning course each year in high school.

For the Core 40 with Technical Honors Diploma, students must also:

- Earn a "C-" or above in courses that count toward the diploma
- Have a grade point average of "3.0" or above
- Earn a minimum of 47 credits
- Earn 6 credits in a college and career preparation courses in a state-approved College & Career Pathway and one of the following:
    1. Pathway designated industry-based certification or credential, or
    2. Pathway dual credits from the lists of priority courses resulting in 6 transcripted college credits
- Complete **one** of the following:
    A. Earn the following scores or higher on WorkKeys; Reading for Information – Level 6, Applied Mathematics – Level 6, and Locating Information – Level 5.
    B. Earn the following minimum scores on Accuplacer: Writing 80, Reading 90, Math 75
    C. Earn the following minimum scores on Compass: Algebra 66, Writing 70, Reading 80
    D. Complete any one of the options (A-F) of the Core 40 with Academic Honors

Fishers High School
General Diploma Requirements 2012-2013

	Credits
Language Arts	**8**
English 9	**2**
English 10	**2**
* English 11, The American Exp Eng 11, AP Lit and Comp, AP Language and Comp, or IB Language HL-year 1	**2**
Students MUST earn at least 1 credit in a course from Group A. **GROUP A**: AP Lit and Comp, AP Lang and Comp, IB Lang A1-year 2, ACP Comp, Comp or English 12 with approval **GROUP B**: Speech, ACP Speech, English 12 with approval, Creative Writing, ACP Lit, Literary Movements or Classical Literature	**2**
Social Studies	**4**
U.S. History or The American Exp US History	**2**
Government	**1**
Economics	**1**
Mathematics**	**6**
Algebra I	**2**
Other Math course (year long course)	**2**
Other Math course (year long course)	**2**
Science ***	**4**
Biology	**2**
Other Science Course	**2**
Health	**1**
Physical Education (2 semesters)	**2**
College and Career Pathway Credits******	**5**
Computer Applications *******	**1**
Flex Credits********	**5**
Required Elective Credits	**6**

Credits Required for Graduation -	**42**

ADDITIONAL GENERAL DIPLOMA REQUIREMENTS LISTED ON THE FOLLOWING PAGE

ADDITIONAL GENERAL DIPLOMA REQUIREMENTS

*****Students who successfully complete APLAC, APELIT, or IB fulfill the graduation requirement for Group A and will not have to take a Group A course their senior year.

****Beginning with the Class of 2016** and beyond, two credits in Math or Quantitative Reasoning courses must be earned during the junior or senior year. **Quantitative Reasoning courses do not count as math credits.**

*****The four credits in Science must include content from more than one of the Science disciplines: Earth/Space Science, Biological Sciences, Physical Sciences, and Environmental Science

******College and Career Pathway Courses - Selecting classes in a deliberate manner to take full advantage of career

*******Keyboarding or Digital Communication Tools** is a prerequisite to take **Computer Applications**. A student does have the option to **test out** of Keyboarding and Computer Applications. If a student does test out of Keyboarding or Computer Applications they would **not** receive the credit. Successful completion of Keyboarding in Jr. High meets the prerequisite for Computer Applications

********To earn the 5 Flex Credits a student must complete one of the following:

- Additional courses to extend the College and Career Pathway
- Courses involving workplace learning such as Cooperative Education or Internship courses
- High school/college dual credit courses
- Additional courses in: Language Arts, Social Studies, Mathematics, Science, World Languages, or Fine Arts

OPT - OUT OF CORE 40 PROCESS

Beginning with the students who enter high school in 2007-2008, the completion of Core 40 becomes an Indiana graduation requirement. Indiana's Core 40 curriculum provides the academic foundation all students need to succeed in college and the workforce. To graduate with less than Core 40, the following formal opt-out process must be completed:

- The student, the student's parent/guardian, and the student's counselor (or another staff member who assists students in course selection) must meet to discuss the student's progress.
- The student's Graduation Plan is reviewed.
- The student's parent/guardian determines whether the student will achieve greater educational benefits by completing the general curriculum or the Core 40 curriculum.

If the decision is made to opt-out of Core 40, the student is required to complete the course and credit requirements for a general diploma (same as the class of 2010) and the career/academic sequence the student will pursue is determined.

INTERNATIONAL BACCALAUREATE (IB) DIPLOMA

The International Baccalaureate (IB) Diploma is a rigorous pre-university course of studies, leading to examinations, which meet the needs of highly motivated secondary school students between the ages of 16 and 19 years. Designed as a comprehensive two-year curriculum that allows its graduates to fulfill requirements of various national and international education systems, the diploma model is based on the pattern of no single country but incorporates the best elements of many. The program offers special features in addition to the traditional strengths of a liberal arts curriculum.

Theory of Knowledge (TOK) is a required interdisciplinary course intended to stimulate critical reflection upon the knowledge and experience gained inside and outside the classroom. TOK challenges students to question assumptions about knowledge, to be aware of subjective and ideological biases, and to develop a personal mode of thought, using analysis of evidence expressed in rational argument. A key element in the IB's educational philosophy, TOK seeks to develop a coherent approach to learning which transcends and unifies the academic subjects and encourages appreciation of other cultural perspectives.

Creativity, Action, Service (CAS) is a key requirement of the diploma curriculum. Students are required to earn 180 hours among these three elements in order to develop awareness, concern, and the ability to work cooperatively with others.

Extended Essay is another requirement for diploma candidates who must undertake original research and write an essay of 4000 words.

Curriculum – The International Baccalaureate is a two year program that contains six academic areas surrounding a core. Subjects are studied concurrently, and students are exposed to the two great traditions of learning: the humanities and the sciences. Diploma candidates are required to select one subject from each of the six subject groups. At least three and not more than four are taken at Higher Level (HL), the others are Standard Level (SL). HL courses represent 240 teaching hours; SL courses cover 150 hours. By arranging work in this fashion, students are able to explore some subjects in depth and some more broadly over the two year period.

Evaluation – The International Baccalaureate Program uses a variety of assessment measures to evaluate the content and the process of academic achievement and to take into account different learning styles and cultural patterns. These include internal assessments by classroom teachers over a two year period, based upon oral and written work, and/or laboratory notebooks. Conventional external examinations are also given in each subject during the first three weeks of May. These exams last four hours and may include essays, short answer, multiple choice, etc. Classroom teachers along with more than 3,000 international examiners work in partnership to ensure that students have ample opportunity to demonstrate what they know. Each exam is graded on a scale of 1 (minimum) to 7 (maximum). The award of the Diploma requires students to meet defined standards and conditions, including a minimum total of 24 points and satisfactory completion of the Extended Essay, Theory of Knowledge (TOK) and CAS activities. In June the exams are graded and in July the Diplomas are awarded. The maximum score of 45 points includes three bonus points for an exceptional Extended Essay and work in TOK.

Course of Study for International Baccalaureate (IB)

The following list of courses represents the best preparation for the IB program leading to all course requirements. Please contact the IB Coordinator, if you have questions regarding the program and its requirements.

GROUP 1 – LANGUAGE A1

Grade 9 – English 9 Honors
Grade 10 – English 10 Honors
Grade 11 – IB English HL, year 1
Grade 12 – IB English HL, year 2

GROUP 2 – LANGUAGE B or ab initio

Grade 9 - Spanish, French or German II Honors or III Honors
Grade 10 - Spanish, French or German III Honors or IV Honors
Grade 11 - Spanish, French, or German IV Honors or AP/IB V
Grade 12 - Spanish, French or German AP/IB V or AP/IB VI

French ab initio (only for students transferring from another language or with no prior language knowledge)
Grade 11 – French I ab initio
Grade 12 – Honors French III

GROUP 3 – INDIVIDUALS AND SOCIETIES

Grade 9 – AP World History
Grade 10 – AP US History

Option 1: History of Europe HL
Grade 11 - AP/IB History of Europe
Grade 12 - AP/IB Government & Comparative Government

Option 2: IB Psychology HL
Grade 11 – AP/IB Psychology & IB Psychology
Grade 12 – IB Psychology HL

Option 3: IB Psychology SL
Grade 11 – AP/IB Psychology & IB Psychology

Option 4: Economics SL
Grade 11 – AP/IB Microeconomics & AP/IB Macroeconomics

Option 5: Business & Management SL
Grade 11 – IB Business & Management

GROUP 4 – EXPERIMENTAL SCIENCES

Grade 9 – Honors Biology
Grade 10 – Honors Chemistry or Chemistry

Option 1: Biology HL
Grade 11 – Honors Anatomy and Physiology
Grade 12 – IB Biology HL

Option 2: Chemistry SL
Grade 11 – AP/IB Chemistry

Option 3: Physics SL
Grade 11 – IB/Honors Physics SL

GROUP 5 - MATHEMATICS

Option 1: Math HL
Grade 9 – Honors Algebra II
Grade 10 – Honors Pre-Calculus
Grade 11 – AP/IB Statistics
Grade 12 – AP/IB Calculus AB or BC

Option 2: Math HL
Grade 9 – Honors Geometry
Grade 10 – Honors Algebra II
Grade 11 – Honors Pre-Calculus + AP/IB Statistics (1 semester)
Grade 12 – AP/IB Calculus BC

Option 3: Math SL
Grade 9 – Geometry/Honors Geometry
Grade 10 – Algebra II/Honors Algebra II
Grade 11 – Pre-Calculus/Honors Pre-Calculus 1 Semester of Statistics
Grade 12 – AP/IB Calculus AB

Option 4: Math Studies SL
Grade 9 - Geometry
Grade 10 – Algebra II
Grade 11 – Pre-Calculus
Grade 12 – IB Math Studies SL

GROUP 6 – FINE ARTS

For Group 6, students choose one of these three options, or a second option from groups 2-4.

Music SL or HL:
Grade 9 and 10 – Band, Choir, or Orchestra
Grade 11 – Band, Choir, or Orchestra and Music Theory
Grade 12 – Band, Choir, or Orchestra and Music History

Theatre Arts SL or HL:
Grade 11 – Theatre Arts I and II
Grade 12 – Theatre Arts II and Tech Theatre

Art SL or HL
Grade 9 or 10 – Any two of the following: Intro to 2D, Drawing I, Intro to 3D Painting, Ceramics, Sculpture, Jewelry
Grade 11 – IB Advanced Art – 2D and 3D
Grade 12 – IB Studio Art

THEORY OF KNOWLEDGE
Grade 11 – Spring Semester
Grade 12 – Fall Semester

- Most courses are one year courses in which grades are issued every nine weeks and semester grades after eighteen weeks (twice per year). **Full year courses may not be dropped at semester except under special circumstances.** Also, full year courses may not be entered the second semester of the school year unless the first semester has already been taken.

Symbol	Explanation
*	Indicates a **one-semester course**. Courses not marked with an asterisk may not be entered the second semester of the school year unless the first semester has already been taken.
**	Indicate a course may be taken for **either one or two semesters**.
#	**Honors Class** - receiving weighted grades of .096
##	**Advanced Placement and IB Class** - receiving weighted grades of .143 Exceptions are noted in the course descriptions
(9, 10, 11, 12)	The number in parenthesis following the class title indicates the grade(s) in which the class may be taken. Specific exceptions may exist because of enrollment, etc.
	All classes receive one credit per semester. Exceptions are noted in the course description.

SCHEDULE CHANGE REQUEST POLICY

1. **Schedule changes may be made through the end of May.** Once the opportunity for schedule changes has passed, changes will only be made due to special circumstances. (Approval of all schedule change requests is subject to consideration involving maximum and minimum class size.) **Except under very special circumstances, any student who withdraws from a class after the second week of school, whether by choice or disciplinary action, will receive a WF as a semester grade for that class. However, with parent written request, students with seven classes may drop one class for a study hall during the first 8 days of the semester provided that class is not an honors, ACP, or AP course.**
2. Questions regarding schedules should be directed to your counselor.

LATE ENROLLMENT

1. Students who have been enrolled in another school corporation will be accepted as transfer students when the family moves into the Fishers High School district. However, a student will not receive credit after the third week of a semester unless he/she has been enrolled in another school corporation during that time. Proof of residency, transcripts, current grade information, birth certificate, withdrawal forms from previous school, and immunization records must be provided before an incoming student will be enrolled.
2. A student enrolling for the second semester will not be scheduled for a full year course unless he/she has taken the first semester.

WITHDRAWAL

A student anticipating withdrawal from school should have a parent/guardian contact the Guidance Department at least one day before the final day of attendance. This allows time to notify teachers so they can release current grades. The student will then carry the official withdrawal form to his new school. All obligations, including book rental and the return of library books and textbooks, should be completed before an official transcript will be sent to the receiving school.

POSTSECONDARY CREDIT

A student may, upon approval of the principal, enroll in courses offered by an eligible postsecondary institution on a full time or part time basis during grade 11, grade 12, or both. If a course has been approved for secondary credit by the school corporation, a student is entitled to credit toward graduation requirements for each course the student successfully completes at that institution.

SIXTH OR SEVENTH-SEMESTER GRADUATION

It is advisable to complete four (4) years of high school. Graduation may be achieved after six or seven semesters if all forty-two (42) required credits have been completed. This must be planned when the classes are being selected for the student's final year of high school. A form requesting sixth or seventh semester graduation must be filed with the student's counselor. This form must be signed by both student and parent in the spring prior to the student's final year. The principal will decide whether a student's request will be honored. A sixth or seventh semester graduate may participate in end of the year senior activities. Participation in graduation exercises requires attendance at the scheduled graduation practice. Seventh semester graduates are not eligible for the top 10% awards, Valedictorian or Salutatorian honors given at the end of the year. Sixth semester graduates will be ranked with their cohort (junior class) and are eligible for top 10% awards but not Valedictorian or Salutatorian.

GRADUATION CEREMONY POLICY

1. To become eligible for graduation a student must meet all requirements set forth by the Hamilton Southeastern School Corporation and the State of Indiana.
2. A student who is under suspension, expulsion, or exclusion at the time of graduation may not participate in commencement ceremonies.
3. Graduating students **must attend commencement practice** in order to participate in the commencement ceremony.

HONORS CLASSES

A student currently in a non-honors or regular class must meet two of the following criteria to move to an honors level class:

1. Earn an average of "B" or better on both semester grades. An "A-" is strongly recommended.
2. Obtain a written recommendation from his/her current teacher.
3. Earn an average of "B" or better on both semester examinations or meet the requirement established by a departmental placement examination. An "A-" is strongly recommended.

Students wishing to accelerate to an honors class from a regular class will be counseled as to the work level and expectations of the honors class. If the teacher does not recommend that a student accelerate to an honors course, parents will be required to sign a waiver regarding the rigors and expectations of the course.

GRADING SCALE

The classroom grading scale used at Fishers High School is shown below:

100	A+
93-99	A
90-92	A-
87-89	B+
83-86	B
80-82	B-
77-79	C+
73-76	C
70-72	C-
67-69	D+
63-66	D
60-62	D-
59 and below	F

Semester grades will be determined by counting each nine weeks grade as 40% and the final exam grade as 20%.

Students who have passed a more difficult course can not go back and take a lower level course.

GRADE POINT AVERAGE

To calculate a cumulative grade point, the semester final grade of each class is assigned a point value as indicated below. This total is then divided by the number of credits attempted, with the results being carried out three decimal places. This calculation is done for each student after every semester. The grading system for Fishers High School is shown below. The points assigned are utilized in computing the grade point average.

A+	=	4.33 points	
A	=	4.00 points	.....Excellent
A-	=	3.67 points	
B+	=	3.33 points	
B	=	3.00 points	.....Above Average
B-	=	2.67 points	
C+	=	2.33 points	
C	=	2.00 points	.....Average
C-	=	1.67 points	
D+	=	1.33 points	
D	=	1.00 points	……Below Average
D-	=	0.67 points	
F	=	0 points	……Failure
WF	=	0 points	……Withdrawal/Failure
I	=	0 points	……Incomplete

FORMULA FOR CALCULATING GPA OF WEIGHTED COURSES

Honors, Advanced Placement (AP), and International Baccalaureate (IB) classes will receive weighted grades. For students who have taken Honors courses, their GPA is adjusted upward using the following formula: .096 multiplied by the number of semester Honors courses passed divided by the number of semesters of high school completed. This quotient is then added to the GPA. All AP and IB classes will carry a weight of .143, unless otherwise noted in the course description, which will be multiplied by the number of semester AP and IB courses passed divided by the number of semesters of high school completed. Both quotients will be added to the GPA.

CUMULATIVE GRADE POINT AVERAGES EXAMPLE

GPA is computed using semester grades.

Algebra	A-	1*3.67 = 3.67
Phys. Ed.	B	1*3.0 = 3.0
World History	B	1*3.0 = 3.0
Biology	B+	1*3.33 = 3.33
Study Hall	0	
English 9 Honors	A	1*4.0 = 4.0
Health	A-	1*3.67 = 3.67
	Total	**GPA = 20.67 / 6 = 3.445**

This would be the GPA with no weighted grades.

This student has one credit, English 9 Honors, which is weighted.	0.096*1 = 0.096
Divide by the number of semesters completed.	0.096/1 = 0.096
Add that to the total unweighted GPA	3.445+0.096 = **3.541 New GPA**

CLASS AUDITS

A student will be permitted to audit a course if he/she has previously taken the course and has earned a grade of D+ or below. The student will only be allowed to audit this course within two semesters of the previously taken course. The audit must be for the exact same course and level previously taken. No additional credit will be earned for the second time the course is taken. The grade the student is assigned when repeating the course will be averaged with the first grade earned and will become part of the student's GPA. Both grades will be posted on the student's transcript. All audits must be approved in writing by the teacher, parent, and counselor. All regular withdrawal rules apply.

UPDATE

Any updates to the Curriculum guide made after printing can be found on the Fishers High School website at www.hse.k12.in.us/fhs.

FISHERS HIGH SCHOOL
FRESHMAN CLASS CHOICES

Business Technology
*Business Foundations
*Preparing for College and Careers
*Computer Applications
*Advanced Computer Applications
*Digital Communication Tools with Keyboarding

English/Language Arts
English 9
English 9 Honors
English 9 Lab
English 9 (ENL)
*Speech
*Journalism
*Photojournalism
ENL Level 1 or 2 – (does not meet an English req)
ENL Level 3 or 4 – (does not meet an English req)

Family And Consumer Science
*Fashion and Textile Foundations
*Interpersonal Relations
*Nutrition and Wellness

Mathematics
Algebra I
Algebra Enrichment
Geometry
Honors Geometry
Honors Algebra II

Multidisciplinary
**Basic Skills Development (IEP)
**Basic Skills Development/Math(IEP)

Performing Arts
*Speech – (does not count as a fine art)
Mass Media TV Prod 1-2 (does not count as a fine art)
*Dance Performance
Beginning Piano and Electronic Keyboarding
*Theatre Arts – Acting I
*Advanced Theatre Arts – Acting II
*Technical Theatre
*Technical Theatre II
Beginning Concert Band – Varsity Band
Beginning Concert Band – Concert Band
Intermediate Concert Band – Symphonic Band
Beginning Orchestra
Intermediate Orchestra
Beginning Chorus Male – Statesmen
Beginning Chorus Female – Sotto Vocé

Science
Earth Space Science
Biology
Honors Biology
Principles of Biomedical Sciences
**Small Animal Care and Management I and II
Fundamental of Agriculture Science and Business
PLTW – Intro to Engineering Design

Social Studies
Geography and History of the World
World History and Civilization
AP World History

Visual Arts
*Introduction to Two Dimensional Art
*Introduction to Three Dimensional Art
*Visual Communication I
*Jewelry
*Ceramics
*Drawing I
*Drawing II

World Languages
French I
French II
French II, Honors
French III
French III, Honors
German I
German II
German II, Honors
German III
German III, Honors
Spanish I
Spanish II
Spanish II, Honors
Spanish III
Spanish III, Honors

Physical Education
*Health
*Physical Education I
*Physical Education II
**Elective PE/Lifetime Fitness
**Elective PE/Coed Rec. Games
**Elective PE/Weight Training
**Elective PE/Adv. Physical Conditioning
*Elective Physical Education/Adv. Water Rescue

Study Halls
**Study Hall

* Notes a one semester course

FISHERS HIGH SCHOOL
SOPHOMORE CLASS CHOICES

Business Technology
*Business Foundations
* Preparing for College and Careers
*Digital Communication Tools with Keyboarding
*Computer Applications
*Advanced Computer Applications
Accounting I
*Entrepreneurship
*Marketing
*Marketing II
*Web Design
*Web Design II

D.A.I.T.A.
*Manufacturing Systems
*Manufacturing Processes
*Construction Systems
*Construction Processes

English/Language Arts
English 10
English 10 Honors
English 10 Lab
English 10 (ENL)
*Speech
**Advanced Speech and Communication – (does not meet Eng requirement)
*Etymology
*Journalism
ENL Level 1 or 2 – (does not meet English req)
ENL Level 3 or 4 – (does not meet English req)
*Photojournalism
**Student Publications/Newspaper Production I
**Student Publications/Newspaper Production II
Student Publications/Yearbook Production I
Student Publications Yearbook Production II

Family And Consumer Science
*Nutrition and Wellness
*Advanced Nutrition and Foods
*Fashion and Textiles Foundations I
*Advanced Textiles and Fashion Foundations
*Interpersonal Relations
**Housing and Interiors/Design Foundations
*Child Development
*Parenting

Multidisciplinary
*Basic Skill Development/Preparing for College & SAT
**Peer Tutoring I/Special Needs
**Basic Skills Development (IEP)
**Basic Skills Development/Math(IEP)

Performing Arts
*Speech – (does not count as a fine art)
**Advanced Speech and Communication – (does not count as a fine art – does not meet English requirement)
Mass Media TV Production 1-2 – (does not count as a fine art)
Mass Media TV Production 3-4 – (does not count as a fine art)
*Dance Performance
*Dance II/Choreography
Beginning Piano and Electronic Keyboarding
Intermediate Piano and Electronic Keyboarding
*Theatre Arts – Acting I
*Advanced Theatre Arts – Acting II
*Advanced Theatre Arts – Acting III
*Advanced Theatre Arts – Acting IV
*Technical Theatre
*Technical Theatre II
*Music Theory and Composition
*AP/IB Music Theory
*Music History and Appreciation
Beginning Concert Band – Varsity Band
Beginning Concert Band – Concert
Intermediate Concert Band – Symphonic Band
Advanced Concert Band – Wind Ensemble
Beginning Orchestra
Intermediate Orchestra
Advanced Orchestra
Beginning Chorus Male – Statesmen
Beginning Chorus Female – Sotto Vocé
Intermediate Chorus – Silver Singers
Intermediate Chorus – Silver Cantus
Advanced Chorus – Silver Streak
Advanced Chorus Female – Silver Sound
Advanced Chorus – Silver Classic

Physical Education
*Health
*Physical Education I
*Physical Education II
**Elective PE/Coed Rec. Games
**Elective PE/Lifetime Fitness
**Elective PE/Weight Training
**Elective PE/Adv. Physical Conditioning
*Elective Physical Education/Adv. Water Rescue
*Advanced Health Education/Sports Medicine I
*Advanced Health Education/Sports Medicine II

Mathematics
Algebra Enrichment
Algebra I
Algebra II
Honors Algebra II
Geometry
Honors Geometry
*Pre-Calculus
*Trigonometry
Honors Pre-Calculus

Science
Earth Space Science
Biology
Honors Biology
Principles of Biomedical Sciences
Human Body Systems
*Advanced Science-Zoology
*Advanced Science-Human Genetics
Human Anatomy-Physiology
Advanced Science-Honors Human Anatomy-Physiology
*Advanced Science-Microbiology
*Advanced Science-Botany
Chemistry
Honors Chemistry
Physics
Honors IB Physics, SL
Integrated Chemistry Physics ICP
**Small Animal Care and Management I and II
Fundamental of Agriculture Science and Business
**Agricultural Mechanization
**Horticulture Science
**Animal Science/Horse Production
Landscape Management
Natural Resource Management
Supervised Agricultural Experience
Animal Science/Livestock Production
PLTW - Introduction to Engineering Design
PLTW - Principles of Engineering

Social Studies
*AP Human Geography
Geography and History of the World
World History and Civilization
*Law Education
AP World History
*Current Issues
AP U.S. History
AP/IB European History
*Topic in History (ENL)

Visual Arts
*Ceramics I
*Ceramics II
*Ceramics III
*Drawing I
*Drawing II
*Drawing III
*Introduction to Two Dimensional Art
*Introduction To Three Dimensional Art
*Visual Communication I
*Visual Communication II
*Painting I
*Painting II
*Sculpture I
*Sculpture II
*Jewelry
*Jewelry II

World Languages
French I
French II
French II, Honors
French III
French III, Honors
French IV
French IV Honors
German I
German II
German II, Honors
German III
German III, Honors
German IV
German IV, Honors
Spanish I
Spanish II
Spanish II, Honors
Spanish III
Spanish III, Honors
Spanish IV
Spanish IV, Honors

Study Hall
**Study Hall

*** Notes a one semester course**

FISHERS HIGH SCHOOL
JUNIOR CLASS CHOICES

Business Technology
*Digital Communication Tools with Keyboarding
Business Mathematics
*Computer Applications
*Advanced Computer Applications
Accounting I
Accounting II
*Business and Law
*Business Management
IB Business and Management
*Entrepreneurship
*Economics and the World of Finance (AOF)
*Banking and Credit (AOF)
*Web Design
*Web Design II
*Marketing
*Marketing II
*Sports, Recreations, and Entertainment Marketing
*Advanced Business College Credit/CITIDOE
*Computer Programming
*Computer Programming II – Intermediate Computer Science
*Finance – Business and Personal Finance
*Finance – Investments and Securities
Interdisciplinary Coop. Education Related Instruction (ICE)
Interdisciplinary Coop. Education Part-time Employment (ICE)

D.A.I.T.A.
*Manufacturing Systems
*Manufacturing Processes
*Construction Systems
*Construction Processes

Multidisciplinary
*Basic Skills Development / Preparing for College and the SAT
**Basic Skills Development/Reading and Writing Strategies (IEP)
**Basic Skills Development (IEP)
**Basic Skills Development/Math(IEP)
*Peer Tutoring I / Special Needs
*Peer Tutoring II / Special Needs
*Theory of Knowledge (spring semester)

Family and Consumer Science
*Nutrition and Wellness
*Advanced Nutrition and Wellness
*Fashion and Textiles Foundations I
*Advanced Textiles and Fashion Foundations
*Interpersonal Relations
**Housing and Interiors / Design Foundations
Housing and Interiors / Design Careers
*Child Development
*Parenting
*Consumer Economics
*Adult Roles and Responsibilities
Education and Early Childhood I, II

Mathematics
Algebra Enrichment
Algebra I
Algebra II
Honors Algebra II
Geometry
*Pre-Calculus
*Trigonometry
Honors Pre-Calculus
*Statistics and Probability
*Discrete Mathematics
Advanced Math: Business Calculus ACP
Math Studies IB, SL
AP Calculus - AB
AP/IB Calculus – BC, HL
AP/IB Statistics

English / Language Arts
English (ENL)
*Speech
**Advanced Speech and Communication – (does not meet English requirement)
English 11
The American Experience/Eng 11
AP Literature and Composition
AP Language and Composition
IB Language HL, year 1
*Composition
*Creative Writing
*Journalism
ENL Level 1 or 2-(does not meet English req)
ENL Level 3 or 4-(does not meet English req)
*Photojournalism
**Student Publications / Newspaper Production I
**Student Publications / Newspaper Production II
**Student Publications / Newspaper Production III
Student Publications / Yearbook Production I
Student Publications / Yearbook Production II
Student Publications / Yearbook Production III
*Classical Literature
*Etymology

Performing Arts

*Speech – (does not count as a fine art)
**Advanced Speech and Communication – (does not count as a fine art – does not meet English requirement)
Mass Media TV Production 1-2 – (does not count as a fine art)
Mass Media TV Production 3-4 – (does not count as a fine art)
Mass Media TV Production 5-6 – (does not count as a fine art)
Mass Media/Advanced TV Production
*Dance Performance
*Dance II/Choreography
Beginning Piano and Electronic Keyboarding
Intermediate Piano and Electronic Keyboarding
*Theatre Arts – Acting I
*Advanced Theatre Arts – Acting II
*Advanced Theatre Arts – Acting III
*Advanced Theatre Arts – Acting IV
*Technical Theatre
*Technical Theatre II
*Music Theory and Composition
*AP/IB Music Theory
*Music History and Appreciation
Beginning Concert Band – Varsity Band
Beginning Concert Band – Concert
Intermediate Concert Band – Symphonic Band
Advanced Concert Band – Wind Ensemble
Beginning Orchestra
Intermediate Orchestra
Advanced Orchestra
Beginning Chorus Male – Statesmen
Beginning Chorus Female – Sotto Vocé
Intermediate Chorus – Silver Singers
Intermediate Chorus – Silver Cantus
Advanced Chorus – Silver Streak
Advanced Chorus Female – Silver Sound
Advanced Chorus – Silver Classic

Physical Education

*Health
*Physical Education I
*Physical Education II
**Elective PE/Coed Rec. Games
**Elective PE/Weight Training
**Elective PE/Adv. Physical Conditioning
**Elective PE/Lifetime Fitness
*Elective Physical Education/Adv. Water Rescue
*Advanced Health Education/Sports Medicine I
*Advanced Health Education/Sports Medicine II

Science

Earth / Space Science
Biology
Honors Biology
Human Body Systems
*Advanced Science – Zoology
*Advanced Science – Human Genetics
Human Anatomy / Physiology
Advanced Science – Honors Anatomy/Physiology
*Advanced Science – Microbiology
*Advanced Science - Botany
*Advanced Science – Astronomy
*Advanced Science – Astronomy II
Advanced Science – ACP Chemistry
Medical Intervention
Biomedical Innovation
AP Biology
AP Environmental Science
Chemistry
Honors Chemistry
Chemistry II
AP/IB Chemistry
Physics
Honors Physics IB, SL
Integrated Chemistry Physics ICP
AP Physics
**Small Animal Care and Management I & II
Fund. of Agriculture Science & Business / Voc.
**Agricultural Mechanization
**Horticulture Science
**Animal Science / Horse Production
Landscape Management
Natural Resource Management
Supervised Agricultural Experience
Advance Life Sciences, Animals
Animal Science / Livestock Production
Advanced Life Science – In Agriculture-Plant and Soil
PLTW - Introduction to Engineering Design
PLTW - Principles of Engineering
PLTW - Digital Electronics
PLTW - Computer Integrated Manufacturing
PLTW - Bio-Technology
PLTW – Civil Engineering and Architecture
PLTW – Aerospace Engineering

Visual Art
*Introduction to Two Dimensional Art
*Introduction to Three Dimensional Art
*Visual Communication I
*Visual Communication II
*Painting I
*Painting II
*Sculpture I
*Sculpture II
*Jewelry I
*Jewelry II
*Ceramics I
*Ceramics II
*Ceramics III
*Drawing I
*Drawing II
*Drawing III
*Media Arts - Photography
AP/IB Art History
*IB Advanced 2D
*IB Advanced 3D
AP Studio Art
IB Visual Arts

Vocational School – J. Everett Light Career Center

Study Halls
**Study Hall

*** Notes a one semester course**

Social Studies
*AP Human Geography
World History and Civilization
AP World History
The American Experience/US History
U.S. History
AP U.S. History
*Law Education
*Current Issues
*Topic in History / Comparative Religions
*Topic in History / Global Studies
*Topic in History / Constitutional Law
*Topic in History (ENL)
*Sociology
*Psychology
*AP/IB Psychology
*IB Psychology, SL
AP/IB European History
*AP/IB Microeconomics
*AP/IB Macroeconomics

World Languages
French I
French I – ab initio
French II
French II, Honors
French III
French III, Honors
French IV
French IV, Honors
French V, AP/IB
German I
German II
German II, Honors
German III
German III, Honors
German IV
German IV, Honors
German V, AP/IB
Spanish I
Spanish II
Spanish II, Honors
Spanish III
Spanish III, Honors
Spanish IV
Spanish IV, Honors
Spanish V
Spanish V, AP/IB
American Sign Language

FISHERS HIGH SCHOOL
SENIOR CLASS CHOICES

Business Technology
*Digital Communication Tools with Keyboarding
Business Mathematics
*Computer Applications
*Advanced Computer Applications
Accounting I
Accounting II
*Business Law
*Business Management
IB Business and Management
*Entrepreneurship
*Web Design
*Web Design II
*Marketing
*Marketing II
Marketing Management Seminar
*Sports, Recreation, and Entertainment Marketing
*Computer Programming
*Computer Programming II – Intermediate Computer Science
AP Computer Science A – Adv. Comp. Science Using Java
*Finance – Business and Personal Finance
*Finance – Investments and Securities
Interdisciplinary Coop. Education Related Instruction (ICE)
Interdisciplinary Coop. Education Part-time Employment (ICE)
*Securities and Insurance (AOF)
*Financial Planning (AOF)
*Finance and International Business (AOF – U of I)
Internship – Summer (AOF)
*Principles of Accounting – (AOF - Anderson Univ.)

Family and Consumer Science
*Nutrition and Wellness
*Advanced Nutrition and Wellness
*Fashion and Textiles Foundations I
*Advanced Textiles and Fashion Foundations
*Interpersonal Relations
*Housing and Interiors / Design Foundations
Housing and Interiors / Design Careers
*Child Development
*Parenting
*Consumer Economics
*Adult Roles and Responsibilities
Education and Early Childhood I, II

English / Language Arts
English (ENL)
*Speech – (does not count as a fine art)
**Advanced Speech and Communication – (does not meet English requirement)
*ACP Speech
**English 12
AP Literature and Composition
AP Language and Composition
IB Language HL, year 2
*Advanced English College Credit Composition
*Advanced English College Credit Literature
*Composition
*Creative Writing
*Literary Movements
*Journalism
ENL Level 1 or 2
ENL Level 3 or 4
*Photojournalism
**Student Publications / Newspaper Production I
**Student Publications / Newspaper Production II
**Student Publications / Newspaper Production III
Student Publications / Yearbook Production I
Student Publications / Yearbook Production II
Student Publications / Yearbook Production III
*Classical Literature

Mathematics
Algebra Enrichment
Algebra I
Algebra II
Geometry
*Pre-Calculus
*Trigonometry
*Statistics and Probability
*Discrete Mathematics
Advanced Math: Business Calculus ACP
Math Studies IB, SL
AP Calculus - AB
AP/IB Calculus – BC, HL
*Multivariable Calculus
*Differential Equations
AP/IB Statistics

Multidisciplinary
****Basic Skills Development (IEP)
**Basic Skills Development/Math(IEP)
*Peer Tutoring I / Special Needs
*Peer Tutoring II / Special Needs
**Cadet Teaching
*Theory of Knowledge (fall semester)

D.A.I.T.A.
*Manufacturing Systems
*Manufacturing Processes
*Construction Systems
*Construction Processes

Performing Arts

*Speech – (does not count as a fine art)
*Advanced Speech and Communication – (does not count as a fine art – does not meet English requirement)
*ACP Speech – (does not count as a fine art)
Mass Media TV Production 1-2 – (does not count as a fine art)
Mass Media TV Production 3-4 – (does not count as a fine art)
Mass Media/Advanced TV Production– (does not count as a fine art)
*Dance Performance
*Dance II/Choreography
Beginning Piano and Electric Keyboard
Intermediate Piano and Electric Keyboard
*Theatre Arts – Acting I
*Advanced Theatre Arts – Acting II
*Advanced Theatre Arts – Acting III
*Advanced Theatre Arts – Acting IV
*Technical Theatre
*Technical Theatre II
*Music Theory and Composition
*AP/IB Music Theory
*Music History and Appreciation
Beginning Concert Band – Varsity Band
Beginning Concert Band – Concert
Intermediate Concert Band – Symphonic Band
Advanced Concert Band – Wind Ensemble
Beginning Orchestra
Intermediate Orchestra
Advanced Orchestra
Beginning Chorus Male – Statesmen
Beginning Chorus Female – Sotto Vocé
Intermediate Chorus – Silver Singers
Intermediate Chorus – Silver Cantus
Advanced Chorus – Silver Streak
Advanced Chorus Female – Silver Sound
Advanced Chorus – Silver Classic

Social Studies

*AP Human Geography
World History and Civilization
AP World History
*Government
*AP/IB Government and Politics
*AP/IB Comparative Government
*AP/IB Government and Politics/We the People
*Economics
*Law Education
*Topic in History / Comparative Religions
*Topic in History / Global Studies
*Topic in History / Constitutional Law
*Topic in History (ENL)
*Sociology
*Psychology
*AP/IB Psychology
*IB Psychology, SL
IB Psychology, HL
AP/IB European History
*AP/IB Microeconomics
*AP/IB Macroeconomics

Science

Biology
Honors Biology
*Advanced Science – Zoology
*Advanced Science – Human Genetics
Human Anatomy / Physiology
Advanced Science – Honors Human Anatomy/Physiology
*Advanced Science – Microbiology
*Advanced Science - Botany
*Advanced Science – Astronomy
*Advanced Science – Astronomy II
Advanced Science – ACP Chemistry
Medical Intervention
Biomedical Innovation
AP Biology
IB Biology HL
AP Environmental Science
Chemistry
Honors Chemistry
Chemistry II
AP/IB Chemistry
Physics
Honors Physics IB, SL
Integrated Chemistry Physics ICP
AP Physics
**Small Animal Care and Management I & II
Fund. of Agriculture Science & Business / Voc. Agribusiness
**Agricultural Mechanization
**Horticulture Science
**Animal Science / Horse Production
Landscape Management
Natural Resource Management
Supervised Agricultural Experience
Advance Life Sciences, Animals
Animal Science / Livestock Production
Advanced Life Science – In Agriculture-Plant and Soil
PLTW - Introduction to Engineering Design
PLTW - Principles of Engineering
PLTW - Digital Electronics
PLTW - Computer Integrated Manufacturing
PLTW - Bio-Technology
PLTW – Civil Engineering and Architecture
PLTW – Aerospace Engineering
PLTW – Engineering Design and Development

Physical Education

*Health
*Physical Education I
*Physical Education II
**Elective PE/Coed Rec. Games
**Elective PE/Weight Training
**Elective PE/Adv. Physical Conditioning
**Elective PE/Lifetime Fitness
*Elective Physical Education/Adv. Water Rescue
*Advanced Health Education/Sports Medicine I
*Advanced Health Education/Sports Medicine II

Visual Art
*Introduction to Two Dimensional Art
*Introduction to Three Dimensional Art
*Visual Communication I
*Visual Communication II
*Painting I
*Painting II
*Sculpture I
*Sculpture II
*Jewelry I
*Jewelry II
*Ceramics I
*Ceramics II
*Ceramics III
*Drawing I
*Drawing II
*Drawing III
*Media Arts - Photography
AP/IB Art History
AP Studio Art
IB Visual Art

Study Halls
**Study Hall

Vocational School – J. Everett Light Career Center

World Languages
French I
French II
French II, Honors
French III
French III, Honors
French IV
French IV, Honors
French V, AP/IB
French VI, IB
German I
German II
German II, Honors
German III
German III, Honors
German IV
German IV, Honors
German V, AP/IB
German VI, IB
Spanish I
Spanish II
Spanish II, Honors
Spanish III
Spanish III, Honors
Spanish IV
Spanish IV, Honors
Spanish V
Spanish V, AP/IB
Spanish VI, IB
American Sign Language
American Sign Language II

* Notes a one semester course

DUAL CREDIT COURSE OPPORTUNITIES

Fishers High School offers many opportunities for students to earn college credit while in high school. Some of the courses are high school courses for which some universities will award college credit while others are college courses for which students are also receiving high school credit. Each of the universities has specific requirements for admission and/or receiving the college credit. These courses will count toward the Academic Honors Diploma requirement for dual credit hours. For more detailed information please see the entire course description in the guide or contact your guidance counselor.

Vincennes University

High School Course	College Course	Credits
PLTW -Digital Electronics	ELEC 130 DRAF 140 Or DRAF 101 Or ARCH 221	3 credits 3 credits 3 credits
PLTW - Computer Integrated Manufacturing	DRAF 140 or DRAF 101	3 credits
PLTW - Civil Engineering & Architecture	SURV 181	3 credits

Purdue University

High School Course	College Course	Credits
Advanced Life Science, Animals	ANSC 10200	3 credits 3 credits 3 credits
Advanced Life Science, Plant and Soil	BTNY 21000	3 credits

IUPUI

High School Course	College Course	Credits
Advanced Business, College Credit/CITIDOE	CIT 112 CIT 212 CIT 214 CIT 213 CIT 215	3 credits 3 credits 3 credits 3 credits 3 credits
Principles of Biomedical Sciences	TBA	3 credits
Human Body Systems	TBA	3 credits
Medical Interventions	TBA	3 credits
Biomedical Innovations	TBA	3 credits

Indiana University – Advanced College Project

High School Course	College Course	Credits
Advanced English, College Credit, Composition	W131	3 credits
Advanced English, College Credit, Literary Interpretation	L202	3 credits
Advanced English, College Credit, Public Speaking	S121	3 credits
Advanced Placement Chemistry	C105/C125	5 credits
Advanced Math, College Credit, Calculus	M119	3 credits
Calculus, AP - AB	M211	4 credits
Calculus, AP - BC	M211 and M212	8 credits

Anderson University

Course	College Course	Credits
Advanced Business, College Credit, Accounting (AoF)	ACCT 2010	3 credits

University of Indianapolis

High School Course	College Course	Credits
Advanced Business, College Credit, Finance and International Business (AoF)	BADM 220	3 credits

Ivy Tech

High School Course	College Course	Credits
Education and Early Childhood I, II	ECE101 HSH	3 credits

Ball State University

High School Course	College Course	Credits
Advanced Mathematics, College Credit – Multivariable Calculus	MATHS 267	4
Advanced Mathematics, College Credit – Differential Equations	MATHS 374	3
Advanced Business, College Credit – Intro to Business	BUSAD 101	3
Advanced Business, College Credit – Management Principles	MGT 200	3
Advanced CTE, College Credit – Media and American Society	JOURN 101	3
Advanced Social Sciences, College Credit – Education in a Democratic Society	EDEL 100	3
Advanced Social Sciences, College Credit – Basic Concepts of Secondary Education	EDSEC 150	3
Advanced Fine Arts, College Credit – Intro to Music	MUHIS 100	3
Advanced Fine Arts, College Credit – Survey of the Music Industry	MUMET 100	3
Advanced Social Sciences, College Credit – Intro To American Criminal Justice System	CJC 101	3
Advanced Social Sciences, College Credit – Intro to Criminology	CJC 102	3
Advanced Social Sciences, College Credit – Intro to Policing	CJC 230	3

J. Everett Light Dual Credit Opportunities

PROGRAM	DUAL CREDIT AGREEMENTS	COURSE NUMBER	CREDITS
Animation / Film Production	Vincennes University	MCOM 102 MCOM 140	3 credits 3 credits
Automotive Collision - 1st Year	Vincennes University	BODY 100	9 credits
Automotive Collision - 2nd Year	Vincennes University	BODY 150	9 credits
Automotive Service - 2nd Year	Ivy Tech	AUTC 109 AUTC 127	3 credits 3 credits
Business Technology	Ivy Tech	OFAD 103 CINS 101	3 credits 3 credits
Computer Repair	Vincennes University	CMET 240	6 credits
Cosmetology - 1st Year	Vincennes University	COSM 100 COSM 150	7 credits 7 credits
Cosmetology - 2nd Year	Vincennes University	COSM 200 COSM 250	7 credits 9 credits
Culinary Arts	Ivy Tech	HOSP 101 HOSP 114	3 credits 3 credits
Dental Assisting – 2nd Year	Ivy Tech	HLHS 101	3 credits
Digital Media Arts	Ivy Tech	VISC 105	3 credits
Digital Media Arts	Vincennes University	MCOM 102 MCOM 140	3 credits 3 credits
Early Childhood Education – 1st Year	Ivy Tech	ECED 101	3 credits
Early Childhood Education – 2nd Year	Ivy Tech	ECED 100	3 credits
Emergency Medical Technician	Ivy Tech	PARM 102	7.5 credits
Emergency Medical Technician	Vincennes University	EMTB 212	6 credits
Firefighting	Ivy Tech	FIRE 100 FIRE 101 FIRE 103	3 credits 3 credits 3 credits
Firefighting	Vincennes University	FIRE 100 FIRE 204 FIRE 204L	6 credits 2 credits 1 credit
Health Care Careers	Ivy Tech	HLHS 101 HLHS 107	3 credits 5 credits
Law Enforcement – 1st Year	Vincennes University	LAWE 100 LAWE 106	3 credits 3 credits
Law Enforcement – 2nd Year	Vincennes University	LAWE 150 LAWE 160	3 credits 3 credits
Medical Assisting	Ivy Tech	HLHS 100	3 credits
Music Sound Production	Vincennes University	MCOM 102 MDIA 120	3 credits 3 credits
Veterinary Assisting	Purdue University	ANSC 102	3 credits
Visual Design / Advertising	Ivy Tech	VISC 102 VISC 115	3 credits 3 credits
Web & Software Programming	Vincennes University	COMP 176	3 credits
Welding – 1st Year	Ivy Tech	WELD 108	3 credits
Welding – 2nd Year	Ivy Tech	WELD 207	3 credits
Welding – 2nd Year	Ivy Tech	WELD 208	3 credits

Ball State University – College Transition Program

2544 * ## MULTI-VARIABLE CALCULUS AND ITS APPLICATIONS (12) Topics include three-dimensional vector calculus, Gauss's theorem, Green's theorem, and Stoke's theorem. This course includes the use of graphing calculators and computer software. This one semester course is offered as distance learning through Ball State University. Students will participate during the school day. **The course requires special registration through Guidance and the Math Department Chairperson. Requirement – Successful completion of AP Calculus BC**

2544 * ## DIFFERENTIAL EQUATIONS (12) Introduction to nth-order ordinary differential equations, equations of order one, elementary applications, linear equations with constant coefficients, nonhomogeneous equations, undetermined coefficients, variation of parameters, linear systems of equations, and the Laplace transform. This course includes the use of standard computer software. This one semester course is offered as distance learning through Ball State University. Students will participate during the school day. **The course requires special registration through Guidance and the Math Department Chairperson. Requirement – Successful completion of Multi-variable Calculus**

4564 *# Advanced Business, College Credit – Intro to Business – Ball State University - BUSAD 101 (11, 12). This course emphasizes the role of business in our society through both the external and internal environment of the business enterprise. You will assess the contribution of the social and behavioral sciences in the decision-making process. This is a 3 credit hour course which is required for an Associates Degree in Business Information Technology and Business Administration-Management or it can be used as General Elective for other BSU majors. **Requirement – Successful completion of Computer Applications and acceptance into the BSU College Transition Program,** This course may be offered online or live depending on the number of students enrolled. **Students are responsible for tuition, approximately $350, and the cost of college books and fees.**

4564 *# Advanced Business, College Credit – Management Principles – Ball State University - MGT 200 (11, 12) Management Principles is an introduction to the basic concepts and principles of management. Students will discuss organizational structures, planning and decision-making, communications, human resource issues and policies, motivating and leading employees, and organizational control process. This is a 3 credit hour course which is required for an Associates Degree in Business Information Technology and Business Administration-Management or it can be used as a General Elective for other BSU majors**. Requirement – Successful completion of Computer Applications and acceptance into the BSU College Transition Program,** This course may be offered online or live depending on the number of students enrolled. **Students are responsible for tuition, approximately $350, and the cost of college books and fees.**

5238 *# Advanced CTE, College Credit - Media and American Society – Ball State University – JOURN 101 (11, 12) This course is the study of the structures and functions of media communications and how they inform, persuade and entertain audiences. It is an overview of the evolving relationships among media industries and American society. The focus is on advertising, public relations and news organizations. This is a 3 credit hour course which meets one of the requirements for a major. **Requirement – Successful completion of Journalism, Photojournalism, or Mass Communications and acceptance into the BSU College Transition Program,** This course may be offered online or live depending on the number of students enrolled. **Students are responsible for tuition, approximately $350, and the cost of college books and fees.**

1574 *# Advanced Social Sciences, College Credit - Education in a Democratic Society – Ball State University – EDEL 100 (11, 12) This course will serve as an initial investigation into teaching and the teaching profession at the elementary level. Students will participate in civic activities as a way of coming to understand children and various conditions that influence the teaching profession. Fifty hours of civic engagement will be required. Students enrolled in cadet teaching or peer tutoring may satisfy 25 of those hours through those courses. This is a 3 credit hour course which meets one of the requirements for a Major in Elementary Education at BSU. **Requirement – Acceptance into the BSU College Transition Program,** This course will be offered at the BSU Saxony Campus located off of Olio Road. **Students are responsible for tuition, approximately $350, and the cost of college books and fees.**

1574 *# Advanced Social Sciences, College Credit - Basic Concepts of Secondary Education – Ball State University – EDSEC 150 (11, 12) This course is designed to help students make valid decisions about preparing for teaching careers at the secondary level. Professionalism, job requirements, employment opportunities, and secondary school curricula, and the role of secondary education within the educational process are discussed. This is a 3 credit hour course which meets one of the requirements for a Major in Secondary Education at BSU. **Requirement – Acceptance into the BSU College Transition Program,** This course will be offered at the BSU Saxony Campus located off of Olio Road. **Students are responsible for tuition, approximately $350, and the cost of college books and fees.**

1574 *# Advanced Social Sciences, College Credit – Intro to American Criminal Justice System - Ball State University – CJH 101 (11, 12) This course is an overview and analysis of the American criminal justice system. This is a 3 credit hour course which is required for an Associates Degree in Criminal Justice and Criminology or it can be used as an elective for other BSU majors. **Requirement – Acceptance into the BSU College Transition Program,** This course may be offered online or live depending on the number of students enrolled. **Students are responsible for tuition, approximately $350, and the cost of college books and fees.**

1574 *# Advanced Social Sciences, College Credit – Intro to Criminology – Ball State University – CJC102 (11, 12) This course examines the legal definitions of criminal and delinquent behavior; typologies of crime and criminals; trends in reported distribution of crime and delinquency within the population; and theoretical explanations. This is a 3 credit hour course which is required for an Associates Degree in Criminal Justice and Criminology or it can be used as an elective for other BSU majors. **Requirement – Acceptance into the BSU College Transition Program**, This course may be offered online or live depending on the number of students enrolled. **Students are responsible for tuition, approximately $350, and the cost of college books and fees.**

1574 *# Advanced Social Sciences, College Credit – Intro to Policing – Ball State University – CJC230 (11, 12) This course is an examination and analysis of the development of the police in the United States in the past, present, and future. It emphasizes institutional context of police activity, bureaucratization of the police, professionalization, role of the police and police/community change. Lectures, readings and discussions will focus on the theories and research of those factors affecting law enforcement organizations as well as the role of the police in society. This is a 3 credit hour course which is required for an Associates Degree in Criminal Justice and Criminology or it can be used as an elective for other BSU majors. **Requirement – Acceptance into the BSU College Transition Program,** This course may be offered online or live depending on the number of students enrolled. **Students are responsible for tuition, approximately $350, and the cost of college books and fees.**

4260 *# Advanced Fine Arts, College Credit – Music Appreciation – Ball State University – MUHIS100 (11, 12) A University Core Curriculum course that, through a survey of musical forms and compositions from early through contemporary times and historical and social elements that helped to shape them, offers an introduction to the understanding and appreciation of the broad range of musical creativity. This course is only open to students not majoring in music. This is a 3 credit hour course which meets the 3 hour fine arts requirement at BSU and one credit of the high school Academic Honors Diploma fine arts requirement. **Requirement – Acceptance into the BSU College Transition Program,** This course may be offered online or live depending on the number of students enrolled. **Students are responsible for tuition, approximately $350, and the cost of college books and fees.**

4260 *# Advanced Fine Arts, College Credit – Survey of the Music Industry – Ball State University – MUMET100 (11, 12) Survey of the Music Industry will explore practically every business and career opportunity available within the entertainment industry, specific to music. The goal of this course is to give each student a broad knowledge base of the industry, and to create insight and direction as to what careers and opportunities are available in and inexhaustible and ever growing music industry. To quote the text, *A Music Business Primer*; "Entertainment is fast becoming the driving force of the new world economy." This is a 3 credit hour course which can be used as general elective credits at BSU. This course satisfies one credit of the high school Academic Honors Diploma fine arts requirement. **Requirement – Acceptance into the BSU College Transition Program,** This course will be offered at the BSU Saxony Campus located off of Olio Road. **Students are responsible for tuition, approximately $350, and the cost of college books and fees.**

BUSINESS TECHNOLOGY

The Business Technology Department offers a wide range of classes to meet the needs of all students whether they are college-bound or planning to enter the work force upon graduation. The FHS Business Department designs courses with rigor and relevance. They provide students seamless transition to higher education business programs and provide measurable job skills imperative in the world of work.

Recommended course sequences are linked to specific areas of interest. The following descriptions outline suggested courses in four distinct topics of study in the Business Technology Department:

1. Students interested in emphasizing *General Business* should consider courses in Digital Tools, Computer Applications, Advanced Computer Applications, Marketing I, Business Management, Accounting I, Business Law, and Entrepreneurship.

2. Students who wish to study *Marketing* may focus on Digital Tools, Computer Applications, Advanced Computer Applications, Marketing I and II, Sports and Entertainment Marketing, Accounting I, and Business Management.

3. Students with an interest in *Computer Technology* can develop their skills in Digital Tools, Computer Applications, Advanced Computer Applications, Web Design I and II, Computer Programming I and II, and AP Computer Science.

4. Students focused on *Finance* may want to pursue courses in Digital Tools, Computer Applications, Advanced Computer Applications, Accounting I and II, Finance: Personal Finance, and Finance: Investment and Securities.

5394 * PREPARING FOR COLLEGE AND CAREERS (9, 10) This course will provide students opportunities to learn about themselves and about various traditional and non-traditional occupations and careers. It will review the 16 national career clusters. Students will gain an awareness of the type of occupational preparation or training needed for various occupations and careers. The course may also develop the student's employment skills, understanding of the economic process, and decision-making and planning skills. Opportunities will be provided for students to make job observations through field trips, mock interviews, and guest speakers. Resume development and career related testing may be provided. The course will be both informative and exploratory in nature.

4526 * DIGITAL COMMUNICATION TOOLS (w/Keyboarding) (9, 10, 11, 12) Digital Communication Tools ***with beginning keyboarding*** is designed to introduce students to both Computer Keyboarding as well as Digital Communication Tools. Students will focus on skill mastery related to the operation of high-tech hardware and software including touch keyboarding, speech recognition, and handwriting recognition. Students will also practice using a PDA (personal digital assistant), Microsoft One Note, and a variety of Microsoft Word applications as they learn to format personal business letters, business letters, memos, reports, and tables.

4518 * BUSINESS FOUNDATIONS (9, 10) This course is designed to provide the necessary fundamentals to build students' competencies in these areas: career selection, career research, personal financial planning, financial services, budgeting, investments, and insurance protection; credit selection and programs; consumer purchases, consumer rights and responsibilities, and consumer assistance and decision-making skills. Students will apply this knowledge as consumers, producers, entrepreneurs, and economic citizens. The application and importance of business etiquette and ethics will be introduced. Students will also learn how the market system and various institutions, which are part of that system, have an impact on consumer actions.

4530 * COMPUTER APPLICATIONS (9, 10, 11, 12) The student will learn fundamental computer concepts plus the use of the microcomputer for applications. Word Processing, spreadsheet, database, and presentation software will be utilized. The software currently being utilized includes the Microsoft Office XP version of Word, Excel, Access and PowerPoint. A unit on employment skills will also be included. This course will prepare students to take the Microsoft office user specialist (MOUS) exam. **Requirement – Computer Keyboarding or Digital Communication Tools, with a "C" average recommended and completion of or concurrent enrollment in Algebra I**

4528 * COMPUTER APPLICATIONS ADVANCED (9, 10, 11, 12) Presentation and desktop publishing are included in this course. Power Point and Publisher are the software programs currently being utilized. Students will have the opportunity to use a digital camera and a scanner to complete projects. Students will also learn Internet search strategies and will use the Internet to complete projects. **Requirement - Business Computer Applications, with a "C" average recommended**

4574 * WEB DESIGN (10, 11, 12) In this course students will learn HTML (hypertext markup language) and will use HTML to create web pages. As students learn to create web pages they will be exposed to common web page formats and functions. Students will also be introduced to the principles of good design. **Requirement - Computer Applications, with a "C" average recommended**

4574 * WEB DESIGN II (10, 11, 12) This course will be a continuation of Web Design I. Students will learn advanced features of Dreamweaver. They will also be introduced to Flash and Fireworks. Students will plan and design a business web site that will include documents created in Word, Excel, PowerPoint, Flash, and Fireworks. **Requirement – Web Design I**

4524 ACCOUNTING I (10, 11, 12) The course introduces principles and procedures for proprietorships, partnerships, and corporations using double entry accounting with emphasis on accounting principles as they relate to both manual and automated financial systems. **Requirement – Computer Applications, with a "C" average recommended**

4522 ACCOUNTING II (11, 12) This is a full year course that is specifically vocational and career oriented. It is designed to provide the student with further skills in applying the principles learned in the first year of accounting and to give the student a broader concept of the accounting function. The student is introduced to a variety of methods used in business situations so that he or she is better able to assume a more responsible position in business. The student is also provided with a better background for further study at the college level in the area of accounting, marketing, management, or some other phase of business administration. **Requirement - Accounting I with a "C" average recommended**

4560 * BUSINESS AND PERSONAL LAW (11, 12) Business law and personal law are particularly well-matched themes for an introductory law course. While the business curriculum rightfully stresses business law, personal law provides familiar points of departure. At the heart of both business and personal law is the contract. Contract law establishes the ground rules that ordinary people can use to define their private rights and duties. In addition, business and personal law students require an introduction to criminal, civil and procedural law. Core business law topics include sales, credit, negotiable instruments, agency and employment, and business associations. Core personal law topics include juvenile justice, consumer law, family law, housing law, and individual rights and liberty.

4562 * BUSINESS MANAGEMENT (11, 12) Business Management is designed to give students insight regarding the characteristics, organization and operation of different types of businesses. Contemporary and ethical issues are introduced, as are factors that affect society. Students will study the environment of business, business ownership, production, finance, information systems, personnel, planning, government regulations, and taxation. Students are introduced to management issues in a variety of environments.

4582 ## IB BUSINESS AND MANAGEMENT (11, 12) IB Business and Management is a rigorous two-semester course that critically studies the ways in which individuals and groups interact in a dynamic business environment. It is designed to give students an understanding of business principles, practices, and skills. Emphasis is also placed on understanding technical innovation and day-to-day business functions of marketing, human resource management, and finance. In today's global business market, the ideals of international cooperation and responsible citizenship are at the heart of business management. This course is strongly recommended for any student planning to major in Business in college. **Summer reading and associated assignments are required and can be found on the FHS website near the middle of May.**
Requirement – Grade of B or higher in English 10 or Honors English 10 recommended.

4512 BUSINESS MATHEMATICS (11, 12) Business Math is a business course designed to equip students with life application mathematics by developing and practicing essential skills. A solid understanding of core math operations (addition, subtraction, multiplication, division, and basic fractions), personal banking and financial budgeting (checkbooks, household budgets), math for public settings (i.e. percentages, estimation, rounding used in restaurants, grocery stores, personal purchases), and use of math tools such as calculators and rulers provides the necessary foundation for students as they enter adulthood and prepare for employment. Instructional strategies should include simulations, guest speakers, Internet research and business experiences. **Requirement –Successful completion of Algebra**

4520 * MARKETING (10, 11, 12) Marketing is a one semester course, which will provide a basic introduction to the scope and importance of marketing in the global economy. Focus topics for the class will include economics, human resources, and marketing and business foundations. Emphasis will be placed on oral and written communications, mathematical applications, problem solving, and critical thinking skills as they relate to selling, promotion, pricing, purchasing, marketing information management, product/service planning, distribution, financing, and risk management.

4520 * MARKETING II (10, 11, 12) Marketing II offers students an opportunity to take a second semester of Marketing. This course builds upon the foundations of Marketing I and allows students to further their study of marketing and apply the previously learned concepts. Instructional strategies may include school-based enterprise, computer-technology applications, real and/or simulated occupational experiences, or projects in the marketing functions such as those available through the DECA program or co-curricular activities. **Requirement – Marketing I**

5984 * SPORTS, RECREATION, AND ENTERTAINMENT MARKETING (11, 12) This course provides students with the opportunity to apply the marketing principles, as learned in marketing foundations, in the fields of sports, recreation, and entertainment. We will study professional sports teams, entertainment events, and theme parks, with emphasis placed upon how to market, sell, promote, and control such events. The course contains significant hands-on learning through student-developed activities and projects such as developing plans to market school events. The course will also address management issues as they relate to parks, professional sports, and events. Students should plan to be available to attend several school events throughout the semester. **Requirement – Marketing I**

5988 MARKETING MANAGEMENT SEMINAR (12) Marketing Management Seminar is a two-semester marketing course that provides an opportunity for college-bound students to study marketing outside the traditional marketing education course offerings. Emphasis is placed on the functions of marketing. Additional instructional areas include leadership, management skills, and risk management. Instructional strategies include a school-based enterprise, computer/technology applications, real and/or simulated marketing experiences, and projects in the marketing functions such as those available through the DECA program of co-curricular activities. **Requirement - Marketing I or Entrepreneurship and at least 1 specialized course: Marketing II, Entrepreneurship, Business Management, Web Design I, or Business and Personal Law**.

4564 * ADVANCED BUSINESS COLLEGE CREDIT/CITIDOE (11, 12) CITIDOE is an educational partnership between the Computer and Information Technology (CIT) Department at IUPUI and the Indiana Department of Education (IDOE) and its Business, Marketing, and Information Technology Education (BMIT) programs. Students have the opportunity to take college-level CIT courses online. The courses are taught by college professors. High school teachers facilitate and monitor student progress. Students who choose to take a college level course receive a 50% tuition discount. Students can take various courses dependent on their previous high school course work and career interests. Possible course are: CIT112 – Information Technology Fundamentals, CIT123 – Internet Skills, CIT214 – Using a Database Management System, CIT213 – Web Based analysis and Design, and CIT215 – Web Programming. **Requirement – Department Head Approval**

4566 * ENTREPRENEURSHIP (10, 11, 12) This is a one semester course designed for students who would like to create their own business. This course will start from the premise of creating and owning your own enterprise. A premium will be placed on creativity, curiosity, independence, and initiative. The course stresses starting a business from scratch, problem solving and decision-making, formulating procedures and systems, and charting one's own course. Students will develop a written business plan for a business of their choice.

4534 * COMPUTER PROGRAMMING – With Visual Basic (11, 12) This one semester course will introduce the science of programming computers. Students will be introduced to sequence, selection, and repetition structures. Coding and user interface development are emphasized throughout the course. The five steps of Object Oriented Design will be followed. They are Plan, Build, Code, Test, and Document. **Requirement – Digital Communication Tools or Keyboarding and Algebra I, Recommendation – A "C" average in all math courses including Geometry and a "C" average in Computer Applications**

4534 * COMPUTER PROGRAMMING II – With Visual C++ (11, 12) This one semester course will prepare the student for AP Computer Science. It includes sequential and random access files as well as an introduction to database access and variable arrays. Hardware issues and career information will also be covered. An introduction to searching and sorting will also be included. **Requirement – Computer Programming with a "B" recommended or permission of the instructor**

4570 ## AP COMPUTER SCIENCE A – ADVANCED COMPUTER SCIENCE USING JAVA (12) AP Computer Science is the development of computer programs to solve problems. This leads to other computer science topics including development and analysis of algorithms, development and use of data structures, and the study of standard algorithms and typical applications. In addition, an understanding of the basic hardware and software components of computer systems and the responsible use of these systems are integral parts of the course. Students will prepare to take the AP Computer Science test in May. **Recommendation – A "B" average in Algebra II and Computer Programming II**

5258 * FINANCE: BUSINESS AND PERSONAL FINANCE (11, 12) – This course is an introduction to the concepts of business and personal finance. It provides a complete framework for understanding the process of accumulating and protecting personal wealth, emphasizing the analysis of risk/return relationships as well as learning to understand investment alternatives and how strategies develop as life situations mature. **Requirement – Computer Applications**

5258 * FINANCE: INVESTMENTS AND SECURITIES (11, 12) - *Finance: Investments and Securities* will be extensive in dealing with a wide range of topics: Goals and Functions of Financial Management, Financial Analysis and Planning, Working Capital Management, The Capital Budgeting Process, Long-Term Financing, and the basics of Corporate Finance. The treatment of these topics will be both descriptive and analytical; there is large vocabulary to be learned and a number of concepts and problems to be mastered**.** Students enrolling in this course are also encouraged to complete Accounting II. **Requirement – Finance: Business and Personal Finance with a "C" or better recommended**
***DECA membership is strongly encouraged for Marketing students and majors**

INTERDISCIPLINARY COOPERATIVE EDUCATION (ICE)

The primary purpose of a cooperative education program is to prepare a student for entry-level employment. However, the program could also serve as a means for a student to explore entry level work in a future career. The program combines classroom instruction with on-the-job learning experiences consistent with the student's occupational objectives. The program would have a class-related period and a regularly scheduled time that the student would be released from school two periods to be employed throughout the school year. Students enrolled in this program must make a commitment for the entire year.

SELECTION CRITERIA: Each student should have a stated career objective in an occupation, be responsible for his own transportation to and from job, should be physically, emotionally, mentally, and morally capable of performing his career objective, be an incoming junior or senior, should have an acceptable attendance record, have parental consent, be willing to accept responsibility and follow instructions, and should have the ability to work with others. Each student will need to fill out an application, provide references, and will then be interviewed by the Coordinator, Principal, and possible employer. The Coordinator will need to have a conference with the student and his parent(s).

5902 INTERDISCIPLINARY COOPERATIVE EDUCATION RELATED INSTRUCTION (11, 12) Workplace competencies and foundation skills such as orientation to a new job, interpersonal relationships, communication skills, evaluations, self-management, decision-making, critical thinking, and responsibility are covered and related to real-world working situations. **(1 period, 1 credit per semester) Requirement - Completion of an application and an interview**

5900 INTERDISCIPLINARY COOPERATIVE EDUCATION PART-TIME EMPLOYMENT (11, 12) This course enables students to develop and refine occupational competencies needed to acquire and succeed in a job, adjust to the employment, and advance in an occupation of their choice. On-the-job instruction is supervised by the employer. They work closely with the teacher-coordinator in planning student learning experiences, which are compatible with student and employer goals. Students are to work a minimum of 3 hours per day and 15 hours per week. The student would be released from school for 2 periods per day **(2 periods, 2 credits per semester) Requirement - Completion of an application and interview**

FHS Business/CTE Department Vision: The Business Technology Department offers a wide range of classes to meet the needs of all students whether they are college-bound or plan to enter the work force upon graduation. The FHS Business Department designs courses with rigor and relevance. They provide business students seamless transition to higher education programs and provide measurable job skills imperative in the world of work.

Recommended course sequences are linked to specific areas of interest.

Fishers High School Business/CTE Programs

	Business, Management, and Administration		Marketing, Sales and Service		Information Technology		Finance	
	1	2	1	2	1	2	1	2
Freshman	Digital Tools or Computer Apps	Business Founds and/or Career Planning	Digital Tools or Computer Apps	Business Founds and/or Career Planning	Digital Tools or Computer Apps	Business Founds and/or Adv Comp Apps	Digital Tools or Computer Apps	Business Founds and/or Adv Comp Apps
Sophomore	Marketing 1*	Marketing 2 * and/or Adv Comp. Apps	Marketing 1* and/or Business Mgt	Marketing 2* and/or Business Law	Web 1	Web 2 and/or Adv Comp Apps	Accounting 1 and/or Business Mgt	Accounting 1 and/or Business Law
Junior	Accounting 1 and/or Business Mgt and/or Personal Finance	Accounting 1 and/or Business Law and/or Entrepreneurship	SREM Marketing *	Adv Computer Apps	Comp Prog 1	Comp Prog 2 and/or Web Prog	Accounting 2	Accounting 2 and/or Adv Comp Apps
Senior	Personal Finance and/or IB Business & Mgt and/or Accounting 2	Invest. & Securities and/or IB Business & Mgt and/or Accounting 2 and/or Entrepreneurship	Mkt Mgt Seminar * and/or Accounting 1 and/or Entrepreneurship and/or IB Business & Mgt and/or Accounting 2	Mkt Mgt Seminar * and/or Accounting 1 and/or Web 1 and/or IB Business & Mgt and/or Accounting 2	AP Comp Sci A	AP Comp Sci A	Personal Finance and/or IB Business & Mgt	Invest. & Securities and/or IB Business & Mgt

* DECA membership is strongly encouraged for Marketing students and majors

ACADEMY OF FINANCE
OFFERED AT HAMILTON SOUTHEASTERN HS ONLY

To apply for this program and for more information go to
http://www.hse.k12.in.us/HHS/academics/AOF/index.aspx

Students in this program will be required to have a study hall/travel period

4558 * ECONOMICS AND THE WORLD OF FINANCE (11) This is a one semester course in macro and microeconomics that provides an understanding of how our market economy functions in a global setting. It provides students with a survey of economic concepts including all of the twenty-two basic principles recommended by the National Council of Economic Education. In addition, a unit on capital markets acquaints students with the role that markets and securities play in our overall economic framework. **Requirement – Acceptance into the Academy of Finance**

5258 * BANKING AND CREDIT (11) This one semester course presents a survey of the principles and practices of banking and credit in the United States. The students learn about the major functions of banks and other depository institutions, in-house operations and procedures, central banking through the Federal Reserve System and modern trends in the banking industry. The credit component provides an overview of credit functions and operations including credit risk evaluation, loan creation and debt collection. **Requirement – Acceptance into the Academy of Finance**

5258 * SECURITIES AND INSURANCE (12) This is a one semester course that will focus on securities and insurance. Through a study of the structure of brokerage firms, the trading process, credit and margin practices, automated processes, and government regulation, students gain an understanding of how a securities firm services its customers and plays an important role in our economy. Students are given the opportunity to relate their knowledge of economics, accounting, and data processing to the operations areas of various sectors of the securities industry. Students will also be introduced to various elements of the insurance industry, including insurance needs and products for businesses and individuals. Students will learn about insurance sales, rate-setting, insurance and financial planning, insurance regulations, and careers in the industry. **Requirement – Acceptance into the Academy of Finance**

4546 * FINANCIAL PLANNING (12) This is a one semester course that introduces students to the financial planning process and the components of a comprehensive financial plan. Students learn how to prepare a financial plan that includes saving, investing, borrowing, risk management (insurance), and retirement and estate planning. **Requirement – Acceptance into the Academy of Finance**

4564 #* ADVANCED BUSINESS/COLLEGE CREDIT - FINANCE AND INTERNATIONAL BUSINESS, University of Indianapolis School of Business (12) This course will be divided into two parts. The first section, comprising approximately two thirds of the semester will cover corporate finance. The second will deal with international business. All managers are required to possess a basic understanding of financial concepts. This course is designed as an introduction to finance via concepts, basic calculations, and capital markets. The basic concepts of the time-value of money, rates of return, and valuation are covered. Students will learn how capital markets function, what different securities exist, and how to manage cash flow. Besides providing basic math skills, this course should provide students with an excellent introduction to financial management concepts. An overview of current international business theories, patterns, and management concepts is provided. Emphasis is placed on understanding the key factors that influence multinational operations and the variety of ways international business may evolve in the future. Financial aspects of international business are central to this course, as well as international strategic planning. **Requirement – Acceptance into the Academy of Finance - Earn 3 college credits**

4564 #* ADVANCED BUSINESS/COLLEGE CREDIT - PRINCIPLES OF ACCOUNTING, Anderson University (12) Students will learn to understand the basic principles, elements and concepts of accounting; use proper methods to record and communicate useful financial data to others; be able to perform a complete accounting cycle from source documents to post closing trial balance for a business; and understand the role of accounting in making informed decisions, in providing an overview for non-accounting majors and in building a foundation for further study for accounting majors through management planning, performing, and evaluating cycles. **Requirement – Acceptance into the Academy of Finance – Earn 3 college credits**

5256 * INTERNSHIP (12) Academy of Finance students will complete a paid, finance-related internship during the summer between their junior and senior year. The Director of the Academy of Finance and the employer will work closely to provide the student with a valuable learning experience in the financial field. Students will complete 180 hours on the job. **Requirement – Acceptance into the Academy of Finance**

DIGITAL AGE INFORMATION TECHNOLOGY ACADEMY (D.A.I.T.A.)

An action based program for all students to learn how to develop, produce, use, and assess the impacts of products and services that extend the human potential to improve and control the natural and human made environment. Each student who participates in the program will develop an understanding of technology as a system in the global context by developing an ability to…..

- **Develop technological products and services**
- **Use tools, machines, materials, and energy to produce products and services**
- **Select appropriate technology to solve problems and meet opportunities**
- **Appropriately use technology to extend human potential to improve and control our environment**
- **Assess the impacts of technology on individuals, society, and the environment**
- **Use appropriate personal and interpersonal skills to participate in a technological society**

To reach these goals, the program is based on the technological actions that are universal for all technologies. The total curriculum addresses these two key aspects:

- **The specific actions used in developing, producing, using, and assessing all technologies**
- **The contexts where technology is developed and used. This includes the areas documented in the national content standards document for the profession (i.e., the Standards for Technological Literacy, ITEA 2000)**

THE FOLLOWING COURSES ARE OFFERED AT HAMILTON SOUTHEASTERN HS ONLY

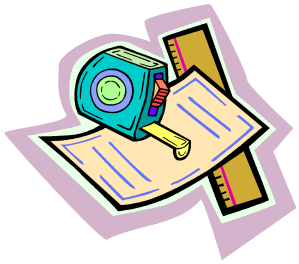
Students in this program will be required to have a study hall/travel period

4784 * MANUFACTURING I SYSTEMS (10, 11, 12) A broad course that explores the application of tools, materials, and energy in developing, producing, using and assessing manufactured products. Students will explore techniques used to apply technology in obtaining resources and in changing them into industrial materials and finished products.

4796 * MANUFACTURING II PROCESSES (10, 11, 12) A specialized course that explores the technological processes used to obtain resources and change them into industrial materials and finished industrial and consumer products. **Requirement – Successful completion of Manufacturing Systems**

4782 * CONSTRUCTION I SYSTEMS (10, 11, 12) A broad course that explores the application of tools, materials, and energy in developing, producing, using and assessing constructed works. Students will explore techniques used to apply technology in producing residential, commercial, and industrial buildings and a variety of civil structures. Course may be supplemented with weekend hours spent at a Habitat for Humanity build (or other similar program).

4792 * CONSTRUCTION II PROCESSES (10, 11, 12) A specialized course that explores the technological processes used to produce residential, commercial, and industrial buildings and a variety of civil structures. **Requirement – Successful completion of Construction systems**



ENGLISH/LANGUAGE ARTS

The Fishers High School English program is a four-year progression that enables students to become engaged, thinking persons in a complex, dynamic world. The curriculum offers various opportunities for students to increase their language potential in courses that are challenging but commensurate with their abilities.

All English courses emphasize the acquisition and development of the skills of disciplined reading, discussion and oral presentation as well as mastery of the various forms, modes, and strategies of written composition. From the wealth of ideas explored in the study of literature, the student can recognize and empathize with the human experience and gain an understanding of the enduring power of the human mind and spirit.

Freshman and sophomore courses concentrate on the essential competencies in the skills of language, reading, and composition. The junior and senior years not only refine and reinforce the skills introduced earlier but also lead the student into the more advanced skills of the language arts. In the senior year, students can concentrate, in depth, on various genres, themes and topics of English through a variety of specialized courses as well as the sequential fourth year courses.

In the English program, students acquire the habits of scholarship, grow in written and spoken self-expression, and develop responsiveness to important works of literature, which gives them an effective pattern for examining ideas and a solid basis for successful pursuit of higher education and careers. Emphasis is upon application of literacy skills in new contexts rather than upon recall of facts.

2188 (9, 10, 11, 12) ENGLISH AS A NEW LANGUAGE - This course for Limited-English Proficient (LEP) students is geared toward the enhancement of listening, speaking, reading and writing skills while exposing students to American literature, culture, government and history. **Requirement - Referral based on Home Language Survey, language assessment, and counselor recommendation**. **THIS DOES NOT COUNT AS AN ENGLISH CREDIT but will count as elective credit.**

1002 ENGLISH 9 (9) This is a year-long study of various literary genres: short stories, novels, drama, poetry, and non-fiction. The emphasis is on literary elements and critical reading as they are integral to composition with effective syntax and accurate, logical expression; and expansion of ideas. Independent research projects supplement class study. Study of the elements of language, including grammar, usage, and punctuation, is important to the work in composition. Speaking and listening skills and activities are also included as an integral part of the course as a means of meeting the Indiana Department of Education (IDOE) Language Arts standards.

1002 ENGLISH 9 with a lab (9) This is a year-long study of various literary genres: short story, poetry, drama, and non-fiction. The course emphasizes development of essential skills in reading, writing, listening and speaking. Fundamental language arts skills are stressed in study habits, written and oral expression, and critical reading and analysis. The course also features the study of grammar, usage and punctuation. This course is designed for students who are at-risk for not passing the English 10 Core 40 End of Course Assessment (ECA -the new GQE). **Students in this course will also be required to enroll in a Language Lab course.** The lab course will be an extension of the curriculum covered in English 9 and gives the students an additional opportunity to focus on those particular language arts skills necessary to pass the English 10 End of Course Assessment - Graduation Qualifying Exam. The lab course will not count as an English credit but will count as an elective credit.

1002 # HONORS ENGLISH 9 (9) This year-long course involves the study of mythology, novels, and dramas of world literature that explore the dilemmas mankind has confronted throughout the ages, particularly its attempts to understand existence and identity. Critical reading and depth of analysis is integral to the course, as is composition, emphasizing effective syntax; accurate, logical expression; and expansion of ideas. Study of the elements of language, including grammar, usage, and punctuation, will supplement composition development. Speaking and listening activities, including formal speeches, are also emphasized in the course as an integral part of meeting mandated Language Arts standards. Additionally, this course is designed to address the College Board objectives for Advanced Placement (AP) English courses and has been vertically aligned with our AP English courses in an effort to lay important foundation work for future enrollment and success in AP English classes or the IB Programme: therefore, students should anticipate rigorous assessments and expectations. **Summer reading and associated assignments are required and can be found on the FHS website near the middle of May. Recommendation: A "B" average in 8th grade English**

1012 ENGLISH 9 (ENL) This course is designed for students with limited English proficiency levels 1-4. The ninth grade language arts standards will be addressed. This course will meet the English 9 credit requirements. **Requirement – Recommendation of counselor or previous ENL instructor**

1004 ENGLISH 10 (10) This year-long course focuses on developing reading strategies suitable to the literal, interpretive, and evaluative features of literature. Students will closely examine literary elements and encounter different genres of reading and writing as a means to engage in active learning strategies as well as developing and enhancing overall writing and reading comprehension skills. Students will study grammar and usage in the context of language for accurate, precise, and convincing expression. Speaking and listening skills continue to be addressed as a means of meeting the IDOE Language Arts standards. **Requirement – Successful completion of English 9**

1004 ENGLISH 10 with a lab (10) This year-long course is a study of the various literary genres and authors from around the world with increased emphasis on reading comprehension, literary response and analysis, and oral communication skills. *This course is for students who have not yet developed proficiency in the language arts standards based on grades in English 9, school writing assessments, and teacher observation and are at risk for failure on standardized tests.* **Students in this course will also be required to enroll in a Language Lab course.** The lab course will be an extension of the curriculum covered in English 10. This will give students an additional opportunity to focus on those particular language arts skills addressed in the state standards. The lab course will not count as an English credit but will count as an elective credit.

1004 # HONORS ENGLISH 10 (10) This course entails intensive study of challenging literature in a variety of genres by British authors. Emphasis is on analysis of universal themes and archetypes, critical examination of the art and craft of writing, and the relationships among works across time periods. Annotation of texts as a means of explication is emphasized, beginning with the summer reading assignment. Grammar and usage is taught in the context of language for development of rhetorical style, and speaking and listening skills are incorporated throughout the course by means of Socratic seminars and formal speeches. Additionally, this course is designed to address the College Board objectives for AP English courses and has been vertically aligned with our AP English courses in an effort to lay important foundation work for future enrollment and success in AP English classes or the IB Programme; therefore, students should expect more rigorous assessments and guided practice with practice AP multiple choice tests, timed writings, and commentary analysis. **Summer reading and associated assignments are required and can be found on the FHS website near the middle of May. Recommendation - Honors English 9**

1012 ENGLISH 10 (ENL) This course is designed for students with limited English proficiency levels 1-4. The class will read a selection of texts from around the world. The course is designed to meet ELLs at their proficiency level while meeting 10th grade English/Language Arts standards. **Requirement – Recommendation of counselor or previous ENL instructor**

1006 ENGLISH 11 (11) This year-long course is a study of American literature with emphasis on authors, literary works, interpretation, research elements, and SAT preparation. Through the integrated study of literature, composition, and oral communication, students will further develop their use of language as a tool for learning and thinking. **Requirement - Successful completion of English 10**

1006 THE AMERICAN EXPERIENCE, ENGLISH 11 (11) The American Experience (AmEx) is an innovative class that is a **two-period** block course **worth four credits** course and is taught in cooperation by a history and an English teacher. The interdisciplinary class blends the curricula of US History and English 11, satisfying the core course requirements of both and providing an optional, innovative course of study. Learning methods will include 5 novels, composition, music, art, film, and primary source documents integrated into an examination of what makes the "American experience" unique. Emphasis is placed on public speaking to a large group of students, cooperative work, discussion, creative and analytical writing, document examination, reading both fiction and non-fiction, and projects. **Requirement – Successful completion of English 10, Recommendation – "C+" average or better in English 10 and World History/Geography and History of the World**

1130 ## IB LANGUAGE A1, HL, Year 1 (11): This course is a pre-university literature course in the student's native or best language. Language A1 promotes an appreciation of literature and knowledge of the student's own culture, along with that of other societies, and develops the student's power of expression, both in oral and written communication. The course emphasizes the skills involved in writing and speaking in a variety of styles and situations and offers students the opportunity to read and study works representing different literary periods, genres, and regions in the target language, as well as literature in translation. **Summer reading and associated assignments are required and can be found on the FHS website in the middle of May. Requirement – Enrollment in IB diploma program or by permission of English Department Chair**

1056 ## AP ENGLISH LANGUAGE AND COMPOSITION (11, 12) – This course is a year-long rigorous, college-level application of writing techniques with an emphasis on rhetorical devices and stylistic maturity of multi-paragraphed essays implemented specifically in non-fiction literature. It includes expository, persuasive and analytic writing, as well as a discerning interaction between reading and the writing process. Students will be expected to engage in critical discussion and presentation of writing, their own and published authors. The student must have a solid knowledge of structure and mechanics. This course offers the student the opportunity to pursue and receive credit for college-level course work by taking the AP exam in May. If the student successfully completes this examination, she/he may qualify for up to one year's college credit in English at the college of choice. **Summer reading and associated assignments are required and can be found on the FHS website in the middle of May. Requirement – If enrolling as a junior: a "C" average in Honors English 10 or a "B" average in English 10. If enrolling as a senior: a "C" average in AP Literature and Composition or "B" average in English 11 WITH teacher recommendation**

1058 ## AP LITERATURE AND COMPOSITION (11, 12) This year-long course offers students the opportunity to engage in close textual analysis and critical interpretation of imaginative, challenging works in several genres from a range of time periods. Through the close reading of selected texts, students will deepen their understanding of the way writers use language to provide both meaning and pleasure for smaller-scale elements like figurative language, imagery, symbolism, and tone. Critical analysis skills, oral presentations, and interpretive writing will be emphasized. This class offers students the opportunity to pursue and receive credit for college-level work by taking the AP exam in May. If the student successfully completes this examination, she/he may qualify for up to one year's college credit in English at the college of choice. **Summer reading and associated assignments are required and can be found on the FHS website in the middle of May. Requirement – If enrolling as a junior: a "C" average in Honors English 10 or a "B" average in English 10. If enrolling as a senior: a "C" average in AP Language and Composition or "B" average in English 11 WITH teacher recommendation**

1130 ## IB LANGUAGE A1, HL, Year 2 (12) This course is a pre-university literature course in the student's native or best language and is a continuation of IB Language A1 HL Year 1. Language A1 promotes an appreciation of literature and knowledge of the student's own culture, along with that of other societies, and develops the student's powers of expression, both in oral and written communication. The course emphasizes the skills involved in writing and speaking in a variety of styles and situations and offers students the opportunity to read and study works representing different literary periods, genres, and regions in the target language, as well as literature in translation. **Summer reading and associated assignments are required and can be found on the FHS website in the middle of May. Requirement - Enrollment in IB diploma program or by permission of English Department Chair**

1076 * SPEECH I (9, 10, 11, 12) This semester-long course is designed for students who want a more in-depth study of oral communication than is offered in the core English curriculum and is highly recommended for college bound students. The course focuses on the art of effective critical listening and the writing and performing of informative, persuasive, impromptu and interpretive speeches. Reading and analyzing a variety of literary genres is an integral part of composing all performances.

1078 ** ADVANCED SPEECH AND COMMUNICATION (10, 11, 12) Advanced Speech continues with the skills learned in Speech. Major emphasis is given to producing formal speeches and oral interpretation. The course focuses on leadership development, listening skills, oral interpretation, parliamentary procedures, research methods, and oral debate. Special attention is given to creating competitive speeches, interpretation and debate. **This course does not meet the Speech requirement for the diploma options and counts as elective credit, not English credit. Requirement – Speech I or Theatre Arts I or with instructor's permission**

1124 * # ACP SPEECH (12)This dual credit course offered through Indiana University focuses on the theory and practice of public speaking, training in thought processes necessary to organize speech content, and analysis of components of effective delivery and language. Course objectives include familiarizing students with the basic principles of effective and ethical public speaking, developing critical listening skills, and applying organizational and delivery techniques in writing and presenting a speech. Students may take this course for S121 credit through Indiana University or take the course for high school credit only**. IU requirements for admission to this course – GPA 2.7 or higher on a 4.0 scale within a college preparatory curriculum. Tuition is approximately $75.00 plus fees for a college textbook. IU's policy with regard to submission of assignments will supersede the FHS English Department policy on late assignments. Recommendation for non-ACP credit - A "C+" average in academic classes, a "B-" average in English classes or a "C+" with the recommendation of junior English teacher, Requirement – B average in English courses**

1060 * ETYMOLOGY (10, 11) This course is for college bound students who are interested in developing standardized test/SAT-related skills and for those who wish to broaden their vocabulary. Course objectives include learning basic Greek and Latin roots, prefixes, suffixes, and their derivatives. This course also includes study of foreign phrases appearing in English. While rote memorization is a large part of this course, students will be exposed to a variety of skills that will prove beneficial for test taking and academic application. **Recommendation – A "C" average in English, This course does not count as an English credit but will count as an elective credit.**

1040 * LITERARY MOVEMENTS/MIDDLE AGES AGE THROUGH THE RENAISSANCE (11, 12) This course is designed to explore European literature from the Middle Ages to the Renaissance. Students will examine the connections between historic issues, literary movements and trends as they are reflected in the literature of each period. Authors such as Chaucer, Dante, Shakespeare, and Mallory will be studied in depth. Class discussions, oral presentations, various projects and writing assignments will focus in depth on attitudes and concepts of the different movements and literary works. **Juniors choosing to enroll in this course must do so while concurrently enrolled in their "core" English course. Recommendation - A "C" average in English**

1026 * CLASSICAL LITERATURE (11, 12) This elective course is a survey of Greek and Roman literature, including authors such as Homer, Sophocles, Plato, Aristotle, Virgil, and Plutarch. A variety of literary genres including comedy, tragedy, myths, and epics will be studied. The influence of classical literature on modern literature may also be explored. Emphasis is placed on reading, oral discussion, group projects, and written discourse. **Juniors choosing to enroll in this course must do so while concurrently enrolled in their "core" English course. Recommendation - A "C" average in English**

1008 * ENGLISH 12- "A Reader and Writer's Journey" (12) With a spotlight on self-discovery of a reader and writer's journey, this course is designed to benefit students of all learning levels. Differentiated class assignments promote reading, writing, and speaking in accordance with Indiana's grade 12 language arts standards. The focus is on further developing and honing written, oral communication, reading comprehension, and analytical skills previously studied in underclass English courses. Students respond critically, reflectively, and creatively to literary and informational texts. Additionally, students complete an engaging and reflective legacy project, participate in a Read Aloud, and undertake college exploration tasks. A core component of what drives this course is the 6 Traits® of an Effective Reader and the 6+1 Traits® of Writing. **Requirement – Teacher approval**

1008 * ENGLISH 12 "A Reader and Writer's Showcase" (12) This course is designed to benefit students of all learning levels and it is a *possible* continuation of a "Reader and Writer's Journey" (it is *different* from ENG601). Differentiated class assignments promote reading, writing, and speaking in accordance with Indiana's grade 12 language arts standards. The focus is on further developing and honing written, oral communication, reading comprehension, and analytical skills previously studied in underclass English courses. Students respond critically, reflectively, and creatively to literary and informational texts. Additionally, showcasing opportunities exist when students complete an engaging and reflective valedictory project, author a children's book, and undertake career exploration tasks. A core component of what drives this course is the 6 Traits® of an Effective Reader and the 6+1 Traits® of Writing. **Requirement – Teacher approval**

1090 * COMPOSITION (11, 12) This course invites the college-bound student to think, discuss, and write about issues examined by various writers from a variety of disciplinary fields. Students will have frequent opportunities to write for different audiences and purposes, using a process that includes: (1) prewriting, (2) drafting, (3) peer sharing, (4) revising (content, structure, or presentation), (5) editing (grammar, punctuation, spelling, usage, and (6) producing a final product. Selected readings from a variety of writing modes provide models of effective writing techniques. Centered on the question "What makes effective writing?" the course provides ample opportunities for students to offer and receive constructive feedback from others. Instruction in grammar, usage and mechanics will be integrated with writing so that students develop both a functional understanding of rhetoric as well as a common vocabulary for discussing writing. Students will produce seven or more extemporaneous essays using a variety of patterns of development, as well as two major papers. The rigor of this course is on par with most first-year college composition courses. **Juniors enrolled in composition must be concurrently enrolled in English 11, AP English Literature, AP Language and Composition, or IB English, Recommendation - A "C" average in English; juniors must have a "B" average in English**

1092 * CREATIVE WRITING (11, 12) Creative Writing is a one semester course which offers an in-depth study of the effective rhetorical strategies for writing fiction, with an emphasis on prose, poetry and drama. Students use the writing process to apply, investigate and create while demonstrating an awareness of language conventions, reading audience, writing purpose and genre technique. Students learn to recognize style in published author's works, as well as discovering and establishing their own style. Projects include, but are not limited to, a short story, a poem book and a one act play**. Juniors choosing to enroll in this course must do so while concurrently enrolled in their "core" English course. Recommendation Seniors – A "C" average in English, Juniors – A "B" average in English, Instructor highly suggests concurrent or previous enrollment in a literature course**

1124 # * ADVANCED ENGLISH/LANGUAGE ARTS - COLLEGE CREDIT COMPOSITION (ACP/I.U. W131) (12) W131 provides students an opportunity to examine a few issues under discussion in many different disciplinary fields and among the public and to cultivate the reading, writing and analytical skills students will need in the university and beyond. The course reading invites students not just to talk about the issues, but also to examine the different analytical frameworks and assumptions that various authors and we our selves bring to such conversations. Authors will guide student inquiry into the issues, but students will also develop their own claims and analysis. **IU requirements for admission to this course – GPA 2.7 or higher on a 4.0 scale within a college preparatory curriculum. Tuition is approximately $75.00 plus fees for a college textbook. IU's policy with regard to submission of assignments will supersede the FHS English Department policy on late assignments. Recommendation for non-ACP credit - A "C+" average in academic classes, a "B-" average in English classes or a "C+" with the recommendation of junior English teacher**

1124 # * ADVANCED ENGLISH/LANGUAGE ARTS – COLLEGE CREDIT LITERATURE (ACP/IU L202) (12) is a one-semester course which emphasizes a close, thoughtful reading of representative literary texts of various genres drawn from a range of historical periods and countries. Objectives of the course include: familiarizing students with basic elements of literature, helping students appreciate the usefulness of *comparing* literary works with one another, making students aware of the multiple *contexts* in which a literary work may be placed, and familiarizing students with basic elements of arguing about literature. Another important goal is for students to develop the ability to read and write with precision, responsibility, and imagination through class discussion and the writing of several short, critical responses which incorporate the composition framework set forth by W131. Students may take this course for L202 credit through Indiana University or take the course for high school credit only**. IU requirements for admission to this course – GPA 2.7 or higher on a 4.0 scale within a college preparatory curriculum. Tuition is approximately $75.00 plus fees for a college textbook. IU's policy with regard to submission of assignments will supersede the FHS English Department policy on late assignments. Recommendation for non-ACP credit - A "C+" average in academic classes, a "B-" average in English classes or a "C+" with the recommendation of junior English teacher**

1080 * JOURNALISM (9, 10, 11, 12) This is a one semester course with emphasis on journalistic writing. Journalism is a study of the art of journalism and the profession of journalists. This course includes the process involved in: (1) reporting and writing news stories, (2) the legal and social responsibilities involved in newspaper publications, and (3) the ethics of accurate and fair reporting. This course includes extensive reading of models of excellent journalistic techniques and evaluates and analyzes journalistic writing through discussions and critiques. This is a prerequisite course for newspaper or yearbook. **Recommendation - A "B" average in English, This course does not count as an English credit but will count as an elective credit.**

1080 * PHOTOJOURNALISM (9, 10, 11, 12) This is a one-semester course for students interested in learning skills associated with digital photography and photojournalism. Photojournalism is a visual journalistic method of telling compelling stories about people doing something unusual. There is an emphasis on creating a photojournalistic story complete with copy, captions, headlines and proper composition to produce design templates. Work will be completed in the iMac publication lab utilizing Adobe PhotoShop CS3 and Adobe InDesign. This is a prerequisite course for newspaper or yearbook. **STUDENTS MUST HAVE A DIGITAL CAMERA WITH A MINIMUM OF 4.0 MEGAPIXELS, A STORAGE CARD WITH 1GB CAPACITY, A CARD READER AND USB CORD. This course does not count as an English credit but will count as an elective credit.**

1086 ** STUDENT PUBLICATIONS/NEWSMAGAZINE/NEWSPAPER PRODUCTION I (10, 11, 12) This class is devoted to the continued use of journalism and photojournalism skills. Members of this class produce, *Tiger Topics N the RED*, a 12 to 24 page newsmagazine covering student life and the school community. Student publications offer practical training in publishing the school newspaper. Students plan, publish, market, and distribute their school publications. After an application process, the publication's adviser will select staff members. A student may not enroll in this course unless first approved by the adviser after completion of an application process. Students named to editorial board/leadership team positions are required to fulfill commitments the entire school year. Students not fulfilling obligations to positions on the staff will be removed from the staff at the adviser's discretion. **Requirement – Journalism and/or Photojournalism (requirement may be waived by adviser), This course does not count as an English credit but will count as an elective credit.**

1086 ** STUDENT PUBLICATIONS/NEWSMAGAZINE/NEWSPAPER PRODUCTION II (10, 11, 12) This class is devoted to an advanced and continued use of journalism skills. Members in this class produce the school newsmagazine, *Tiger Topics N the RED*, which covers all aspects of school life and demands strong journalism skills. A staff application is required for this course, and students must be approved by the adviser prior to course enrollment. Students named to editorial board/leadership team positions are required to fulfill commitments the entire school year. Students who fail to meet obligations may be removed from the staff at the adviser's discretion. **Requirement – Newsmagazine/Newspaper I, This course does not count as an English credit but will count as an elective credit**

1086 ** STUDENT PUBLICATIONS/NEWSMAGAZINE/NEWSPAPER PRODUCTION III (11, 12) This class is devoted to an advanced and continued use of journalism skills. The members in the class produce the school newsmagazine, *Tiger Topics N the RED*, which ranges in size from 12 to 24 pages and covers all aspects of school life, and demands strong journalism skills. A staff application is required for this course, and students must be approved by the adviser prior to course enrollment. Students named to editorial board/leadership team positions are required to fulfill commitments the entire school year. Students who fail to meet obligations may be removed from the staff at the adviser's discretion. **Requirement – Newsmagazine/Newspaper II, This course does not count as an English credit but will count as an elective credit**

1086 STUDENT PUBLICATIONS/YEARBOOK PRODUCTION I (10, 11, 12) This class is devoted to an advanced and continued study of journalistic writing and publications through the practical application of skills learned in Journalism and Photojournalism. Student Publications offers practical training in publishing the school yearbook. Students plan, publish, market, and distribute their school publication. The members of this class are the staff members of the school yearbook, *Tiger Tracks*, which produces the 300 + page yearbook for the school and community. The yearbook will focus on all aspects of school life through news, features, opinion, sports, advertising and photography coverage. A staff application is required to enroll in this course. Editorial board positions will be named each spring. Students named to editorial board/leadership team positions are required to fulfill commitments the entire school year. Students not fulfilling staff responsibilities may be removed from the staff at the discretion of the advisor. **Requirement - Journalism or Photojournalism (requirement may be waived by the advisor). This course does not count as an English credit but will count as an elective credit**

1086 STUDENT PUBLICATIONS/YEARBOOK PRODUCTION II (10, 11, 12) This course is a continuance of the advanced study of yearbook procedure and technique with emphasis on individualized instruction. Editorial board positions are filled by these students. Students wishing to enroll in this course must fill out a staff application in the spring and gain the advisor's approval prior to enrollment. Students named to editorial board/leadership team positions are required to fulfill commitments the entire school year. Students not fulfilling staff responsibilities may be removed from the staff at the discretion of the advisor. **Requirement - Yearbook I, This course does not count as an English credit but will count as an elective credit**

1086 STUDENT PUBLICATIONS/YEARBOOK PRODUCTION III (11, 12) This course is a continuance of the advanced study of yearbook procedure and technique in writing, design, and photography with emphasis on individualized instruction. Students who are third year staff members take on more responsibility for the production and creation of the yearbook. Students are part of the editorial board and fill higher editorial positions. Students named to editorial board/leadership team positions are required to fulfill commitments the entire school year. Students wishing to enroll in this course must fill out a staff application in the spring and gain the advisor's approval prior to enrollment. Staff members and editors not fulfilling obligations for production as set forth by the advisor may be removed from the course. **Requirement – Yearbook I & II, This course does not count as an English credit but will count as an elective credit.**

Fishers High School
English Options

Freshman Year

Requirement:
English 9-1 and 9-2 with a lab **OR**
English 9-1 and 9-2 **OR**
English 9-1 Honors and 9-2 Honors (focus on World Literature) **OR**
English 9 ENL (counselor/instructor recommendation REQUIRED)

Electives: Speech, Journalism*, Photojournalism*

Sophomore Year

Requirement:
English 10-1 and 10-2 with a lab **OR**
English 10-1 and 10-2 **OR**
English 10-1 Honors and 10-2 Honors (focus on British Literature) **OR**
English 10 ENL (counselor/instructor recommendation REQUIRED)

Electives: Etymology*, Speech, Advanced Speech*, Journalism*, Photojournalism*, Student Publications I or II (newsmagazine or yearbook)*

Junior Year

Requirement:
English 11-1 and 11-2 (focus on American Literature) **OR**
The American Experience (combined Eng11 & US History) **OR**
AP Language and Composition **OR**
AP English Literature and Composition **OR**
IB Language A1, year 1
Students who successfully complete APLAC, APELIT, or IB fulfill the graduation requirement for Group A and will not have to take a Group A course their senior year.

Electives: Etymology*, Speech, Advanced Speech*, Literary Movements, Classical Literature, Composition, Creative Writing, Journalism*, Photojournalism*, Student Publications I, II, or III (newsmagazine/yearbook)*

Senior Year

Students MUST earn at least 1 credit in a course from Group A.

GROUP A:
AP English Literature & Composition
AP Language & Composition
IB Language A1, year 2
ACP Composition
Composition
English 12 with approval

GROUP B:
Speech
ACP Speech
English 12 with approval
Creative Writing
ACP Literature
Literary Movements
Classical Literature

OTHER:
Student Publications I, II, or III (newsmagazine or yearbook)*
Advanced Speech*, Journalism*, Photojournalism*

*** Although offered in the English department, coursed designated with an asterisk (*) do NOT count for English credit**

FAMILY AND CONSUMER SCIENCE

The mission of family and consumer sciences education is to prepare students for family life, work life, and careers in family and consumer sciences by providing opportunities to develop the knowledge, skills, attitudes, and behaviors needed for;

- **Strengthening the well-being of individuals and families.**
- **Becoming responsible citizens and leaders in family, community, and work settings.**
- **Promoting optimal nutrition and wellness.**
- **Managing resources to meet the material needs of individuals and families.**
- **Balancing personal, home, family, and work lives.**
- **Using critical and creative thinking skills to address problems in diverse family, community, and work environments.**
- **Managing employment and career development successfully.**
- **Functioning effectively as providers and consumers of goods and services.**
- **Appreciating human worth and accepting responsibility for one's actions and success in family and work life.**

Courses are taught using a hands-on approach, enabling students to experience real life situations. Whether it be working with children or producing a product, family and consumer science courses will empower a student to meet the challenges they will encounter during their lives.

5342 * NUTRITION AND WELLNESS (9, 10, 11, 12) Nutrition and Wellness is a laboratory based course that enables students to realize the benefits of sound nutritional practices and apply them to their everyday lives. Selection and preparation of nutritious meals and snacks with a focus on the principles of food science are taught through a variety of laboratory experiences. Examination of the student's current eating habits in relation to the USDA Dietary Guidelines and the MyPlate Food Guide is included. Food safety, storage, sanitation and career paths related to nutrition and wellness are also components of this course.

5340 * ADVANCED NUTRITION AND FOODS (10, 11, 12) Exploration into regional and global aspects of nutrition and wellness issues is a large component of this course. Laboratory experiences are integral to a varied look at these issues and their relationship to wellness around the world. Units over small appliances, food purchasing, meal planning and etiquette are a part of this course, as well as careers related to nutrition and wellness and food service. **Requirement - Nutrition and Wellness**

5380 * FASHION AND TEXTILE FOUNDATIONS (9, 10, 11, 12) This one semester course explores the influences on fashion as well as elements and principles of design in relation to apparel. Basic construction skills are taught, including use of a pattern, care and use of a sewing machine, as well as other tools used in construction. The latest technologies in apparel construction are utilized to create a variety of textile products. Additional expenses will be incurred with this course as students select their own fabrics for some projects. No student will be denied enrollment due to financial reasons.

5380 * ADVANCED FASHION AND TEXTILE FOUNDATIONS (10, 11, 12) A more in-depth and individualized look at textiles and fashion includes examining current designers in today's market, fashion throughout the decades, and career in the fashion industry. Refinement of apparel construction skills is also included with the completion of various fashion and home decorating projects. Additional expenses will be incurred with this course as students select their own fabrics for some projects. No student will be denied enrollment due to financial reasons. **Requirement – Fashion and Textiles Foundations**

5330 * ADULT ROLES AND RESPONSIBILITIES (11, 12) The class will cover knowledge, skills, attitudes, and behaviors students will need to become a productive adult in today's ever changing society. Topics in the curriculum will include living independently, analyzing personal standards, needs, and goals. Discussions will also include community roles and responsibilities of families and individuals.

5362 * CHILD DEVELOPMENT (10, 11, 12) Child Development teaches about the child from conception through infancy. Students learn about the physical, intellectual, emotional, and social development of children, and the correlating parenting skills needed. Emphasis is on the critical time period for brain development, and the importance of the pregnancy period and associated hazards that can affect the developing child.

5362 * PARENTING (10, 11, 12) This course addresses the knowledge, skills, attitudes, and behaviors associated with supporting and promoting optimal growth and development of infants and children. A project-based approach that utilizes higher order thinking, communication, leadership, and management processes will be used in order to integrate suggested topics into the study of individual and family issues. The focus is on research-based nurturing and parenting practices and skills, including brain development research, which supports positive development of children. Topics focus on the consideration of the roles, responsibilities and challenges of parenthood. This course will focus on the child beginning at age 2. **Requirement – Child Development**

5364 * INTERPERSONAL RELATIONS (9, 10, 11, 12) This course helps students develop communication, and conflict resolution skills. Students learn problem solving through hands-on activities, decision making for the many choices they must make and social skills for peer and family relationships. The book The 7 Habits of Highly Effective Teens is incorporated into this course

5334 * CONSUMER ECONOMICS (11, 12) Consumer Economics is designed to prepare students to manage their resources in order to develop a satisfying lifestyle. Emphasis will be placed on the consumer in the marketplace. Skills in goal setting as well as obtaining knowledge on career choices will be covered. How do you plan for a vacation? What appliances do you need for your first apartment? What is a mortgage? These questions will be addressed in this course.

5350 ** HOUSING AND INTERIOR DESIGN FOUNDATIONS (10, 11, 12) A one or two semester course recommended for any student who is interested in a career or profession related to Interior Design, Architecture, and/or Construction Industry. This course is a project-based course which addresses selecting and planning living environments to meet the need and wants of individuals and families throughout the Family Life Cycle. First semester topics include: universal design, contemporary trends, technology issues, creating functional, safe and aesthetic spaces/interiors, house and furniture styles, environmental and energy issues, locations, zones, ownership options and space planning for homes. Both semesters will focus on drafting techniques, as well as stressing direct applications of math proficiencies used by housing and interior design professionals.

THE FOLLOWING COURSES IS OFFERED AT HAMILTON SOUTHEASTERN HS ONLY

Students in this program will be required to have a study hall/travel period

5412 EDUCATION AND EARLY CHILDHOOD I, II (11, 12) 2 CREDITS PER SEMESTER, This course is designed for students who wish to explore a career in early childhood education, own or operate a child care facility, teach elementary school, work with special needs children or be a parent. Students are in class for 2 hours a day, two days a week and at a child care facility 2 hours per day, three days a week. **Requirement - Child Development and Parenting, with a "C" average recommended. Students must provide their own transportation to the child care facility.**

5460 HOUSING AND INTERIOR DESIGN CAREERS I, II (11, 12) Housing and Interior Design Careers is a project-based course that prepares students for occupations and higher educational programs of study related to careers in the Interior Design, Architecture, Construction Industries and it relates to Commercial Design. Topics will include client-centered designs in the commercial environment using the Elements and Principles of Design as well as blue printing, space planning, rendering, drafting, and elevations. Other areas of study will include: technological, environmental, zoning, building codes, regulations and Universal Design and their impact on Commercial Properties. Extensive lab experience with CAD (computer-aided drafting) will be a required component of the course. This course can be taken for a second year. **Requirement – One semester of Housing and Interior Design Foundations**

MATHEMATICS

The mission of the Fishers High School Mathematics Department is to challenge students to become mathematically powerful in an ever-changing world. Students of mathematics will practice logical thinking strategies, utilize technology to promote analytical thinking, and they will master concepts to solve various problems for all disciplines.

Topics in the next course build significantly on the topics in the previous course. Therefore, the requirements of the course must be met to enter a particular course. If the requirements are not met and the student wishes to still take the course the parents will be required to sign a waiver form regarding the rigors of the course. Students who have passed a more difficult course may not go back and take a lower level course. **When extraordinary circumstances exist, consult the guidance department in conjunction with the math department chairperson. For a more detailed look at all of our courses listed, visit the Indiana Department of Education website, http://www.doe.in.gov/standards/docs-Math.**

2520 ALGEBRA I (9, 10, 11, 12) This course provides a formal development of algebraic skills and concepts. Topics include properties of real numbers, solution and evaluation of equations, including linear and quadratic, and inequalities, graphing of linear equations and systems of equations, use of exponents, and introductory topics from statistics and probability.

2510 ALGEBRA ENRICHMENT (9, 10, 11, 12) Algebra Enrichment is a mathematics support course for Algebra I. The course provides students with additional time to build the foundations necessary for high school math courses, while concurrently having access to rigorous, grade-level appropriate courses. The five critical areas of Algebra Enrichment align with the critical areas of Algebra I: Relationships between Quantities and Reasoning with Equations; Linear and Exponential Relationships; Descriptive statistics; Expressions and Equations; and Quadratic Functions and Modeling. However, whereas Algebra I contains exclusively grade-level content, Algebra Enrichment combines standards from high school courses with foundational standards from the middle grades. **This course counts as a math course for the General Diploma only and as an elective for the Core 40, Core 40 with Honors, or Core 40 with Technical Honors Diplomas. Requirement – Recommendation of 8th grade math teacher**

2532 GEOMETRY (9, 10, 11, 12) This course covers primarily plane geometry with some solid geometry topics. It includes deductive and inductive reasoning; the ideas of proof and logic are stressed. Properties and relationships of geometric figures including the study of angles, lines, planes, congruent and similar triangles, parallel lines, circles and their arcs and angles, and coordinate geometry, trigonometric ratios, polygons, including similar polygons, and spheres, spatial drawings and three-dimensional relationships are all included. **Requirement - Successful completion of both semesters of Algebra I, Recommendation - "C" average or above in Algebra I**

2532 # GEOMETRY, HONORS (9, 10) This course is offered to students recommended as most able in mathematics. The development of theorems will necessitate a working knowledge of measurement, congruence, similarity, parallelism, perpendicularity, transformations, probability, perimeter, area, volume, trigonometry, and application of algebraic concepts to geometry. This course differs from regular Geometry in that more topics are studied, concepts are investigated in greater depth, pacing is faster, and proofs and algebra are integrated throughout the entire course. Students considering this course should be active, inquisitive, and independent learners. **Requirement - A "B" average in Algebra and nomination of 8th grade teacher. Recommendation - An "A" average in Algebra**

2522 ALGEBRA II (10, 11, 12) This course extends knowledge of algebra. Topics include properties of real numbers, functions, graphing in two dimensions, inequalities, properties of exponents, systems of equations, rational exponents, radicals, logarithms, polynomials and polynomial functions, complex numbers, sequences and series, probability, and the properties and graphs of conic sections. **Requirement - Successful completion of Algebra I, Recommendation: "C" average or above in Algebra I. This course may be taken at the same time as Geometry if the student has the recommendation of his/her Algebra I teacher AND at least an "A" average in Algebra I.**

2522 # ALGEBRA II, HONORS (9, 10, 11) This course is offered to students recommended as most able in mathematics. The content of the course includes all topics in Algebra II, presented from a more abstract and theoretical standpoint. Additional topics include determinants, linear programming, matrices, limits, statistics and an introduction to trigonometry. The student will be asked to purchase a TI-83 orTI-84 graphing calculator. **Requirement – Successful completion of Honors Geometry, Recommendation –"B" or higher average in Honors Geometry**

2658 * PRE-CALCULUS (10, 11, 12) This is a one semester course that blends together all of the concepts and skills needed to master our college-level calculus courses. This course and trigonometry are designed for students who will need Calculus as a required course for their major. Engineering, science majors, business majors, etc. will require a calculus course in college. Topics include relations and functions, logarithmic and exponential functions, sequences, series, data analysis, mathematical reasoning and problem solving. Students will also advance their understanding of imaginary numbers through an investigation of polar coordinates and complex numbers. The student will be asked to purchase a TI-83 or TI-84 graphing calculator. **Requirement – Successful completion of Algebra I, Algebra II, and Geometry, Recommendation - A "B" average in Algebra I, Algebra II and Geometry**

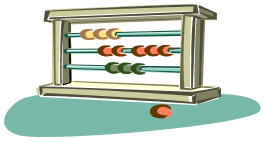
2566 * TRIGONOMETRY (10, 11, 12) This is a one semester course that provides the students with the skills and understandings that are necessary for advanced manipulation of angles and measurement. Trigonometry is the study of the measurement of triangles. Topics include, but are not limited to: solving right and oblique triangles, trigonometric identities, inverse trigonometric functions, and graphing trigonometric functions. This course is designed for students who expect math to be a major component of their future college and career experiences, and as such it is designed to provide students with strong foundations for calculus and other higher level math courses**. Requirement—Successful completion of Pre-Calculus, Recommendation - A "B" average in Pre-Calculus**

2564 # PRE-CALCULUS, HONORS (10, 11) This year long course is offered to students recommended as most able in mathematics. In addition to all of the topics of Pre-Calculus and Trigonometry, this course includes, but is not limited to, the concept of a limit, continuity, solving systems of 3 variables, matrices, trigonometric form of complex numbers, and mathematical induction. All topics are approached from theory, applications are more in-depth, and the course is paced much faster than regular pre-calculus. The goal of this course is to prepare students to take Advanced Placement Calculus BC. The student will be asked to purchase a TI-83 or TI-84 graphing calculator. **Requirement - Honors Geometry and Honors Algebra II, Recommendation - "B" or above in Honors Algebra II**

2530 * DISCRETE MATHEMATICS (11, 12) This one semester course is designed for students who will choose higher mathematics in college which may not necessarily include Calculus. Topics include linear programming, matrices, counting principles, recursion, logic, mathematical induction, set theory, graph theory, combinatorial analysis, probability, elementary, inferential, and descriptive statistics. This course prepares students for college courses such as Finite Math. This course could be taken at the same time as Pre-Calculus or Calculus. Students will be asked to purchase a TI-83 or TI-84 graphing calculator for this course. **Requirement – Successful completion of Algebra II, Recommendation – A "B" average in Algebra II**

2546 * PROBABILITY AND STATISTICS (11, 12) This one semester course is designed to aid students in applying statistical techniques in the decision making process. It is for a student who will choose higher math in college which may or may not include calculus. Calculus students are encouraged to take this concurrently with calculus. Topics include methods of data collection, organization of data, measures of central tendency, variation, empirical, classical approaches of probability, sampling theory, one sample hypothesis testing, and the beginnings of making inferences from a sample. Students will be asked to purchase a TI-83 or TI-84 graphing calculator. **Requirement – Successful completion of Algebra II, Recommendation - At least a "C" average in Algebra II**

2570 ## AP/IB STATISTICS (11, 12) This course is designed to aid students in applying statistical techniques in the decision making process. It is for a student who will choose higher math in college which may or may not include calculus. Students will be prepared to take the AP statistics exam upon completion of both semesters of the course. Both semesters will involve application and higher level thinking. In addition to all of the topics of regular Statistics, this course includes, but is not limited to, two sample hypothesis testing, correlation and regression analysis, variance analysis, and statistical process control. Topics have been chosen based on the core topic outline produced by AP Central and The College Board. For the IB student, this course will meet the needs of the studies, standard and high level statistics requirements. Students will be asked to purchase a TI-83 or TI-84 calculator**. Requirement – Honors Algebra II or regular Algebra II, Recommendation – A "B: in Honors Algebra II or an "A" in regular Algebra II. College Board recommends student should have PSAT scores of 65+ math, and 60+ verbal.**



2586 # MATHEMATICAL STUDIES STANDARD LEVEL, SL/IB (11, 12) This course concentrates on mathematics that can be applied to contexts related as far as possible to other subjects being studied, to common real-world occurrences and to topics that relate to home, work and leisure situations. The course includes project work, a feature unique within this group of courses: students must produce a project, a piece of written work based on personal research, guided and supervised by the teacher. The project provides an opportunity for students to carry out a mathematical investigation in the context of another course being studied, a hobby or interest of their choice using skills learned before and during the course. This process allows students to ask their own questions about mathematics and to take responsibility for a part of their own course of studies in mathematics. Furthermore, this type of approach is likely to assist students in their understanding of mathematics by providing a meaningful context and by leading them to understand more fully how to structure their work for the project. Topics include, but are not limited to, number and algebra, sets, logic and probability, functions, geometry and trigonometry, statistics, introductory differential calculus, and financial mathematics. **Requirement - Successful completion of Pre-Calculus, Recommendation- A "B" average in Pre-Calculus**

*** NOTE FOR ALL CALCULUS COURSES:**
Students will be given a math placement exam during the previous school year to aid in determining best calculus placement. The placement exam and the student's PSAT score will be used to determine calculus course placement. Should a student wish to enroll in a calculus course other than the math department chair and calculus instructor recommends, parents will be required to sign a waiver regarding the rigors of the course.

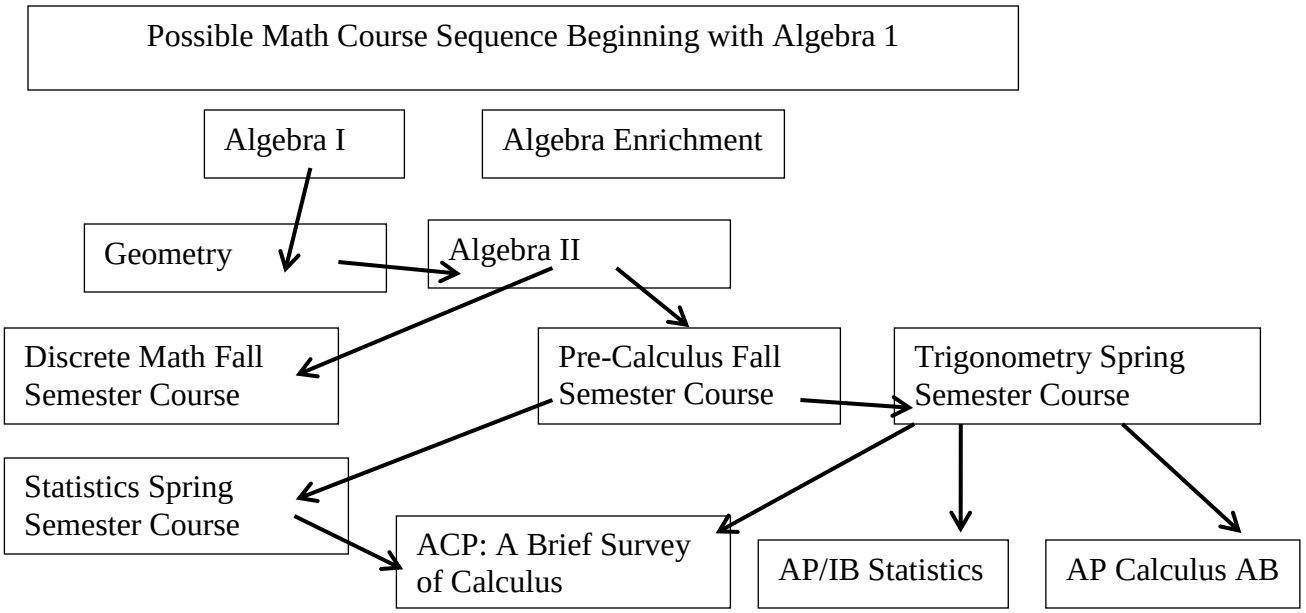
2544 # ADVANCED MATHEMATICS: BUSINESS CALCULUS (ACP M119) (11, 12) This is a college course which will focus on preparation for majors in business and the social sciences. As part of Indiana University Advance College Project, students who enroll may apply to earn three (3) hours of college credit in Mathematics (M119), through Indiana University, Bloomington. Students will be billed at discounted university fees in late fall. Credits are transferable to most colleges and universities throughout the country. Go to http://acp.indiana.edu/ for more information. Students will be asked to purchase a TI-83 or TI-84 graphing calculator. Students enrolled through IU will receive dual credit, both high school and IU credit. Students choosing to take this course, whether for college credit or not, will receive a weighted grade for the second semester of the course. **IU requirements for admission to this course – GPA 2.7 or higher on a 4.0 scale within a college preparatory curriculum. Tuition is approximately $75.00 plus fees for a college textbook. Requirement – Successful completion of Pre-Calculus and note* above, Recommendation – "B" average in Pre-Calculus**

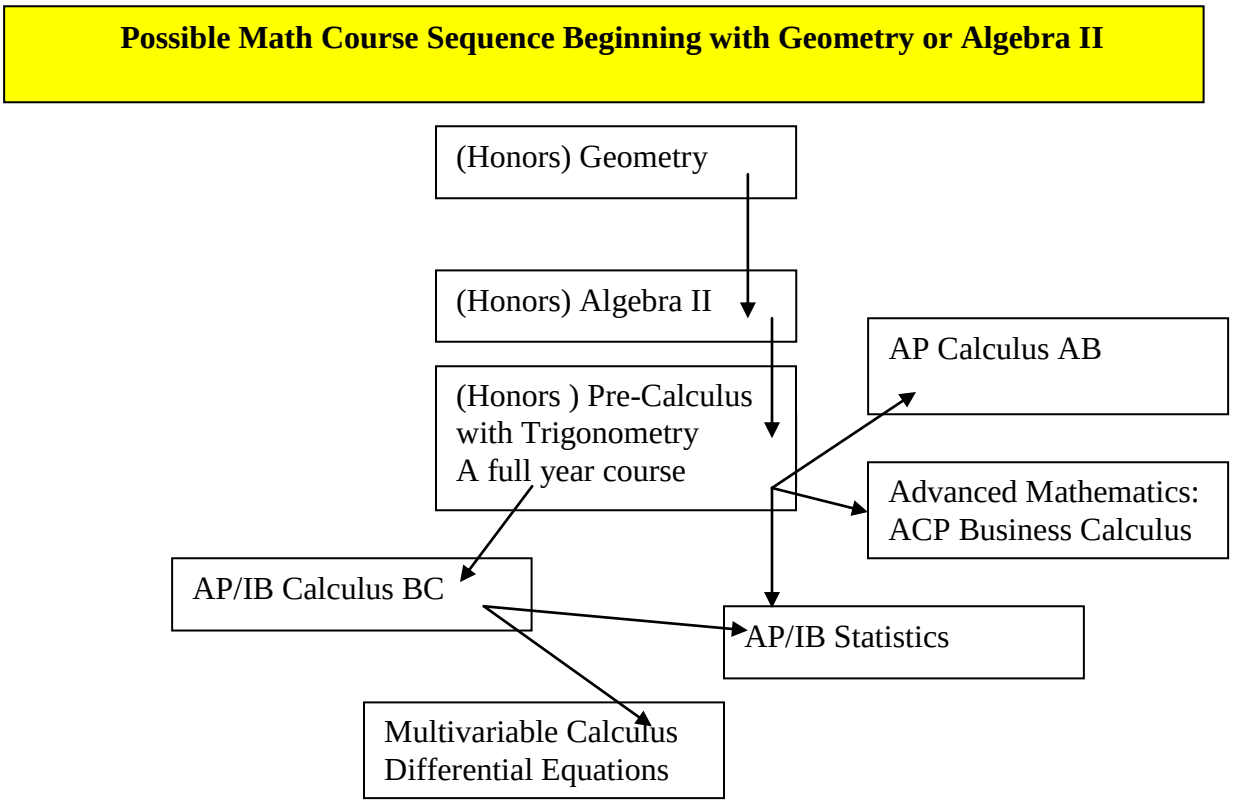
2562 ## AP CALCULUS AB (11, 12) This is a two-semester rigorous college level course that covers both differential and integral calculus. The goal of this course is to prepare the student to be successful on the AB Level of the Advanced Placement Exam in Calculus. As part of taking the AP test, students may be able to test out of one semester of college calculus and earn college credit depending on the university's requirement. This course as compared to MTH650 focuses also on the trigonometric applications of calculus. Science and engineering majors and students undecided about a college major but foresee calculus as part of their college course load would benefit from this course as opposed to MTH650. Students will be asked to purchase a TI-83 or TI-84 graphing calculator. **Requirement – Successful completion of Pre-Calculus and note* above, Recommendation - A "B" average in Honors Pre-Calculus or an "A" average in Pre-Calculus**

2572 ## BC CALCULUS, AP/IB , HL (11, 12) This is a very rigorous college-level course designed for highly motivated math students. The course covers all of the topics of AB Calculus as well as infinite series and sequences, additional techniques of integration, and additional topics in analytic geometry. The goal of this course is to prepare the student to be successful on the BC level of the Advanced Placement Exam in Calculus and in future college math courses. Students who are then very successful on the AP exam may test out of up to 2 semesters of college calculus. Students will be asked to purchase a TI-83 or TI-84 graphing calculator. Students who have taken Calculus AB may take Calculus BC second semester for credit. This course meets the calculus requirement for the IB Math HL curriculum. **Requirement - Honors Pre-Calculus and note* above, Recommendation - "A" average in Honors Pre-Calculus**

2544 * ## MULTI-VARIABLE CALCULUS AND ITS APPLICATIONS (12) Topics include three-dimensional vector calculus, Gauss's theorem, Green's theorem, and Stoke's theorem. This course includes the use of graphing calculators and computer software. This one semester course is offered as a distance learning through Ball State University. Students will participate during the school day. **The course requires special registration through Guidance and the Math Department Chairperson. Requirement – Successful completion of AP Calculus BC**

2544 * ## DIFFERENTIAL EQUATIONS (12) Introduction to nth-order ordinary differential equations, equations of order one, elementary applications, linear equations with constant coefficients, nonhomogeneous equations, undetermined coefficients, variation of parameters, linear systems of equations, and the Laplace transform. This course includes the use of standard computer software. This one semester course is offered as distance learning through Ball State University. Students will participate during the school day. **The course requires special registration through Guidance and the Math Department Chairperson. Requirement – Successful completion of Multi-variable Calculus**


Possible Math Course Sequence Beginning with Algebra 1
Algebra I
Algebra Enrichment
Geometry
Algebra II
Discrete Math Fall Semester Course
Pre-Calculus Fall Semester Course
Trigonometry Spring Semester Course
Statistics Spring Semester Course
ACP: A Brief Survey of Calculus
AP/IB Statistics
AP Calculus AB


Possible Math Course Sequence Beginning with Geometry or Algebra II
(Honors) Geometry
(Honors) Algebra II
(Honors) Pre-Calculus with Trigonometry A full year course
AP Calculus AB
Advanced Mathematics: ACP Business Calculus
AP/IB Calculus BC
AP/IB Statistics
Multivariable Calculus Differential Equations

MULTIDISCIPLINARY

Multidisciplinary courses are not necessarily categorized into any one discipline. These courses integrate two or more disciplines into one course of study. The courses count as elective credits toward graduation but more importantly these courses can provide study which will expand an individual's educational background.

0500 ** BASIC SKILLS DEVELOPMENT (9, 10, 11, 12)This course is designed to help students become more active in transition planning related to students with an active IEP. This course will also help students improve organizational, self-advocacy, and problem solving skills. **Requirement – student must have an active IEP**

0500 ** BASIC SKILLS DEVELOPMENT/READING AND WRITING STRATEGIES (10, 11, 12)This class is designed for students who need support in English and also have not passed the End of Course Assessment (ECA). The course of study includes ECA preparation as well as skills/strategies on test taking. **Requirement – student must have an active IEP or be identified through the RtI process**

0500 ** BASIC SKILLS DEVELOPMENT/MATH (9, 10, 11, 12) This class is designed for students who need support in math and also have not passed the Algebra I End of Course Assessment (ECA). This course will provide extra practice in developing math skills. Students will learn and use specific strategies to enrich their math knowledge. **Requirement – Students must have an active 504 or IEP plan.**

0500 * BASIC SKILLS DEVELOPMENT/PREPARING FOR COLLEGE AND THE SAT (10, 11) This one semester course emphasizes preparation for the Scholastic Aptitude Test (SAT). This preparation includes various test taking strategies and practice in both the verbal and math portions of the test. Procedures for selecting and applying for college and financial aid are also addressed. In addition, college life and its different elements are discussed.

0520 * PEER TUTORING I/SPECIAL NEEDS (10, 11, 12) Students learn to interact with and tutor students with disabilities allowing them to learn teaching and behavior management techniques and terminology. Throughout the semester, students demonstrate knowledge of the following: a) causes of disabilities; b) values and issues related to the integration of students with disabilities in the school and community; c) career options in the field of special education; d) teaching and behavior management techniques and terminology. **Requirement – Completion of application. A student may earn a maximum of 4 credits in Peer Tutoring I and II.**

0520 * PEER TUTORING II/SPECIAL NEEDS (11, 12) Students learn to interact with and tutor students with disabilities allowing them to learn teaching and behavior management techniques and terminology. Throughout the semester, students demonstrate knowledge of the following: a) causes of disabilities; b) values and issues related to the integration of students with disabilities in the school and community; c) career options in the field of special education; d) teaching and behavior management techniques and terminology. **Requirement – Completion of application. A student may earn a maximum of 4 credits in Peer Tutoring I and II.**

0502 ** CADET TEACHING I & II (12) The objective of Cadet Teaching is to interest and encourage college-bound students to enter the teaching profession. This first semester course offers five weeks of in-class preparation and thirteen weeks of field experience. The course gives students information about a career in education as well as providing actual teaching experience in an elementary or intermediate school classroom. Students will be selected on the basis of an application and an interview. Students who have a desire to choose a career working with youth should apply. **Requirement - Completed application and interview; students need their own transportation; students may not take the second semester without successfully completing the first semester.**

0560 ## THEORY OF KNOWLEDGE, IB, SPRING SEMESTER (11) Theory of Knowledge is one of the culminating educational experiences for all International Baccalaureate students. It is a yearlong course, taught in the spring of junior year and then concluding in the fall of senior year. Beginning with the questions, "What do we know?" and "How do we judge the validity of what we know?" students will be able to link the knowledge gained in the various disciplines. The ultimate goal is to develop a respect and tolerance for others and to learn skills to better understand ourselves and the world around us. The first semester of this course will explore our ways of knowing: perception, language, reason and emotions, and the global nature of knowledge. Throughout the course is an examination of linkages between the areas of knowledge, and problems of knowledge, such as uncertainties and biases. The students will develop an essay on prescribed, universal questions in knowledge and the process of knowing. **This course is required for all IB candidates, and is open as an elective for juniors. Requirement – Accepted into the IB program or must have completed AP Human Geography, AP World History, or AP US History and be concurrently enrolled in AP Literature, AP Language and Composition or IB Language. Recommendations - For non-IB students, 3.4 GPA**

0560 ## THEORY OF KNOWLEDGE, IB, FALL SEMESTER (12) This is the second semester of a year-long course that is the center of the IB Program. The areas of knowledge: mathematics, the natural sciences, the human sciences, history, the arts and ethics will be investigated. This course is experiential, while academically rigorous. Critical thinking will be emphasized, as well as the skills of communication. Students will be encouraged to be risk takers, to think outside of conventional approaches. During this semester, students will prepare a presentation to show their understanding of one aspect of knowledge. **This course is required for all IB candidates and is open as an elective for seniors. . Requirement – The first semester of Theory of Knowledge**

4146 * DANCE PERFORMANCE (9, 10, 11, 12) This course is open to all students. Activities utilize a wide variety of materials and experiences and are designed to develop techniques appropriate with Jazz, Hip-Hop, Tap, Ballet, and Ballroom, including individual and group instruction in performance repertoire and skills. Students are able to describe, analyze, interpret, and judge live and recorded dance performances of professional dancers and companies in the genre. Students become aware of the vocational and avocational opportunities in dance. Students will be required to participate in performance opportunities outside of the school day that support and extend the learning in the classroom. **If taken in the second semester, this course is designed to develop techniques appropriate with Ballroom and Rhythm dancing.** Students will need proper dance attire and shoes but will not be turned away due to financial reasons.

4142 * DANCE II/DANCE CHOREOGRAPHY (10, 11, 12) Classroom learning activities in Dance II will be sequential from Dance I. A wide variety of materials and experiences will be used in order to provide students with the knowledge, skills, and appreciation of the multi-styled and multicultural dance expressions. Students experience and learn to use appropriate terminology to describe, analyze, interpret, and critique dance compositions by professional individuals or companies. **Requirement – Dance I,** Students will need proper dance attire and shoes but will not be turned away due to financial reasons.

1084 MASS MEDIA/TELEVISION PRODUCTION 1-2 (9, 10, 11, 12) This yearlong class will offer students the opportunity to experience all aspects of crafting a television program from an introductory level. Students will learn all aspects of television production, from history to writing telecasts, understanding and utilizing the latest technology for production and post-production, and learning and demonstrating on-camera performance skills. This class offers a unique opportunity to explore all phases of modern, successful telecommunication arena through hands-on participation. The final products may include student-generated announcements for the building, special projects and possibly expansion to a variety of community programs. **Requirement - Completion of application, This course does not count as an English credit**

1084 MASS MEDIA/TELEVISION PRODUCTION 3-4 (10, 11, 12) This course is the second year study of television production which offers students the opportunity to experience all aspects of crafting a television program from an intermediate level. Students will begin to fine-tune and perfect television production skills learned in the first year of study. The final products may include student-generated announcements for the building, special projects and possibly expansion to a variety of community programs, all from a more advanced level than the previous course. **Requirement – Successful completion of Mass Media/TV Production 1-2 with a "C" or higher and teacher recommendation**

1084 MASS MEDIA/TELEVISION PRODUCTION 5-6 (11, 12) This course is the third year study of television production and will offer students the opportunity to experience all aspects of crafting a television program from an advanced level. Students will perfect television production skills learned in the first two years of study and apply them at a professional level. The final products may include student-generated announcements for the building, special projects and possibly expansion to a variety of community programs, all from an advanced level. **Requirement – Successful completion of Mass Media/TV Production 3-4 with a "C" or higher and teacher recommendation**

1084 MASS MEDIA/ADVANCED TV PRODUCTION/COMMUNITY RELATIONS (11, 12) This course is designed as an independent study of television production and will offer students the opportunity to experience all aspects of crafting a television program from an advanced level. Students will perfect television production skills learned in the first two years of study and apply them at a professional level. The final products may include implementation of television production skills in traditional classrooms, special projects and expansion to a variety of school ad community programs, all from an advanced level. **Requirement – Successful completion of Mass Media/TV Production 1-2 and 3-4 and teacher recommendation**

1076 * SPEECH I (9, 10, 11, 12) This course is designed for students who want a more in-depth study of oral communication than is offered in the core English curriculum and is highly recommended for college bound students. The course focuses on the art of effective critical listening and the writing and performing of informative, persuasive, impromptu and interpretive speeches. Reading and analyzing a variety of literary genres is an integral part of composing all performances.

1078 ** ADVANCED SPEECH AND COMMUNICATION (10, 11, 12) Advanced Speech continues with the skills learned in Speech. Major emphasis is given to producing of formal speeches and oral interpretation. The course focuses on leadership development, listening skills, oral interpretation, parliamentary procedures, research methods, and oral debate. Special attention is given to creating competitive speeches, interpretation and debate. **Requirement – Speech I or Theatre Arts I or instructor's permission, This course does not meet the Speech requirement for the diploma options and counts as an elective not an English credit.**

1124 *# ACP SPEECH (12)This dual credit course offered through Indiana University focuses on the theory and practice of public speaking, training in thought processes necessary to organize speech content, and analysis of components of effective delivery and language. Course objectives include familiarizing students with the basic principles of effective and ethical public speaking, developing critical listening skills, and applying organizational and delivery techniques in writing and presenting a speech. Students may take this course for S121 credit through Indiana University or take the course for high school credit only**. IU requirements for admission to this course – GPA 2.7 or higher on a 4.0 scale within a college preparatory curriculum. Tuition is approximately $75.00 plus fees for a college textbook. IU's policy with regard to submission of assignments will supersede the FHS English Department policy on late assignments. Recommendation for non-ACP credit - A "C+" average in academic classes, a "B-" average in English classes or a "C+" with the recommendation of junior English teacher, Requirement – B average in English courses**

MUSIC

4166 BEGINNING ORCHESTRA (9, 10, 11, 12) Beginning Orchestra students are provided with a balanced comprehensive study of music through the orchestra, which develops skills in the psychomotor, cognitive, and affective domains. Experiences include, but are not limited to, improvising, conducting, playing by ear, and sight-reading. Students develop the ability to understand and convey the composer's intent in order to connect the performer with the audience. Opportunities are provided for students to experience live performances by professionals, during and outside of the school day. Time outside of the school day may be scheduled for dress rehearsals and performances. A limited number of public performances may serve as a culmination of activities, outside of the school day, that support and extend learning in the classroom. **Requirement - Permission of the instructor**

4172 INTERMEDIATE ORCHESTRA (9, 10, 11, 12) This performing ensemble is open to all instrumentalists performing on a string instrument. This ensemble performs a wide variety of music during the year, performing several concerts. Students develop the ability to understand and convey the composer's intent in order to connect the performer with the audience. Students are provided with opportunities to experience live performances by professionals, during and outside of the school day. Students must perform, with expression and technical accuracy, a large and varied repertoire of orchestra literature. Evaluation of music and music performances is included. **Requirement - Audition or director's consent**

4174 ADVANCED ORCHESTRA (10, 11, 12) Students taking this course are provided with a balanced comprehensive study of music through the orchestra, which is designed to enable students to connect, examine, imagine, define, try, extend, refine, and integrate music study into other subject areas. Students develop the ability to understand and convey the composer's intent in order to connect the performer with the audience. Students are also provided with opportunities to experience live performances by professionals during and outside of the school day. Time outside of the school day may be scheduled for dress rehearsals and performances. A limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students must participate in performance opportunities, outside of the school day, that support and extend learning in the classroom. **Requirement - Audition or instructor's consent**

4160 BEGINNING CONCERT BAND – Varsity Band (9, 10, 11, 12) This large performing ensemble is open to all instrumentalists. Participation is by audition only. Students perform a wide variety of music during the year, performing several concerts. Students develop the ability to understand and convey the composer's intent in order to connect the performer with the audience. Students also have the opportunity to experience live performances by professionals during and outside of the school day. Students are required to participate in performance opportunities, outside of the school day, that support and extend learning in the classroom. Away/overnight trips are possible. All costs may be defrayed through fundraising opportunities. **Requirement – Audition**

4160 BEGINNING CONCERT BAND – Concert Band (9, 10, 11, 12) This large performing ensemble is open to all instrumentalists. Participation is by audition only. Students perform a wide variety of music during the year, performing several concerts. Students develop the ability to understand and convey the composer's intent in order to connect the performer with the audience. Students also have the opportunity to experience live performances by professionals during and outside of the school day. Students are required to participate in performance opportunities, outside of the school day, that support and extend learning in the classroom. Away/overnight trips are possible. All costs may be defrayed through fundraising opportunities. **Requirement - Audition**

4168 INTERMEDIATE CONCERT BAND – Symphonic Band (9, 10, 11, 12) This large performing ensemble is open to all instrumentalists. Participation is by audition only. Students perform a wide variety of music during the year, performing several concerts. Students develop the ability to understand and convey the composer's intent in order to connect the performer with the audience. Students also have opportunities to experience live performances by professionals during and outside of the school day. Students perform, with expression and technical accuracy, a large and varied repertoire of concert band literature. Evaluation of music and music performances is included. Some overnight trips are possible. All additional costs may be defrayed through fundraising opportunities. **Requirement – Audition**

4170 ADVANCED CONCERT BAND - Wind Ensemble (10, 11, 12) The Advanced Concert Band is open to all instrumentalists. Participation is by audition only. Students perform a wide variety of music during the year, performing several concerts. Ensemble and solo activities are designed to develop elements of musicianship including, but not limited to: (1) tone production, (2) technical skills, (3) intonation, (4) music reading skills, (5) listening skills, (6) analyzing music, and (7) studying historically significant styles of literature. Experiences include, but are not limited to, improvising, conducting, playing by ear, and sight-reading. Students develop the ability to understand and convey the composer's intent in order to connect the performer with the audience. Students also have the opportunity to experience live performances by professionals during and outside of the school day. Band repertoire will be of the highest caliber. Mastery of advanced wind band technique must be evident. Areas of refinement consist of advanced techniques including, but not limited to: (1) intonation, (2) balance and blend, (3) breathing, (4) tone production, (5) tone quality, (6) technique, (7) rhythm, (8) sight-reading, and (9) critical listening skills. Evaluation of music and music performances is included. Away/overnight trips are possible. All costs are defrayed through fundraising opportunities. **Requirement - Audition**

4204 PIANO AND ELECTRONIC KEYBOARD - BEGINNING (9, 10, 11, 12) This course is open to all students who desire to learn basic piano/keyboard skills. Students will learn to use proper keyboard fingerings, to read simple melody lines, to play major and minor scales, and to harmonize basic melodies with simple chords. Instruction is designed so that students are enabled to connect, examine, imagine, define, try, extend, refine, and integrate music study into other subject areas. Students: (1) perform with proper posture, hand position, fingering, rhythm, and articulation; (2) compose and improvise melodic and harmonic material; (3) create and perform simple accompaniments; (4) listen to, analyze, sight-read, and study the literature performed; (5) study the elements of music as exemplified in a variety of styles; and (6) make interpretive decisions.

4204 PIANO AND ELECTRONIC KEYBOARD - INTERMEDIATE (10, 11, 12) Intermediate Class Piano provides continuing instruction for students who have successfully completed Beginning Class Piano or have had previous instruction in piano and wish to further their knowledge of piano skills. Students will extend the concepts learned in Beginning Piano. Students will continue to develop: sight-reading skills, their knowledge of major and minor scales, aural identification of piano literature, styles, composers, and performers. **Requirement - Beginning Piano and/or permission of instructor**

4208 * MUSIC THEORY AND COMPOSITION (10, 11, 12) Students taking this course develop skills in the analysis of music and theoretical concepts. Students: (1) develop ear training and dictation skills, (2) compose works that illustrate mastered concepts, (3) understand harmonic structures and analysis, (4) understand modes and scales, (5) study a wide variety of musical styles, (6) study traditional and nontraditional music notation and sound sources as tools for musical composition, and (7) receive detailed instruction in other basic elements of music. Students have the opportunity to experience live performances, by professionals, during and outside of the school day.

4210 ##* AP/IB MUSIC THEORY (10, 11, 12) This course is designed for advanced music students interested in further study in college. This course will focus on mastering skills in and knowledge of advanced musical concepts and will therefore require a high level of musicianship as well as sufficient prior knowledge of music theory and history. This course would allow for the many students at FHS considering the study of music in college a way to receive college credit towards their degree. **Requirement - Music Theory I, "C" or above recommended. Students enrolling in this course are encouraged to take Music History as well.**

4206 * MUSIC HISTORY AND APPRECIATION (10, 11, 12) Students taking this course receive instruction designed to explore music and major musical style periods through understanding music in relation to both Western and Non-Western history and culture. Activities include but are not limited to: (1) listening to, analyzing, and describing music; (2) evaluating music and music performances; and (3) understanding relationships between music and the other arts, as well as disciplines outside of the arts.

CHOIR

4182 BEGINNING CHORUS/STATESMEN (9, 10, 11, 12) This class is open to any **male** student that is interested in singing for enjoyment. Students taking Beginning Chorus develop musicianship and specific performance skills through ensemble and solo singing. A limited number of public performances may serve as a culmination of daily rehearsal and music goals. Students must participate in performance opportunities, outside of the school day, that support and extend learning in the classroom. This choir experience stresses the study of vocal technique, sight reading, and the fundamentals of music while performing on a limited basis. A varied repertoire of concert, sacred, pop, jazz, contemporary, and musical theatre vocal literature will be studied and presented. **Each member must pay a costume rental fee, but no student is denied membership because of financial reasons.**

4182 BEGINNING CHORUS/SOTTO VOCÉ (9, 10, 11, 12) This class is open to any **female** student that is interested in singing for enjoyment. Students taking Beginning Chorus develop musicianship and specific performance skills through ensemble and solo singing. Beginning Chorus provides instruction in creating, performing, conducting, listening to, and analyzing, in addition to focusing on the specific subject matter. Students develop the ability to understand and convey the composer's intent in order to connect the performer with the audience. Students have the opportunity to experience live performances by professionals during and outside of the school day. A limited number of public performances may serve as a culmination of daily rehearsal and music goals. Students must participate in performance opportunities, outside of the school day, that support and extend learning in the classroom. This choir experience stresses the study of vocal technique, sight reading, and the fundamentals of music while performing on a limited basis. A varied repertoire of concert, sacred, pop, jazz, contemporary, and musical theatre vocal literature will be studied and presented. **Each member must pay a costume rental fee, but no student is denied membership because of financial reasons.**

4186 INTERMEDIATE CHORUS/Silver Singers (10, 11, 12) This class is open to any student by audition or instructor's recommendation. This select ensemble performs choral literature of varying styles, historical periods and cultures, to the highest degree of proficiency possible. Instruction is designed to enable students to connect, examine, imagine, define, try, extend, refine, and integrate music study into other subject areas. This class provides instruction in creating, performing, conducting, listening to, and analyzing, in addition to focusing on the specific subject matter. Students develop the ability to understand and convey the composer's intent in order to connect the performer with the audience. Additional emphasis is placed on sight-reading, critical listening skills, and vocal techniques. Any performance opportunities outside the classroom, either as a solo ensemble or as a group participant, will be at the discretion of the Director(s). **Requirement - Audition or director's consent. Each member must purchase an outfit at his or her expense, but no student is denied membership because of financial reasons.**

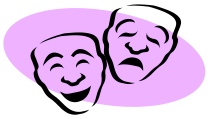
4186 INTERMEDIATE CHORUS/Silver Cantus (10, 11, 12) This class is open to any female student by audition or instructor's recommendation. This select ensemble performs choral literature of varying styles, historical periods and cultures, to the highest degree of proficiency possible. This course provides instructions in creating, performing, conducting, listening to, and analyzing, in addition to focusing on the specific subject matter. Students develop the ability to understand and convey the composer's intent in order to connect the performer with the audience. Additional emphasis is placed on sight-reading, critical listening skills, and vocal techniques. Any performance opportunities outside the classroom, either as solo ensemble or as a group participant, will be at the discretion of the directors.

4188 ADVANCED CHORUS/Silver Streak (10, 11, 12) This class is open to any student by audition only. This select ensemble performs choral literature of varying styles, historical periods and cultures, to the highest degree of proficiency possible, specializing in the stylistic performance of American popular music and that of the musical, complimented by choreography as well as concert choir repertoire spanning all musical periods from the Renaissance to Contemporary. Students develop musicianship and specific performance skills through ensemble and solo singing. Instruction is designed so that students are able to connect, examine, imagine, define, try, extend, refine, and integrate music study into other subject areas. This course provides instruction in creating, performing, conducting, listening to, and analyzing, in addition to focusing on the specific subject matter. Students develop the ability to understand and convey the composer's intent in order to connect the performer with the audience. Students have the opportunity to work with professional clinicians during and outside of the school day. Mastery of basic choral technique must be evident. Areas of refinement include a cappella singing, vocal jazz, vocal performance, sight-reading, and critical thinking skills. **As a major performance ensemble, members are expected to attend practices once a week and all extra rehearsals and performances for which academic credit is given. Requirement—Audition. Each member must pay a contribution fee, but no student is denied membership because of financial reasons.**

4188 ADVANCED CHORUS/Silver Sound (10, 11, 12) This class is open to any **female** student by audition only. This select ensemble performs choral literature of varying styles, historical periods and cultures, to the highest degree of proficiency possible, specializing in the stylistic performance of American popular music and that of the musical, complimented by choreography as well as concert choir repertoire spanning all musical periods from the Renaissance to Contemporary. Students develop musicianship and specific performance skills through ensemble and solo singing. Instruction is designed so that students are able to connect, examine, imagine, define, try, extend, refine, and integrate music study into other subject areas. Areas of refinement include a cappella singing, vocal jazz, vocal performance, sight-reading, and critical thinking skills. **As a major performance ensemble, members are expected to attend practices once a week and all extra rehearsals and performances for which academic credit is given. Requirement—Audition. Each member must pay a contribution fee, but no student is denied membership because of financial reasons.**

4188 ADVANCED CHORUS/Silver Classic (10, 11, 12) This class is open to any student by audition only. This select ensemble performs choral literature of varying historical periods and cultures, to the highest degree of proficiency possible, specializing in a cappella music and the Madrigal style with some vocal jazz. Students develop musicianship and specific performance skills through ensemble and solo singing. Instruction is designed so that students are able to connect, examine, imagine, define, try, extend, refine, and integrate music study into other subject areas. Areas of refinement include a cappella singing, vocal performance, sight-reading, and critical thinking skills. As a major performance ensemble, members are expected to attend all extra rehearsals and performances for which academic credit is given. **Requirement—Extensive Audition, previously enrolled in a choir course. Each member must pay a user fee, but no student is denied membership because of financial reasons.**

THEATRE



4244 * TECHNICAL THEATRE (9, 10, 11, 12) Technical Theatre instruction combines the theories of design and stage craft with the construction and operation of the various elements of technical theatre. Students are provided with opportunities to: (1) develop stage craft skills; (2) learn various techniques in scenery, lighting, sound, properties, costumes, and makeup; (3) practice theatre safety; and (4) learn effective stage management, business plans, and promotional techniques. Students are made aware of career opportunities in technical theatre. They also continue to analyze and evaluate scripts and live theatre performances so that they learn to determine appropriate technical requirements for a variety of theatrical works.

4252 * TECHNICAL THEATRE II (9, 10, 11, 12) This course is broken into three units; advanced construction, sound systems and lighting design. Students will gain the basic knowledge of live sound reinforcement, to include the microphone, amplifiers, speakers, signal path and the sound mixer. The students will have hands on experience with the auditorium's sound equipment. The unit on lighting teaches the students about theatre lighting instruments. This includes how to hang and focus the fixture, color and lighting composition, basic electricity, and light board operation. **Requirement – Technical Theatre**

4242 * THEATRE ARTS/ACTING I (9, 10, 11, 12) Instruction in this course enables students to: (1) improvise and write plays or scenes; (2) imaginatively express thought, feelings, moods, and characters; and (3) apply techniques involving voice, gesture, facial expression, and body movement to reproduce the subtleties of language and voice inflection in conveying emotion and meaning. Students are introduced to warm-up activities for body and voice, including mime activities. Students develop skills enabling them to speak clearly and expressively with (1) appropriate articulation, (2) pronunciation, (3) volume, (4) stress, (5) rate, (6) pitch, (7) inflection, and (8) intonation. They also refine their abilities to collaborate on performances, and they learn to constructively evaluate their own and others' efforts. Study also includes activities from a variety of historical and cultural contexts. Students develop critical thinking skills through studying examples of theatre criticism followed by analyzing and evaluating live performances. **Recommendation – An overall "C" average**

4240 * ADVANCED THEATRE ARTS/ACTING II (9, 10, 11, 12) Instruction in this course builds upon the skills developed in the Theatre Arts course. Activities enable students to:

- improvise dialogue which produces characterizations in a variety of settings and forms
- identify the physical, social, and psychological dimensions and qualities of characters in texts of plays
- create consistent characters from a variety of theatrical works, either in class or in informal productions, demonstrating effective management of emotions as an individual and as a character
- construct personal meanings from a variety of performances, including the self-evaluation of personal work, which leads to further development of various skills and abilities
- write scripts for theatre
- demonstrate analytical skills by explaining roles, comparing various forms of artistic expression and interpretation, and discussing their relationship to cultural values and historical contexts
- understand the interrelationships among the functions of playwrights, directors, actors, designers, producers, and technicians
- refine interpersonal and collaborative skills by identifying and resolving conflicts effectively

This course also allows students to expand upon their ability to make artistic decisions and evaluations by discussing and critiquing live performances. Examination of career opportunities includes instruction in the auditioning and interviewing processes. **Requirement - "C" average in Theatre Arts**

4240 * ADVANCED THEATRE ARTS/ACTING III (10, 11, 12) This one semester course builds sequentially on skills learned in Acting I and Acting II. Advanced methods of character study and style as well as further study and practice of voice and movement and how the actor reveals characterization through the body. Students will also be exposed to techniques for theatre and television auditions. **Requirement - Acting I and Acting II, with a "B" average recommended**

4240 * ADVANCED THEATRE ARTS/ACTING IV (10, 11, 12) Acting IV is designed for students who might be considering a career in performance or who wish to broaden their repertoire of knowledge for audition purposes. Skills and knowledge acquired in Acting III will be further studied and developed. This course will explore the historical tradition and the repertoire of the theatre. Actors will enact an understanding of these theories through scene workshops. Students will study and perform scripts from different areas of theatre history, which will exemplify varying character style. **Requirement - Acting I, Acting II, and Acting III, with a "B average recommended**

PHYSICAL EDUCATION AND HEALTH

The mission of the Physical Education and Health Department at Fishers High School is to provide opportunities to develop skills, knowledge, and awareness for all students through basic required courses as well as a variety of elective course offerings. The overall aim is to help students develop lifelong habits that include regular, vigorous exercise and activity, as well as an understanding that health and well being is an individual and ongoing responsibility.

3506 * HEALTH AND WELLNESS EDUCATION (9, 10, 11, 12) Health Education provides the basis for continued methods of developing knowledge, concepts, skills, behaviors, and attitudes related to student health and well-being. This course includes the major content areas in a planned, sequential, comprehensive health education curriculum. The ten areas of study include: (1) Growth and Development; (2) Mental and Emotional Health; (3) Community and Environmental Health; (4) Nutrition; (5) Family Life; (6) Consumer Health; (7) Personal Health; (8) Alcohol, Tobacco, and Other Drugs; (9) Intentional and Unintentional Injury; and (10) Health Promotion and Disease Prevention. Students are provided with opportunities to explore the effect of health behaviors on an individual's quality of life. This course assists students in understanding that health is a lifetime commitment by analyzing individual risk factors and health decisions that promote health and prevent disease. Students are also encouraged to assume individual responsibility for becoming competent health consumers. A variety of instructional strategies, including technology, are used to further develop health literacy.

3542 * PHYSICAL EDUCATION I (9, 10, 11, 12) This course is required for the freshman year. Physical Education I places an emphasis on health-related fitness and developing the skills and habits necessary for a lifetime of activity. This program includes skill development and the application of rules and strategies of complex difficulty in the following different movement forms: (1) health-related fitness activities (cardio respiratory endurance, muscular strength and endurance, flexibility, and body composition); (2) aerobic exercise; (3) team sports; (4) individual and dual sports; (5) outdoor pursuits; (6) dance; and (7) recreational games; (8) aquatics. Ongoing assessment includes both written and performance-based skill evaluations with a large emphasis placed on class participation. Adaptations will be made when necessary for students whose physical and/or mental handicaps limit their participation in certain activities. **PE I will require completion by the end of Summer School prior to grade 10.**

3544 * PHYSICAL EDUCATION II (9, 10, 11, 12) Physical Education II emphasizes a personal commitment to lifetime activity and fitness for enjoyment, challenge, self-expression, and social interaction. This course provides students with opportunities to achieve and maintain a health-enhancing level of physical fitness and increase their knowledge of fitness concepts with a large emphasis on aquatic activities. It will also include at least three different movement forms without repeating those offered in Physical Education I. Movement forms may include: (1) health-related fitness activities (cardio respiratory endurance, muscular strength and endurance, flexibility, and body composition), (2) aerobic exercise, (3) team sports, (4) individual and dual sports, (5) gymnastics, (6) outdoor pursuits, (7) aquatics, (8) dance, and (9) recreational games. Ongoing assessment includes both written and performance-based skill evaluations with a large emphasis placed on class participation. This course will also include a discussion of related careers. **PE II will require completion by the end of Summer School prior to grade 11.**

3500 ** ADVANCED HEALTH EDUCATION /SPORTS MEDICINE I and II (10, 11, 12) This course is designed for the student who is interested in the medical field and in working as a student-athletic trainer with one of the Fishers HS IHSAA sponsored sports. The student must agree to work with the Fishers HS athletic trainer for a minimum of 6 hours per semester outside of regular class time. **Requirement – Health and an overall "C" average**

3560 ** ELECTIVE PHYSICAL EDUCATION/COED RECREATIONAL GAMES (9, 10, 11, 12) This coeducational course is designed for the student who wishes to be involved in daily physical activity beyond the freshman year. The emphasis is placed on lifetime leisure activities including but not limited to: badminton, ping pong, volleyball, basketball, tennis, and soccer. **Requirement - Physical Education I and II with a "C" average recommended. A maximum of 6 total credits can be earned in elective physical education courses.**

3560 ** ELECTIVE PHYSICAL EDUCATION/LIFETIME FITNESS THROUGH PHYSICAL EDUCATION (9, 10, 11, 12) This course is designed for students with limited exercise and workout experience and various fitness levels. Students will learn proper weight training technique and fundamentals and apply them in a full body workout three days per week. Students will also work on cardiovascular fitness through a progressive running program and aerobic exercise as well as train to improve their speed, agility, and explosive power. The class is designed for students who want to improve their general strength, fitness, and body image. Students will be challenged but allowed to progress at a pace and intensity level appropriate to their conditioning level. **Requirement - Physical Education I and II with a "C" average recommended. A maximum of 6 total credits can be earned in elective physical education courses.**

3560 ** ELECTIVE PHYSICAL EDUCATION/WEIGHT TRAINING (9, 10, 11, 12) This course is designed for students with limited exercise and workout experience and various fitness levels. Students will learn proper weight training technique and fundamentals and apply them in a full body workout three days per week. Students will also work on cardiovascular fitness through a progressive running program and aerobic exercise as well as train to improve their speed, agility, and explosive power. The class is designed for students who want to improve their general strength, fitness, and body image. Students will be challenged but allowed to progress at a pace and intensity level appropriate to their conditioning level. **Requirement - Physical Education I and II with a "C" average recommended. A maximum of 6 total credits can be earned in elective physical education courses.**

3560 ** ELECTIVE MEN'S PHYSICAL EDUCATION/ADVANCED PHYSICAL CONDITIONING (9, 10, 11, 12) This course is designed for Fishers HS male athletes involved in IHSAA sponsored sports. Instruction will focus on the development of strength, explosive power, speed, and agility. This course is for the motivated student-athlete who is serious about improving his/her strength, explosive power, speed, and agility through a strenuous training program involving weight training, plyometrics, and speed development drills. **Requirement - Physical Education I and II with a "C" average recommended. A maximum of 6 total credits can be earned in elective physical education courses.**

3560 ** ELECTIVE WOMEN'S PHYSICAL EDUCATION/ADVANCED PHYSICAL CONDITIONING (9, 10, 11, 12) This course is designed for Fishers HS female athletes involved in IHSAA sponsored sports. Instruction will focus on the development of strength, explosive power, speed, and agility. This course is for the motivated student-athlete who is serious about improving his/her strength, explosive power, speed, and agility through a strenuous training program involving weight training, plyometrics, and speed development drills. **Requirement - Physical Education I and II with a "C" average recommended. A maximum of 6 total credits can be earned in elective physical education courses.**

3560 * ELECTIVE PHYSICAL EDUCATION/ADVANCED WATER RESCUE (9, 10, 11, 12) This course will cover the Red Cross Advanced Water Rescue curriculum and provide an opportunity for certification. This certification is necessary to be employed as a lifeguard. Individuals needing to renew their certification could do so through this class. **Requirement – Physical Education I and II, Student must be able to swim 500 yards. Permission of the instructor, A maximum of 6 total credits can be earned in elective physical education courses.**

ALTERNATE PHYSICAL EDUCATION CREDIT

Hamilton Southeastern Schools is offering an alternative option for 9th and 10th graders to earn one of the two Physical Education credits. Students participating in HSE sports recognized by IHSAA along with FHS cheerleading, FHS dance, and FHS marching band are eligible to participate in this option. Students will need to complete three components to earn the Physical Education credit – coach's form, fitness test, written tests. If you are interested in learning more about the requirements please check with your counselor.

OR

Any Hamilton Southeastern Schools student may also take Physical Education credits through CIESC's On-line Academy. The student will pay the cost of the course, and the high school will recognize the course for Physical Education credit. For more information contact your counselor. Students are encouraged to complete these credits by the end of the summer prior to grade 11.

The Science Department seeks to provide students with a science foundation that will allow students to function as responsible and contributing members of society by fostering an environment where students will expand their knowledge, skills, and experiences in the various science disciplines.
In support of its mission, the Science Department is committed to provide students:

- **a learning community which ensures students of varying age, ethnicity, culture, learning styles, and socio-economic status are equally served**
- **exceptional programs and courses that provide experiences that support research, rigor, and scholarship and will facilitate the making of informed decisions regarding issues concerning science, technology, and society**
- **an environment that promotes a lifetime of critical inquiry and learning as well as an awareness of the manner in which science and technology affect the quality of their world**

3024 BIOLOGY I (9, 10, 11, 12) This is a study of plant life, genetics, vertebrates, invertebrates, microbiology, evolution, and ecology with emphasis on laboratory techniques and critical thinking. Students will explore the characteristics of living things, the nature and structure of life on earth and the chemical principles that underlie the processes of life. Students gain insight into the diversity of life by participating in regular laboratory activities, cooperative learning experiences, possible dissection, and research activities as well as class discussions on various current topics such as global warming.

3024 # BIOLOGY I HONORS (9, 10, 11, 12) This is an accelerated study of plant life, genetics, vertebrates, invertebrates, microbiology, evolution, and ecology with emphasis on laboratory techniques and critical thinking. Regular laboratory investigations, possibly including dissection will be stressed. Honors Biology is designed for the student with a strong interest and background in science who, perhaps, will be pursuing further study in some area of life science in the future. **Requirement – Recommendation from 8th grade teacher, Credit will not be given for both Honors Biology and Biology.**

5218 PRINCIPLES OF BIOMEDICAL SCIENCES (9, 10) This course provides an introduction to the biomedical sciences through "hands-on" projects and problems. Students investigate the human body systems and various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. Key biological concepts including: homeostasis, metabolism, inheritance of traits, feedback systems, and defense against disease are embedded in the curriculum. Engineering principles including: the design process, feedback loops, fluid dynamics, and the relationship of structure to function are incorporated in the curriculum where appropriate. The course is designed to provide an overview of all the courses in the Biomedical Sciences program and to lay the scientific foundation necessary for student success in the subsequent courses. This course counts toward the CORE 40, AHD science credit. **Requirement – Completion of Algebra I and completion of Biology or Honors Biology or concurrent enrollment**

5216 HUMAN BODY SYSTEMS (10, 11) This course is the second course after Principles of Biomedical Sciences. Students examine the processes, structures, and interactions of the human body systems to learn how they work together to maintain homeostasis (internal balance) and good health. Hands-on projects include designing experiments, investigating the structures and functions of body systems, and using data acquisition software to monitor body functions such as muscle movement, reflex and voluntary actions, and respiratory operation. This course counts as CORE 40, AHD general elective. **Requirement - Completion or concurrent enrollment in Chemistry I or Honors Chemistry I**

NOTE - Beginning with the Class of 2012 students who pass both years of Principles of Biomedical Science and Human Body Systems will have fulfilled the requirements for Health and Wellness. No grade and no credit will be earned for the Health course.

5217 MEDICAL INTERVENTION (11, 12) In the Medical Interventions™ course, students will investigate the variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the lives of a fictitious family. A "How-To" manual for maintaining overall health and homeostasis in the body, the course will explore how to prevent and fight infection, how to screen and evaluate the code in our DNA, how to prevent, diagnose and treat cancer, and how to prevail when the organs of the body begin to fail. Through these scenarios, students will be exposed to the wide range of interventions related to Immunology, Surgery, Genetics, Pharmacology, Medical Devices, and Diagnostics. Each family case scenario will introduce multiple types of interventions and will reinforce concepts learned in the previous two courses, as well as present new content. Interventions may range from simple diagnostic tests to treatment of complex diseases and disorders. These interventions will be showcased across the generations of the family and will provide a look at the past, present, and future of biomedical science. Lifestyle choices and preventive measures are emphasized throughout the course as well as the important role scientific thinking and engineering design play in the development of interventions of the future. This course counts as CORE 40, AHD general elective. **Requirement – successful completion of Principals of Biomedical Sciences and Human Body Systems, Completion or concurrent enrollment in Chemistry I or Honors Chemistry I, If the student has completed Chemistry 1 or Honors Chemistry 1, concurrent enrollment in an additional Core 40 science course is required.**

5219 BIOMEDICAL INNOVATION (11, 12) In Biomedical Innovation™, the fourth course of the PLTW Biomedical Science Program, students will use the knowledge they have to design and conduct experiments related to the diagnosis, treatment, and prevention of disease or illness. They will apply the knowledge and skills learned in the previous courses; Principles of Biomedical Science, Human Body Systems, and Medical Interventions, to answer questions or to solve problems related to the biomedical sciences. They may work with a mentor or have an advisor from a university, hospital, physician's office, or industry during the second semester as they complete their work. Students will be expected to make a presentation of their work to an adult audience that may include representatives from the local community or the school's PLTW® partnership team. This course counts as CORE 40, AHD general elective. **Requirement – successful completion of Principals of Biomedical Sciences, Human Body Systems, and Medical Interventions. Concurrent enrollment in an additional Core 40 science class is required. Special permission may be sought to allow a student to take Medical Interventions and Biomedical Innovation concurrently.**

3044 EARTH AND SPACE SCIENCE (9, 10, 11) This course will provide students with the basic knowledge of earth and space science as it relates to them and their own range of experiences. The course will also develop the students' abilities to appreciate the basic concepts in earth and space science through discussion, technology, and hands-on laboratory experiences. Students will be exposed to geology, meteorology, and astronomy, as well as discussions and activities concerning natural disasters, environmental influences, and space exploration. **Seniors may take this course with counselor approval only.**

3108 INTEGRATED CHEMISTRY PHYSICS (ICP) (10, 11, 12) Integrated Chemistry Physics (ICP) is designed to serve as an introduction to future coursework in either chemistry and/or physics while ensuring a mastery of the basics of each discipline. Physics topics, which will be covered during first semester, include motion, forces, work, power, energy, sound, and electricity. Chemistry topics, which will be covered during the second semester, include the periodic table, nomenclature, chemical reactions. Students may go on to earn additional physical science credits by taking physics and/or chemistry courses. **This course is not available for students who have previously earned credit in Chemistry or Physics. One semester of ICP can not be used to make up for a failed semester of Chemistry or Physics. Requirement – Algebra I**

3064 CHEMISTRY I (10, 11, 12) This course is designed as an introduction to all areas of chemistry, including the basic properties of elements and compounds, relationships between matter and energy, the structure and function of atoms, and their interactions in reactions. Students have the opportunity to learn about the history as well as theoretical and practical aspects of chemistry. Hands-on laboratory experience is paired with theoretical and mathematical solutions to chemical problems. **Requirement – Algebra I, Recommendation – A "B" average in Algebra I**

3064 # CHEMISTRY I - HONORS (10, 11, 12) This course is a fast-paced survey of the states of matter, the organization and properties of the elements, behavior and interaction of elements and compounds, and the relationships between energy and matter. Students will be expected to be very competent in algebraic manipulations. Higher-level thinking will be stressed through the use of laboratory investigations. Students will be expected to complete formal lab reports. Success in Honors Biology does not necessarily predict success in this course. This course stresses mathematical applications. **Requirement – Algebra I and Geometry, Recommendation – A "B" average in Honors Geometry or an "A-" average in Geometry. Credit will not be given for both Honors Chemistry and Chemistry.**

3084 PHYSICS I (10, 11, 12) Physics is the study of matter and energy and their interactions including the study of motion, energy, wave phenomenon, electricity, and nuclear physics. There will be strong emphasis on problem solving and laboratory activities. **Requirement - Algebra I, Geometry, and Algebra II (or concurrent enrollment in Algebra II). Sophomores choosing to take this course must have an "A-" average in Algebra I. Recommendation – Juniors and Seniors, completion of Algebra I with a "B" average.**

3098 # HONORS IB PHYSICS SL (10,11,12) This course is designed to introduce students to the laws of physics, the experimental skills required in physics, error analysis, and the social and historical aspects of physics as an evolving body of human knowledge about nature. Students will study physical measurement, mechanics, thermal physics, waves, electricity, magnetism, nuclear physics, and quantum physics. Detailed laboratory work is emphasized throughout and requires individual student designed labs, research papers and experimental projects. The willingness to complete assignments outside of class and a solid foundation in algebra is recommended. This course is an excellent preparation for a college physics course. **Requirement – Algebra I, Geometry, Algebra II and Pre-Calculus (or concurrent enrollment in Pre-Calculus), Recommendation – A "B" average in Honors Algebra II or an "A-" average in Algebra II, Credit will not be given for both IB/Honors Physics and Physics. This course will receive honors weighting.**

5276 ANATOMY/PHYSIOLOGY (10, 11, 12) This two semester course will offer a basic study of human anatomy and physiology. The Human Anatomy/Physiology course focuses on the study of human structure and function. Topics covered include the skeletal and muscular systems and their interactions promoting body support, protection and mobility; the nervous system; cardiovascular system; respiratory system; and digestive system, all of which contribute to the balance of day to day body activities. Laboratory work could include microscopic study of tissues, dissection of specimens, bone study labs, and other physiological labs. **Students who have taken the one semester Human Anatomy/Physiology course may not receive credit for the two semester Human Anatomy/Physiology course. Requirement – Biology or Honors Biology with a "C" or better recommended**

5276 # HONORS ANATOMY/PHYSIOLOGY (10, 11, 12) This two semester course will offer an in-depth study of Human Anatomy/Physiology. Topics covered include: skin, the skeletal and muscular system and their interactions promoting body support, protection and mobility, the nervous system, the cardiovascular system, the respiratory system, and the digestive system, all of which contribute to the balance of day-to-day body activities. Laboratory work may include microscopic study of tissues, dissection of specimens, bone study labs, cardiovascular stress activities, and other physiological labs. This course is the first in the two year program for IB Biology HL students. (However, this course will receive honors weight and not IB weight.) **Students may not receive credit for both Honors Human Anatomy/Physiology and Human Anatomy/Physiology. Requirement – Biology I or Honors Biology I, Recommendation – A "B" average in Biology or a "C" in Honors Biology**

3092 * ADVANCED SCIENCE – ZOOLOGY (10, 11, 12) This one semester biology course will offer an in-depth study of Zoology. This course will involve the study of the structure and bodily functions of invertebrate and vertebrate animals, their habits, where and how they live, their relationship with one another and with their environment, their classification, and many other features. Activities include dissection of various animals, microscope studies, and live animal observations. **Requirement – Biology I or Honors Biology I, Recommendation – A "C" average in Biology I or Honors Biology I.**

3092 * ADVANCED SCIENCE – HUMAN GENETICS (10, 11, 12) This second year biology course will offer a one semester in-depth study of Genetics. Students will study gene inheritance and expression, the pathway from DNA to protein synthesis, cytogenetics, epigenetics, genetic engineering, bioethics, pharmacogenomics, GMO foods, RNAi, forensics, and bioethics. Activities include microscope work, DNA fingerprinting, development of pedigrees, karyotyping, PCR, electrophoresis, and bioethical discussions. Emphasis is placed on the students' practical use of the information, as they become responsible adults. **Requirement – Biology I or Honors Biology I, Recommendation – A "C" average in Biology I or Honors Biology I**

3092 * ADVANCED SCIENCE – MICROBIOLOGY (10, 11, 12) This one semester biology course will offer an in-depth study of Microbiology. In Microbiology, students will study microorganisms such as bacteria, fungi, viruses, and parasites. Other topics include microbe-based diseases, antimicrobial medicine, as well as environmental, industrial, and ecological microbiology. Lab activities include standard staining and culture techniques, microscope work, and antimicrobial testing. **Requirement – Biology I or Honors Biology I, Recommendation - A "C" average in Biology I or Biology I Honors.**

3092 * ADVANCED SCIENCE – BOTANY (10, 11, 12) This one semester biology course offers an in-depth study of botany, the scientific study of plants. This course will follow the evolution of plants from simple to complex organisms, studying plants in their environments, and utilizing the microscope to view their cellular structure. Topics covered include seeds, roots, stems, shoots, leaves and flowers, observing the growth patterns in each. Some major themes of plant community ecology include the study of populations, communities, and biomes, specifically the biomes of Central Indiana. **Requirement – Biology I or Honors Biology I, Recommendation – A "C' average in Biology I or Honors Biology I**

3092 * ADVANCED SCIENCE – ASTRONOMY I (11, 12) This astronomy course is a one semester study of basic principles of astronomy. Topics include: the history of modern astronomy, planetary development, the study of celestial bodies, constellations, stellar evolution, and space explorations. This course incorporates lab investigations, related videos, technology based projects, web quests, and model construction. **Students are not to be concurrently enrolled in Earth and Space Science I.**

3092 * ADVANCED SCIENCE – ASTRONOMY II (11, 12) This astronomy course is a one semester study of principles of astronomy not covered in Astronomy I. Topics include going beyond our solar system to study celestial bodies, stellar evolution, the sun, galaxies, living and working in space and the history of space explorations and NASA's goal to travel to Mars. This course incorporates lab investigations, related videos, technology based projects, web quests, and model construction. **Requirement – Astronomy I, Students are not to be concurrently enrolled in Earth and Space Science**

3072 ## IB/ACP CHEMISTRY (11, 12) This course is designed to be a continuation of Chemistry I, with the further depth associated with a college-level course; it is geared toward students who intend to pursue science or science-related fields as a college major. Students study eleven core topics: stoichiometry, atomic theory, periodicity, bonding, states of matter, energetics, kinetics, equilibrium, acids and bases, oxidation and reduction, and organic chemistry. Optional course topics include medicines and drugs, human biochemistry, environmental chemistry, chemical industries, and fuels and energy. The course will have a strong emphasis on problem solving and laboratory work with reporting. Individual and group research on special topics will highlight the second semester of this course. This course gives students the option to enroll in the Indiana University course C105/C125 in which they may earn 5 hours (1 semester) of college credit. The credit is also transferable to many other colleges. See your counselor for more information and the discounted I.U. tuition costs for this course. This course will fulfill the requirement for IB Chemistry SL. **IU requirements for admission to this course – GPA 2.7 or higher on a 4.0 scale within a college preparatory curriculum. Tuition is approximately $75.00 plus fees for a college textbook. IU's policy with regard to submission of assignments will supersede the FHS English Department policy on late assignments. Requirement – Biology or Honors Biology, Chemistry I or Honors Chemistry and Algebra II, Recommendation – Completion of Chemistry and Algebra II with a "B" average**

3066 CHEMISTRY II (11, 12) This course is designed to be a continuation of Chemistry I. Students will learn by performing experiments, participating in collaborative activities and research, as well as lectures and demonstrations to examine various advanced chemistry principles. Topics include: stoichiometry, thermal dynamics, equilibrium, kinetics, nuclear chemistry, acids/bases and buffers, as well as electrochemistry. There will be strong emphasis on problem solving and laboratory activities. **Requirement – Chemistry I or Honors Chemistry I, Recommendation – A "C" average in Chemistry I**

3020 ## BIOLOGY AP (11, 12) This course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year of college. Topics discussed in the course include; biological chemistry, cells, energy transformations, cellular respiration, molecular genetics, heredity, evolution, taxonomy, surveys of kingdoms. Many laboratory experiences will be conducted. **Requirement - Biology I or Honors Biology I and Chemistry I or Honors Chemistry I, Recommendation – Completion of Biology/Honors Biology and Chemistry/Honors Chemistry with a "B" average**

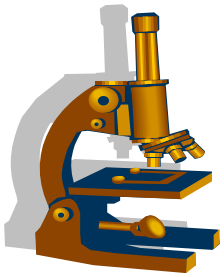
3032 ## IB BIOLOGY HL (12) This course focuses on four major themes: structure and function, universality versus diversity, equilibrium within systems, and evolution. Topics discussed in the course include: statistical analysis, cells, chemistry of life, genetics, ecology and evolution, energy transformations, plant science, and microbes. Many inquiry based experiments will be conducted. In addition, students will have exposure to research and information from scientists around the globe. This course is the second year of IB Biology HL sequence. **Requirement – Honors Anatomy and Physiology, and Chemistry I or Honors Chemistry I. Recommendation – Completion of Honors Anatomy and Physiology and Chemistry/Honors Chemistry with a "B" average.**

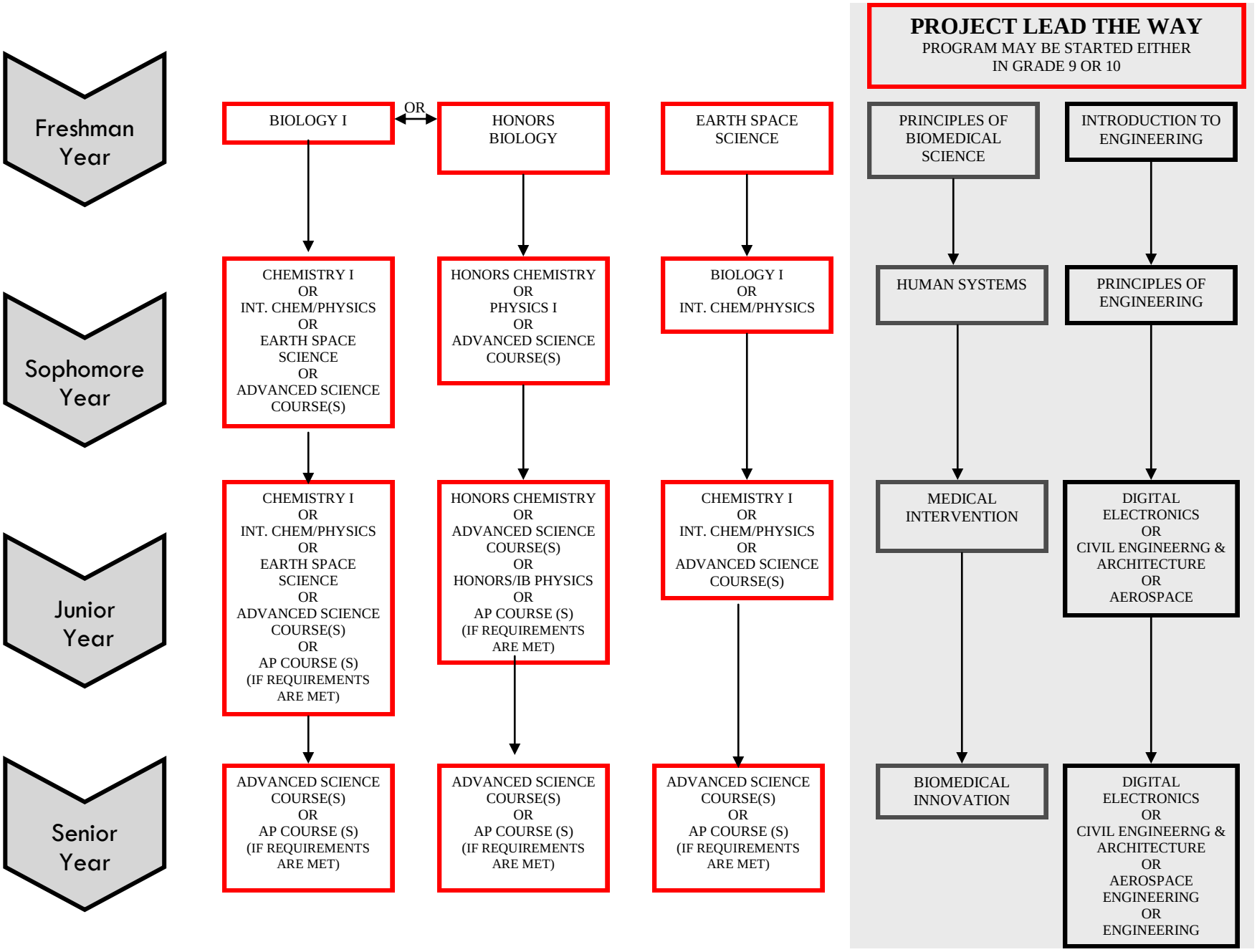
3012 ## ENVIRONMENTAL SCIENCE - AP (11, 12) The AP Environmental Science course is a rigorous, interdisciplinary science class designed to be the equivalent of a one-semester, introductory college environmental science course. The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. **Requirement – Biology I or Honors Biology I, and either Chemistry I or Honors Chemistry I or ICP, Recommendation – A "B" average in both prerequisites**

3060 ## CHEMISTRY – AP (11, 12) The AP Chemistry Course is designed to be the equivalent of the college introductory chemistry course usually taken by chemistry majors during their first year of college. Topics covered in the course include atomic theory, chemical bonding, nuclear chemistry, states of matter, reactions, stoichiometry, thermodynamics, kinetics, electrochemistry, equilibrium, and organic chemistry. Lecture, laboratory activities, problem solving, and student research activities are all components of this course. **Requirement – Chemistry I or Honors Chemistry and Algebra II, Recommendation – Completion of Chemistry and Algebra II with a "B" average**

3080 ## PHYSICS - AP B (11, 12) This course is designed to be the equivalent of a one year introductory, non-calculus based college physics course. Topics covered in Physics I, such as mechanics, energy and momentum, sound, and light are covered in AP Physics in greater depth. Other topics covered include kinetic theory, thermodynamics, electricity and magnetism, nuclear physics, and spatial relativity. The course is intense in its pace and its breadth and depth of material. Lecture, laboratory activities, problem solving and student research are all components of this course. **Requirement - Physics I, Recommendation – a "B" average in Physics I**

3088 ## PHYSICS – AP C (11, 12) is designed as a second year calculus based physics course based on content established by the College Board for the Mechanics and Electricity and Magnetism tests. The mechanics semester provides instruction in: kinematics, Newton's laws of motion, work-energy-power, systems of particles and linear momentum, circular motion and rotation, and oscillations and gravitation. The electricity and magnetism semester provides instruction in: electrostatics, conductors-capacitors-dielectrics, electric circuits, magnetic fields, and electromagnetism. Methods of calculus are used wherever appropriate in formulating physical principles and in applying them to physical problems. The sequence is more intensive and analytic than that in the AP-B Physics course. Strong emphasis is placed on solving a variety of challenging problems; some requiring calculus as well as student based experimental design and execution. **Requirement – Completion of Physics I, Algebra I, Geometry, Algebra II, Pre-Calculus, and completion or concurrent enrollment in AP Calculus AB or Calculus BC**




PROJECT LEAD THE WAY
PROGRAM MAY BE STARTED EITHER IN GRADE 9 OR 10
Freshman Year
Sophomore Year
Junior Year
Senior Year
BIOLOGY I
OR
HONORS BIOLOGY
EARTH SPACE SCIENCE
PRINCIPLES OF BIOMEDICAL SCIENCE
INTRODUCTION TO ENGINEERING
CHEMISTRY I OR INT. CHEM/PHYSICS OR EARTH SPACE SCIENCE OR ADVANCED SCIENCE COURSE(S)
HONORS CHEMISTRY OR PHYSICS I OR ADVANCED SCIENCE COURSE(S)
BIOLOGY I OR INT. CHEM/PHYSICS
HUMAN SYSTEMS
PRINCIPLES OF ENGINEERING
CHEMISTRY I OR INT. CHEM/PHYSICS OR EARTH SPACE SCIENCE OR ADVANCED SCIENCE COURSE(S) OR AP COURSE (S) (IF REQUIREMENTS ARE MET)
HONORS CHEMISTRY OR ADVANCED SCIENCE COURSE(S) OR HONORS/IB PHYSICS OR AP COURSE (S) (IF REQUIREMENTS ARE MET)
CHEMISTRY I OR INT. CHEM/PHYSICS OR ADVANCED SCIENCE COURSE(S)
MEDICAL INTERVENTION
DIGITAL ELECTRONICS OR CIVIL ENGINEERNG & ARCHITECTURE OR AEROSPACE
ADVANCED SCIENCE COURSE(S) OR AP COURSE (S) (IF REQUIREMENTS ARE MET)
ADVANCED SCIENCE COURSE(S) OR AP COURSE (S) (IF REQUIREMENTS ARE MET)
ADVANCED SCIENCE COURSE(S) OR AP COURSE (S) (IF REQUIREMENTS ARE MET)
BIOMEDICAL INNOVATION
DIGITAL ELECTRONICS OR CIVIL ENGINEERNG & ARCHITECTURE OR AEROSPACE ENGINEERING OR ENGINEERING

AGRICULTURE COURSE OPPORTUNITIES

5008 ** ANIMAL SCIENCE/SMALL ANIMAL CARE AND MANAGEMENT I & II (9, 10, 11, 12) This course will offer the students knowledge of small animals varying from pets to wild small animals. The student will learn basic information on selecting, caring, feeding, vaccinations, grooming, and selling of pets. The student will be studying animal/human relationships and how animals play a very large role in our lives today. Outside speakers will be used.

THE FOLLOWING COURSES ARE OFFERED AT HAMILTON SOUTHEASTERN HIGH SCHOOL ONLY

Students in this program will be required to have a study hall/travel period

5070 ADVANCED LIFE SCIENCE (IN AGRICULTURE), ANIMALS (11, 12) Advanced Life Science, Animals, is a standards-based, interdisciplinary science course that integrates biology, chemistry, and microbiology in an agricultural context. Through instruction, including laboratory work and field investigations, students gain a broader knowledge of animal taxonomy, cell functions, organ systems, genetics, ecology and historical and current issues in animal agriculture. This course qualifies as a third science requirement towards an Academic Honors Diploma. Additionally, students completing this course may be eligible to earn 3 hours of college credit (at no additional costs) by completing the end of course assessment. **Requirement – Biology and Chemistry or ICP**

5074 ADVANCED LIFE SCIENCES (IN AGRICULTURE) – PLANT AND SOIL (11, 12) Advanced Life Science, Plant and Soil, is a standards-based interdisciplinary science course, geared to college bound and honors level students, that integrates biology, chemistry and earth science in an agricultural context. Knowledge gained enables them to better understand the workings of agricultural and horticultural practices. Course work includes laboratory work and field investigations in addition to classroom instruction. This course qualifies as a third science requirement towards an Academic Honors Diploma. Additionally, students completing this course may be eligible to earn 3 hours of college credit (at no additional cost) by completing the end of course assessment. **Requirement – Biology and Chemistry or ICP**

5056 FUNDAMENTALS OF AGRICULTURAL SCIENCE AND BUSINESS (Vocational Agribusiness I) – (9, 10, 11, 12) This is a year long course which is highly recommended as a prerequisite and foundation for all other agricultural classes. The nature of this course is to provide students with an introduction to the fundamentals of agricultural science and business. Topics to be covered include: animal science, plant and soil science, food science, horticultural science, farm and agribusiness management, landscape management, natural resources management, agricultural mechanization, and supervised agricultural experience.

5008 ANIMAL SCIENCE/LIVESTOCK PRODUCTION (10, 11, 12) (Offered in alternate year (2012-2013) This is a year long course that provides students with an overview of the field of animal science. Topics to be addressed include: anatomy and physiology, genetics, reproduction, nutrition, aquaculture, careers in animal science, common diseases and parasites, social and political issues related to the industry, and management practices for the care and maintenance of animals. **Requirement - Any Agriculture Class.**

5008 ** ANIMAL SCIENCE/HORSE PRODUCTION (10, 11, 12) (Offered in alternate year (2011-2012) This course provides students with an overview of the field of horse science. Topics addressed include: anatomy and physiology, genetics, reproduction, nutrition, careers in the horse industry, common diseases and parasites, social and political issues related to the industry, and management practices for the care and maintenance of horses.

5088 ** AGRICULTURAL MECHANIZATION (10, 11, 12) Gas, arc and wire welding will all be learned during the first semester of this course. A project is required. During the second semester of this course students will develop an understanding of basic principles of selection, operation, maintenance, and management of agricultural production equipment. Topics covered include: small gas engine repair, arc and gas welding, concrete, wood, and metal.

5132 ** HORTICULTURE SCIENCE (10, 11, 12) This course may be taken for one semester or the entire year. The first semester of this course is designed to give students a background in the field of horticultural plants and products. Topics covered include: reproduction and propagation of plants, plant growth, growth media, management practices for field and greenhouse production, marketing concepts, production of herbaceous, woody and nursery stock, fruit, nut and vegetable production, and pest management. The second semester of the course gives students a background in the field of horticulture and its many career opportunities. It addresses the advanced biology and technology involved in the production, processing and marketing of horticultural plants and products. Students participate in a variety of activities including extensive laboratory work in the school greenhouse.

5136 LANDSCAPE MANAGEMENT (10, 11, 12) This course provides the student with an overview of the field of landscape management. Students are introduced to the procedures used in the planning and design of a landscape, the principles and procedures involved with landscape construction, the determination of maintenance schedules, communications and management skills necessary in landscaping operations, and the care and use of equipment utilized by landscapers.

5180 NATURAL RESOURCE MANAGEMENT (10, 11, 12) This is a year long course focusing on the problems associated with the use/misuse of our natural resources and current management practices associated with the conservation. The goal of this course is for students to gain literacy in ecosystem dynamics, soil and water conservation practices, and recycling and managing waste in our environment. Topics studied will include basic ecology, water resources, soils, sustainable agriculture, pesticide use, forestry, range management, food production, outdoor recreation, urban land use management, fisheries and wildlife conservation, and biodiversity species management.

5228 SUPERVISED AGRICULTURAL EXPERIENCE (10, 11, 12) This course is designed to provide students with opportunities to gain experience in the agriculture field in which they are interested. Students should experience and apply what is learned in the classroom, laboratory, and training site to real-life situations. Students work closely with their agricultural science and business teachers, parents, and/or employers to get the most out of their SAE program. **Requirement – Fundamentals of Agricultural Science and Business**

Suggested
AgriScience& Business Course Schedule

Grade	Course	Grades Offered
Freshman Year	Fundamentals of Agricultural Science & Business	9, 10, 11, 12
	Small Animal Care and Management I & II	9, 10, 11, 12
Sophomore Year	Horticulture Science	10, 11, 12
	Landscape Management	10, 11, 12
Junior Year	Livestock Production	10, 11, 12
	Horse Production	10, 11, 12
	Advanced Life Science: Animals	11, 12
	Advanced Life Science: Plant and Soil	11, 12
Senior Year	Agricultural Mechanization	10, 11, 12
	Supervised Agricultural Experience (SAE)	10, 11, 12

PROJECT LEAD THE WAY

Fishers High School has aligned with a national engineering training program entitled Project Lead The Way. This program will combine curriculum from mathematics, science, and technology to prepare students for college level engineering coursework. Instructors for Project Lead The Way Courses have received training from engineering specialists from Penn State and Purdue Universities. Project Lead The Way is a four year comprehensive pre-engineering program that is made up of foundational courses: Introduction to Engineering Design, Principles of Engineering, Digital Electronics, and specialization courses: Computer Integrated Manufacturing, Bio Technology, Civil Architectural Design, Aerospace Engineering and Engineering Design and Development. **Suggested requirements for participation in Project Lead The Way include a strong standing in 8th grade Algebra. Students are expected to follow a college preparatory sequence of courses in high school mathematics as well as completion of physics.** More information can be obtained by visiting the national Project Lead The Way website at www.pltw.org.

4812 INTRODUCTION TO ENGINEERING DESIGN (9, 10, 11, 12) This course is the first level in all course sequences in technology education. This Project Lead The Way course develops student problem-solving skills using a design development process. Models of product solutions are created, analyzed, and communicated using solid modeling computer design software. **Requirement – Algebra I, Recommendation – "B" average or higher in Algebra I**

4814 PRINCIPLES OF ENGINEERING (10, 11, 12) This PLTW course helps students understand the field of engineering/engineering technology by exploring various technology systems and manufacturing processes. 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. **Requirement – Introduction to Engineering Design or permission from the instructor, Recommendation – Completion of Intro to Engineering Design with a "B" average or better**

4826 DIGITAL ELECTRONICS (11, 12) This PLTW course is a course in applied logic that encompasses the application of electronic circuits and devices. Computer simulation software is used to design and test digital circuitry prior to the actual construction of circuits and devices. **Requirement – Principles of Engineering or permission of the instructor, Recommendation – Completion of Principles of Engineering with a "B" average or better**

4820 CIVIL ENGINEERING AND ARCHITECTURE (11, 12) This PLTW course 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. **Requirement – Principles of Engineering or permission of the instructor**, **Recommendation – Completion of Principles of Engineering with a "C" average or better**

4816 AEROSPACE ENGINEERING (11, 12) Through hands-on engineering projects developed with NASA, students learn about aerodynamics, astronautics, space-life sciences, and systems engineering (which includes the study of intelligent vehicles like the Mars rovers Spirit and Opportunity). **Requirement – Principles of Engineering or permission from the instructor, Recommendation – Completion of Principles of Engineering with a "C" average or better**

THE FOLLOWING PLTW COURSES ARE OFFERED AT HAMILTON SOUTHEASTERN HIGH SCHOOL ONLY

Students in this course will be required to have a study hall/travel period

4810 COMPUTER INTEGRATED MANUFACTURING (11, 12) This Project Lead The Way course applies principles of rapid prototyping, robotics, and automation. Students use CNC equipment to produce actual models of their three-dimensional designs. Fundamental concepts of robotics used in automated manufacturing and design analysis are included. **Requirement – Principles of Engineering or permission from the instructor and completion of or concurrent enrollment in Digital Electronics, Recommendation – Completion of all PLTW courses with a "C" average or better**

4818 BIOTECHNICAL ENGINEERING (11, 12) This course introduces students to the fundamental aspects of biotechnology and the engineering technologies related to this emerging field. Instruction will emphasize the fusing of engineering and technology with life sciences to create new products. Application and design principles will be used in conjunction with scientific knowledge to explore and investigate such areas as: development of biomedical devices; pharmaceutical and medical therapies; agricultural research and development. Ethical, social and regulatory issues of biotechnology applications will be addressed throughout the course. **Requirement – Completion of Biology and Principles of Engineering or permission of the instructor, Recommendation – Completion of Principles of Engineering with a "C" average or better**

4828 ENGINEERING DESIGN AND DEVELOPMENT (12) This Project Lead The Way course is an engineering research course in which students work in teams to research, design and construct a solution to an open-ended engineering problem. Students apply principles developed in the four preceding courses and are guided by a community mentor. They must present progress reports, submit a final written report and defend their solutions to a panel of outside reviewers at the end of the school year. **Requirement – Digital Electronics or permission of the instructor, Recommendation – Completion of all PLTW courses with a "C" average or better**

SOCIAL STUDIES

The Social Studies Department encourages all students to become responsible and participatory citizens. Students are expected to support their beliefs with logic and be willing to consider the opinions of others. The department also expects social studies students to exhibit critical thinking skills as they analyze, synthesize, and evaluate issues. The development of these skills will encourage students to become productive members of society and to meet the challenges of the 21st century.

1570 GEOGRAPHY AND HISTORY OF THE WORLD (9, 10) Specific geographic and historical skills and concepts of historical geography will be used to explore global themes primarily, but not exclusively, for the period beginning in 1000 CE. Historical geography concepts are used to explore the global themes including change over time, origin, diffusion, physical systems, cultural landscapes, and spatial distribution and interaction. By using these skills, concepts and the processes associated with them, students are able to analyze, evaluate, and make predictions about major global developments.

1548 WORLD HISTORY AND CIVILIZATION (9, 10, 11, 12) World History is designed as a survey course examining civilizations from ancient to modern times. Particular attention will be paid to the cultural, historical, and geographical influences on the development of each civilization. Projects and current event discussions will be used to enhance learning.

1576 ## AP WORLD HISTORY (9, 10, 11, 12) In this college level course students will study the development and interaction of world cultures throughout history by applying a wide range of factual knowledge as they analyze themes. This course emphasizes happenings from 1000 CE to the present day. The student will be required to do a great deal of background reading and document analysis. On the average, students could expect to spend seven hours during a calendar week studying outside of class. **Summer reading information will be distributed at a group orientation in the spring. Recommendation – 3.4 GPA**

1572 * ## AP HUMAN GEOGRAPHY (10, 11, 12) In this college level elective course, students will study the patterns of human activities across the globe. Class activities and discussions are created which challenge students to demonstrate their understanding of the vocabulary and theories of human geography. Class time provides opportunities for students to work collaboratively with their peers to examine why the systems of the world work the way they do. **Recommendation – 3.4 GPA**

1526 * LAW EDUCATION (10, 11) This elective class traces the development of our legal system and the evolution of the laws that impact students and their society. The class focuses on how the laws of the state and federal governments work within the framework of the Constitution. Group projects will include mock trials and simulations of Congressional hearings.

1512 * CURRENT ISSUES (10, 11) This elective course focuses on the study of the modern day world with emphasis on the United States. The students will engage in a variety of activities to increase their awareness of current happenings in our country and the impact on their lives.

1542 U.S. HISTORY (11) This course builds upon concepts developed in previous studies of American history and emphasizes national development from the late nineteenth century into the twenty-first century. After review of fundamental themes in the early development of the nation, students study the key events, people, groups, and movements in the late nineteenth, twentieth, and early twenty-first centuries as they relate to life in Indiana and the United States.

1542 THE AMERICAN EXPERIENCE, U.S. HISTORY (11) The American Experience (AmEx) is an innovative class that is a **two-period** block course **worth four credits** course and is taught in cooperation by a history and an English teacher. The interdisciplinary class blends the curricula of US History and English 11, satisfying the core course requirements of both and providing an optional, innovative course of study. Learning methods will include 5 novels, composition, music, art, film, and primary source documents integrated into an examination of what makes the "American experience" unique. Emphasis is placed on public speaking to a large group of students, cooperative work, discussion, creative and analytical writing, document examination, reading both fiction and non-fiction, and projects. **Requirement – Successful completion of English 10, Recommendation – C+ average or better in English 10 and World History/Geography and History of the World**

1562 ## AP U.S. HISTORY (10, 11) In this college level course, students will study the history of the United States from its beginnings through the twenty-first century. Much outside reading and writing is expected. Students will gain analytical skills to interpret events in the context of the times. Class participation is expected and there will be many group projects. On the average, students should expect to spend seven hours during a calendar week studying outside of class. **Summer reading information will be distributed during a group orientation in the spring. Recommendation – 3.4 GPA and strong grades in 9th grade Social Studies class; potential IB students should take this course as a sophomore.**

1556 ## AP/IB EUROPEAN HISTORY (10, 11, 12) This college level elective course is a chronological study of European history which covers the events from the Renaissance up to the 21st century. The study of European History since 1450 introduces students to the cultural, economic, political and social developments that played a fundamental role in shaping the world in which we live. Some topics of particular focus will be war and conflict; their origins, development and consequences and development of modern states of Europe. This course requires a commitment to reading and organization. This course will serve as the first year of the IB History of Europe HL course sequence. **Summer reading information will be distributed at a group orientation in the spring. Recommendation – 3.4 GPA and completion of World History or AP World History**

1538 * TOPIC IN HISTORY (Overview of America for English Language Learners) This course is an overview of American history and its democratic foundations in preparation for U.S. History, Government, and Economics classes. **Requirement – 2 credits in English 9 or concurrent enrollment, Recommendation – LEP level 2-4**

1538 * TOPIC IN HISTORY/GLOBAL STUDIES (11, 12) This elective course focuses on the study of the modern day world and international events. The students will engage in a variety of activities to increase their awareness of current situations and challenges and to place Indiana in its proper world perspective. The need for global awareness and cooperation will be emphasized.

1538 * TOPIC IN HISTORY/COMPARATIVE RELIGIONS (11, 12) This elective course serves as an introduction to most major world religions. It will be an unbiased and scholastic investigation of the basic history, values, goals & beliefs of each religion. Through the course, students will examine the similarities and differences of the religions for themselves to develop familiarity and tolerance for other religions. Students will attend various religious services of different faiths during the semester.

1538 * TOPIC IN HISTORY/CONSTITUTIONAL LAW (11, 12) This elective course will explore in depth constitutional subjects and recent Supreme Court decisions. As in Law Education, students will participate in trials. Students will be responsible for researching cases. Various speakers will address the class on Constitutional issues. **Requirement – Law Education or permission of instructor**

1534 * SOCIOLOGY (11, 12) Sociology is the study of human relationships and group interaction. In this elective course, the student will learn the role of culture in the shaping of group behavior. Emphasis will be placed on how the family, peers, media, religions, community organizations, and life span development influence society. Political and social groups, race and ethnic relations, social stratification, adolescence and social and urban problems will be discussed. Community service hours are a required part of the curriculum.

1532 * PSYCHOLOGY (11, 12) Psychology is the study of human behavior. This elective course covers a variety of topics including the history and approaches of the discipline, learning and memory, physiology, personality, social psychology and abnormal behavior. Activities include experiments, group projects, large group discussion and role-playing. This course will benefit all students, but is designed for those who are college-bound.

1558 * ## AP/IB PSYCHOLOGY (11, 12) This elective course includes: history and approaches, research methods, biological bases of behavior, sensation and perception, states of consciousness, learning, cognition, motivation and emotion, developmental psychology, personality, testing and individual differences, abnormal psychology, treatment of psychological disorders, and social psychology. This course is the first semester of the IB Psychology SL sequence. **Recommendation – 3.4 GPA**

1606 * ## IB PSYCHOLOGY SL (11, 12) This is the second year in the IB Higher Level Psychology curriculum and may also be taken as an elective course by non-IB students. Students will study the levels of analysis in psychology: Biological, Cognitive and Soicio-cultural perspectives as well as Abnormal Psychology and Human Relationships. All aspects of research in the field, including ethics, qualitative and quantitative research, and experimental study are included. Students will design and implement experimental studies, analyze them statistically and write an APA write up for the study. **Requirement – AP Psychology and IB Psychology SL, Recommendation – 3.4 GPA**

1604 ## IB PSYCHOLOGY HL (12) This is the second year in the IB Higher Level Psychology curriculum and may also be taken as an elective course by non-IB students. Students will study the levels of analysis in psychology: Biological, Cognitive and Soicio-cultural perspectives as well as Abnormal Psychology and Human Relationships. All aspects of research in the field, including ethics, qualitative and quantitative research, and experimental study are included. Students will design and implement experimental studies, analyze them statistically and write an APA write up for the study. **Requirement – AP Psychology and IB Psychology SL, Recommendation – 3.4 GPA**

1540 * U.S. GOVERNMENT (12) A required course intended to effectively increase a student's understanding of American government. Emphasis is placed on developing responsible citizens who value and appreciate a commitment to active participation in national, state, and local levels of government. Students will comprehend and gain an appreciation of the role government plays in their lives along with learning their rights and privileges as citizens. Attendance at community political meetings and events is a required part of the curriculum.

1560 * ## AP/IB U.S. GOVERNMENT & POLITICS/WE THE PEOPLE (12) In this college level course, students will study the U.S. government foundations and political theories with relationship to present day laws. Students in this class also will participate in the We the People competition, which will require time outside of class for preparation and practice. This course satisfies the Indiana U.S. government requirement. This HL course will be offered only in the Fall Semester. This course is the first semester of the second year of the IB History of Europe course sequence. **Requirement - U.S. History, Recommendation - 3.4 average in U.S. History.**

1560 * ## AP/IB U.S. GOVERNMENT & POLITICS (12) In this college level course, students will use an analytic perspective to study American Government, including general concepts and specific examples. There will be a focus on the various institutions, groups, beliefs and ideas that constitute US politics. This course satisfies the U.S. government requirement. This course is the first semester of the second year of the IB History of Europe HL course sequence. **Summer reading information will be distributed at a group orientation in the spring. Requirement - U.S. History, Recommendation - 3.4 average in U.S. History**

1552 * ## AP/IB COMPARATIVE GOVERNMENT AND POLITICS (12) In this college level elective course, students will analyze the political systems of China, Great Britain, Iran, Mexico, Nigeria and Russia. These political systems will then be compared to the United States' political system. Instructional methods will include group projects, class discussions, lecture, writing, and video presentations. Students may earn college credit. This course is the second semester of the second year of the IB History of Europe HL course sequence. **Requirement - U.S. History, U.S. Government or AP Government & Politics, Recommendation - 3.4 GPA**

1514 * ECONOMICS (12) This required course is designed to give each student an understanding of basic economic concepts and principles and their relationship to the free enterprise system. This includes a study of the production, distribution, and consumption of goods and services. Students will explore supply and demand, business organization, money and banking, trade and transportation, and the distribution of wealth and income. Macroeconomic and microeconomic concepts are explored along with the vocabulary of economics.

1566 * ## AP/IB MICROECONOMICS (11, 12) This one semester, college level class will focus on the study of microeconomics. Students will gain a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both as consumers and producers within the larger economic system. The role of government will be studied as to how it tries to promote efficiency and equity in the economy. Market structures and their influence on the economy will be studied. On the average, students could expect to spend seven hours during a calendar week studying outside of class. This course satisfies the Indiana Economics requirement and is the first semester of the IB Economics course sequence. **Recommendation – 3.4 GPA**

1564 * ## AP/IB MACROECONOMICS (11, 12) This one semester, college level elective course will give students a thorough understanding of the principles of economics that apply to an economic system as a whole. Such a course places particular emphasis on the study of national income and price determination, and also develops students' familiarity with economic performance measures, economic growth, and international economics. Learning methods will include lecture, reading, class discussions, simulations, and group projects. Students may earn college credit by scoring sufficiently high on the AP examination administered through the College Board in the spring. This course is the second semester of the IB Economics course sequence. **Requirement - AP Microeconomics or Economics, Recommendation - 3.4 GPA**

Fishers High School
Social Studies Options

Freshman Year

Requirement for Core 40 and Academic Honors Diplomas:

Geography and History of the World

OR

World History

OR

AP World History (recommended for IB candidates and 8th grade counselor/instructor recommendation)

Sophomore Year

Electives: AP European History, AP Human Geography*, AP United States History, AP World History, Current Issues*, Geography and History of the World, Law Education*, World History

Required for IB candidates: AP United States History

Junior Year

Requirement:

United States History

OR

The American Experience (combined Eng11 & US History)

OR

AP United States History

Electives: AP European History, AP Human Geography*, AP Psychology*, AP World History, Comparative Religions*, Constitutional Law*, Current Issues*, Global Studies*, Law Education*, Psychology*, Sociology*, Theory of Knowledge*, World History

Courses for IB students: AP/IB Economics, AP/IB European History, AP/IB Psychology, Theory of Knowledge*

Senior Year

Requirement:

US Government* **OR** AP US Government* **OR** AP US Government (We the People)*

AND

Economics* **OR** AP Economics (Micro)* **OR** AP Economics (Macro)*

Electives: AP Comparative Government, AP Economics (Micro)*, AP Economics (Macro)*, AP European History, AP Human Geography*, AP Psychology*, IB Psychology, HL, AP World History, Comparative Religions*, Constitutional Law*, Global Studies*, Psychology*, Sociology*, World History, Theory of Knowledge* Cadet Teaching I & II

Courses for IB students: AP/IB Economics, AP/IB European History, AP/IB Psychology, AP Government & Comparative Government, Theory of Knowledge*

ART

4060 * DRAWING I (9, 10, 11, 12) Students will study art history, art criticism, aesthetics, and focus primarily on art production. Emphasis is placed upon developing students' drawing skills and strengthening perceptual awareness. Students will explore various drawing materials, techniques and subjects. Drawing I introduces the elements and principles of art that serve as a foundation for all works of art. This class is recommended for all students intending to major or minor in art. Students are required to purchase supplies for the course at the bookstore. No previous art courses are necessary.

4000 * INTRODUCTION TO TWO-DIMENSIONAL ART (9, 10, 11, 12) Students taking Introduction to Two-Dimensional Art engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. Introduction to Two-Dimensional Art introduces the elements, principles, and design concepts that serve as a foundation for all works of art. Students will explore each design component through a variety of materials and techniques. Students are required to purchase supplies for the course at the bookstore. No previous art courses are necessary.

4006 * INTRODUCTION TO THREE-DIMENSIONAL ART (9, 10, 11, 12) Students taking 3-D Art engage in learning experiences that encompass art history, art criticism, aesthetics, and production of work. Through exploration of materials and techniques student will strengthen their ability to develop and organize their visual communication skills through creation of three-dimensional art work. Students will be introduced to the elements, principles, and design concepts that serve as a foundation for all works created in art and design. This class is a prerequisite for ceramics, sculpture and jewelry/metals courses and is especially recommended for all students intending to major or minor in art and/or design. Students are required to purchase supplies for the course at the school, bookstore or local area businesses.

4060 * DRAWING II (9, 10, 11, 12) Drawing II is a continuation of Drawing I, concerning itself with advanced drawing styles, techniques, and subject matter. This course is designed for a serious art student interested in developing and improving their knowledge of drawing and technique by using a broad range of medium. Students will further develop their knowledge in the areas of art history, art criticism, and aesthetics. Students are required to purchase supplies for the course at the school bookstore. This course is encouraged for students interested in pursuing AP Studio Drawing or 2-D Design. **Requirement - Drawing I**

4060 * DRAWING III (10, 11, 12) This course specializes in the study of the human form. Students will study the skeletal make-up of the human figure as well as draw the body from observation through in-class poses and still life's, along with completing a self-portrait based on an artistic style. This class is designed for the serious art student who is interested in majoring in art. Students are required to purchase supplies for the course located at the bookstore. This course is encouraged for students interested in pursuing AP Studio Drawing or 2-D Design. **Requirement - Drawing I and Drawing II**

4004 * ## IB ADVANCED TWO-DIMENSIONAL ART (11) The structure of the course will help students to develop new or improve upon their preexisting knowledge in the visual arts. Students will be encouraged to follow their interests and aesthetic preferences when determining their own unique course of study. The core elements of IB HL will include:

- opportunities for practice in the use of various media and the acquisition of studio techniques
- an introduction to basic artistic concepts
- ways of extending research into a practical work
- an introduction to the practice of arts criticism and analysis
- relating art to its socio-cultural and historical contexts

Students will be introduced to art concepts and techniques through practical work in the studio environment. They will have the opportunity to express themselves in a meaningful way at both the Higher Level. Exploration of aesthetic qualities, the relationship between form and meaning, and social and cultural functions of visual arts will be a main component in the course. Each student will be encouraged and challenged to develop a wide-range of personal research, more experimental in nature but also concerned with form and content. They will continuously develop techniques and skills in the course as they study a variety of famous and local artists, historical periods and artistic styles. They will engage in a wide variety of tasks both while working on their individual Research Workbooks for journaling and the development and implementation of each studio project, such as class presentation of studio work and research, critiques, art criticism, art history, the environmental influences of art, and discussions. Students are required to purchase supplies for this course at the school bookstore and area art supply stores. **Requirement - Any two of the following introductory art courses: Intro to 2-Dimensional Art, Drawing I, Intro to 3-Dimensional Art, Painting, Ceramics, Sculpture or Jewelry**

4086 * VISUAL COMMUNICATIONS I (9, 10, 11, 12) This course enables students to gain experience with Macintosh programs like Adobe Illustrator and Adobe Photoshop. Students will work with art materials and assignments related to the field of graphic design. Students in this class learn how to successfully combine type and imagery in every composition. Students will create personal and company logos, design original posters and learn to communicate successfully in an artistic format. Experiences addressing art history, art criticism, and aesthetics will be discussed throughout the course. Students are required to purchase supplies for this course from the school bookstore and are art supply stores. **Requirement – Drawing I or Introduction to Two-Dimensional Art**

4086 * VISUAL COMMUNICATIONS II (10, 11, 12) This course is a continuation of Visual Communications I, concerning itself with the development of personal logos, brochures, artist books, and product design. Art history, art criticism, and aesthetics will again be addressed. Students will: (1) reflect upon the outcome of the creative experiences, (2) explore historical connections, (3) write about the process, (4) make presentations about their progress at regular intervals, (5) work individually on the Macintosh computers, and (6) explore career options related to graphic design. Students will be required to purchase supplies for this course from the bookstore and area art supply stores. **Requirement – Visual Communications I**

4064 * PAINTING I (10, 11, 12) Painting is a studio oriented class which enables students to experience different painting techniques, styles and media while exploring art history, art criticism, and aesthetics. Experimentation and exploration with color will be emphasized along with the introduction to a variety of painting techniques, vocabulary, and styles. The course uses pastel, marker, watercolor paint and acrylic paint as mediums for developing original compositions. Students are required to purchase painting supplies for this course at local area art supply stores. **Requirement – Drawing I or Introduction to Two Dimensional Art**

4064 * PAINTING II (10, 11, 12) Students in this course engage in a sequential learning experiences that encompass art history, art criticism, aesthetics, and production that lead to the creation of portfolio quality works. Artwork developed in this course is built from the foundation set in Painting I. Students are expected to challenge themselves with advanced painting techniques in acrylic, watercolor, and oil paint on traditional and non-traditional surfaces, leading to several successful artworks for their portfolio. This course is recommended for students pursuing AP Studio 2-D Design. Students are required to purchase painting supplies for this course at local area art supply stores. Students interested in painting in oils will have to buy their own oil paint to use in class. **Requirement – Drawing I or Introduction to Two Dimensional Art and Painting I**

4006 * ## IB ADVANCED THREE-DIMENSIONAL ART (11) The structure of the course will help students to develop new or improve upon their preexisting knowledge in the visual arts. Students will be encouraged to follow their interests and aesthetic preferences when determining their own unique course of study. The core elements of IB Higher Level Art will include:

- opportunities for practice in the use of various media and the acquisition of studio techniques
- an introduction to basic artistic concepts
- ways of extending research into a practical work
- an introduction to the practice of arts criticism and analysis
- ways to relate art to its socio-cultural and historical contexts.

Students will be introduced to art concepts and techniques through practical work in the studio environment. They will have the opportunity to express themselves in a meaningful way. Exploration of aesthetic qualities, the relationship between form and meaning, and social and cultural functions of visual arts will be a main component in the course. Each student will be encouraged and challenged to develop a wide-range of personal research, more experimental in nature, but also, concerned with form and content. They will continuously develop techniques and skills in the course as they study a variety of famous and local artists, historical periods and artistic styles. They will engage in a wide variety of tasks both while working on their individual Research Workbooks for journaling and the development and implementation of each studio project, such as class presentation of studio work and research, critiques, art criticism, art history, the environmental influences of art, and discussions. Students are required to purchase painting supplies for this course at local area art supply stores. **Requirement – Any two of the following introductory art courses: Intro to 2-Dimensional Art, Drawing I, Intro to 3-Dimensional Art, Painting, Ceramics, Sculpture or Jewelry**

4040 * CERAMICS I (9, 10, 11, 12) This studio oriented class enables students the opportunity to creativity explore the possibilities of clay work using various methods of hand built construction with an introduction to the use of the potter's wheel. Emphasis is placed on development of skills, use of appropriate ceramic vocabulary, fabrication techniques and equipment associated with the ceramics craft. Students will also engage in learning experiences that encompass art history, art criticism, and aesthetics. All assignments must demonstrate both artistic merit and good craftsmanship. **Requirement - Introduction to Three Dimensional Art**

4040 * CERAMICS II (10, 11, 12) This studio oriented class enables students the opportunity to further explore the possibilities of clay. Students build on the skills, vocabulary, and processes gained from Ceramics I. Techniques learned previously are creatively combined to produce a variety of both sculptural and functional clay forms. A well designed set is developed and throwing skills on the potter's wheel are improved. Creativity is fostered while students learn to analyze, evaluate, communicate, organize and problem solve through ceramics. The learning experiences encompass art history, art criticism, aesthetics, and production. All assignments must demonstrate both artistic merit and good craftsmanship. This course is encouraged for students interested in pursuing AP Studio 3D - Design. **Requirement - Introduction to Three Dimensional Art and Ceramics I**

4040 * CERAMICS III (10, 11, 12) This studio oriented class caters to student's specific strengths (hand building or the potter's wheel), projects are larger in scope and include multiple teacher-student critiques. Students use advanced design skills acquired from the Ceramics I and II courses to complete high-quality, formal ceramic pieces. Students are asked to push the boundaries of function, materials, and the fabrication processes in hand building, while continuing to improve their building techniques on the potter's wheel. Trimming, extruding and using armatures will be used to refine and elaborate forms. Aesthetic sensory qualities will be explored and developed using themes. Art related career opportunities and studio responsibilities will be addressed. This course is encouraged for students interested in pursuing AP Studio 3D - Design. Students are required to purchase supplies for this course at the school bookstore and area art supply stores. **Requirement – Introduction to Three Dimensional Art and Ceramics I and II**

4042 * JEWELRY I (9, 10, 11, 12) This class enables students to develop their technical and craftsmanship skills through the creation of several metals projects. Students will explore a variety of materials, which may include: copper, nu-gold, nickel silver, sterling silver, plastics and wood. While studying jewelry making and metals techniques, students will engage in experiences in art history, aesthetic, and art criticism. Students are required to purchase supplies for this course at the school bookstore and area art supply stores. **Requirement – Introduction to Three Dimensional Art**

4042 * JEWELRY II (10, 11, 12) Students taking this metals course engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. Students are required to purchase supplies for this course at the school bookstore and area art supply stores. **Requirement – Introduction to Three Dimensional Art and Jewelry I**

4044 * SCULPTURE I (10, 11, 12) This class enables students to explore various techniques; carving, modeling, molding, casting, and assemblage/construction, as well as displaying works of art. Materials used to create three-dimensional works of art such as; clay, plaster, stone, wood, wire, and metal are explored. Students participate in multiple class critiques and one-on-one evaluations with the teacher during the production process. Students will also engage in learning experiences that encompass art history, art criticism, and aesthetics. Students are required to purchase supplies for the course at the school bookstore and area art supply stores **Requirement – Introduction to Three Dimensional Art**

4044 * SCULPTURE II (10, 11, 12) This studio based course builds on a working vocabulary and knowledge of tools, equipment, and fabrication techniques explored in Sculpture I. Larger scale projects delving into sculptural processes and techniques, including brazing will be introduced. Students use their advanced design skills to complete high-quality sculptures. The elements of art and principles of design will be incorporated into student's work. Students will engage in sequential learning experiences which encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. This course is encouraged for students interested in pursuing AP Studio 3D - Design. Students are required to purchase supplies for the course at the school bookstore and area art supply stores. **Requirement – Introduction to Three Dimensional Art and Sculpture I**

4025 ## AP ART HISTORY (11, 12) Art History, Advanced Placement is a course based on the content established by the College Board. Art History is designed to provide the same benefits to secondary school students as those provided by an introductory college course in art history: an understanding and knowledge of architecture, sculpture, painting, and other art forms within diverse historical and cultural contexts. Students examine major forms of artistic expression from the past and the present from a variety of cultures. They learn to look at works of art critically, with intelligence and sensitivity, and to analyze what they see. **Requirement – World History and Civilization, a "B" or better in advanced English recommended**

4062 * PHOTOGRAPHY/DIGITAL (10, 11, 12) This one semester course will encompass all aspects of digital fine art photography. Students will engage in sequential learning experiences involving art production, art history, aesthetics and criticism. An emphasis is placed on developing compositional skills and the photographic manipulations of settings and lighting in order to illustrate the elements and principles of design. Students will have the opportunity to explore many techniques and applications leading to the creation of quality works. An introduction to the 35mm DSLR camera, its functions and its technical applications as well as digital tools and processes in the development of photography are covered. **Students must provide their own digital camera with manual capabilities including manual shutter speed, aperture, and focus (DSLR camera preferred), storage card with 2GB capacity, card reader, and USB cord. Requirement – Introduction to Two Dimensional Art**

4062 * MEDIA ARTS I (11, 12) This one semester course will encompass all aspects of black and white fine art photography. Students will engage in sequential learning experiences involving art production, art history, aesthetics and criticism. An emphasis is placed on the photographic manipulations of settings and lighting in order to illustrate the Elements and Principles of compositional design. Students will have the opportunity to work in a variety of environments with a variety of subject matter. This may include, but is not limited to, formal studio portraiture, landscape photography, and still life settings. An introduction to the 35 mm SLR camera, its functions and its technical applications as well as dark room processes in the development of black and white films are covered. **Pre-requisites: Introduction to Two-Dimensional Art. Students will provide their own manual 35mm camera, photo paper and film. THIS COURSE IS OFFERED AT HSE ONLY AND STUDENTS WILL BE REQUIRED TO TAKE A TRAVEL/STUDY HALL PERIOD.**

AP STUDIO ART ## (11, 12) AP Studio Art is a course based on the content established by the College Board. Portfolios are designed for students who are seriously interested in the practical experience of art. AP Studio Art is not based on a written examination; instead, students submit portfolios for evaluation at the end of the school year. The AP program is a cooperative endeavor that helps high school students complete college-level courses and permits colleges to evaluate, acknowledge, and encourage that accomplishment through the granting of appropriate credit and placement. Students are required to purchase supplies for the course at the school bookstore and area art supply stores. **Summer portfolio work and associated assignments are required and can be found on the FHS website in the middle of May. Requirements – Application and approval from Department Chair,** The course is divided into the following disciplines:

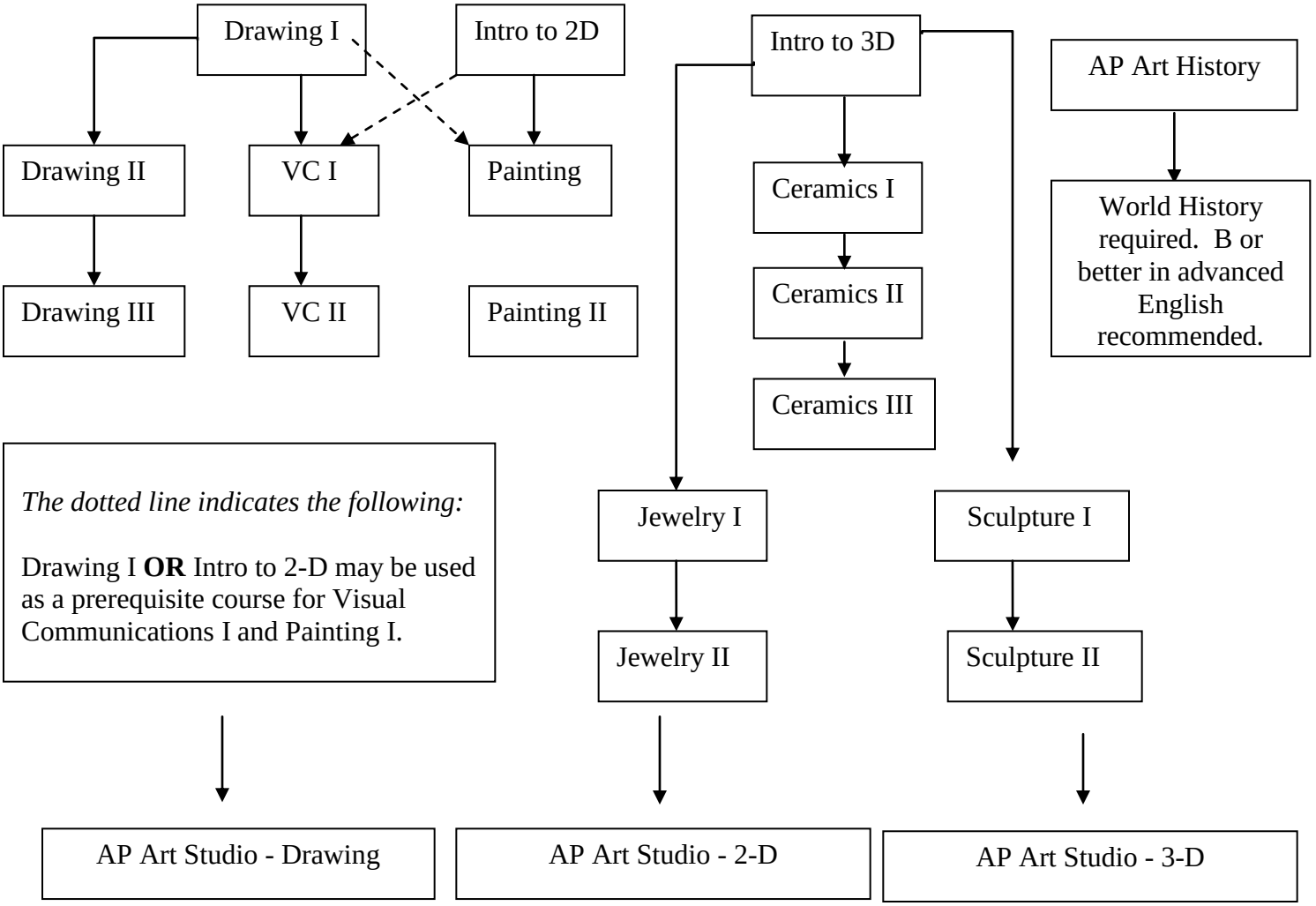
- **Drawing Portfolio 4048**
  The Drawing Portfolio is designed to address a very broad interpretation of drawing issues and media. Any work that makes use of photographs, published images, and/or other artists' works must show substantial and significant development beyond duplication.

- **2-D Design Portfolio 4050**
  This portfolio is intended to address a very broad interpretation of two-dimensional (2-D) design issues. This type of design involves purposeful decision-making about how to use the elements and principles of art in an integrative way. Any work that makes use of photographs, published images, and/or other artists' works must show substantial and significant development beyond duplication.

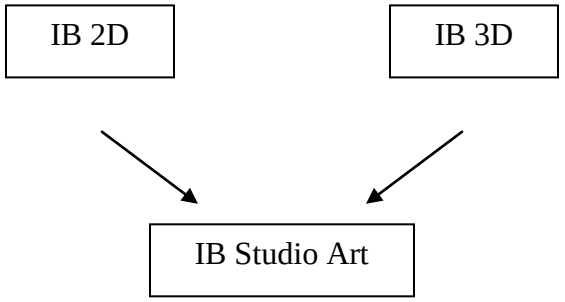
- **3-D Design Portfolio 4052**
  This portfolio is intended to address a broad interpretation of sculptural issues in depth and space. A variety of approaches to representation, abstraction, and expression may be part of the student's portfolio. Any work that is derived from photographs, published images, and/or other artists' works must show substantial and significant development beyond duplication.

4090/4092 IB VISUAL ARTS SL OR HL ## (11, 12) – IB Visual Arts provides students with the opportunities to make personal, sociocultural and aesthetic experiences meaningful through the production and understanding of art. It exemplifies and encourages an inquiring and integrated approach towards visual arts in their various historical and contemporary forms and promotes visual and contextual knowledge of art from various cultures. The core elements are introduction to art concepts, criticism and analysis, acquisition of studio technical and media skills, and relation of art to sociocultural and historical contexts. It consists of two compulsory parts: studio work – the practical exploration and artistic production; and research workbooks – independent critical research and analysis, visual and written, in more than one culture. Students are required to purchase supplies for the course at the school bookstore and area art supply stores. **Requirements – IB Advanced 2D and IB Advanced 3D or approval from Department Chair**

Visual Arts



Application completed for acceptance into the AP Studio Program during scheduling.
Permission from Art Department Chairperson.



J. EVERETT LIGHT CAREER CENTER

J. Everett Light Career Center (11, 12) The Career Center provides vocational and technical training for juniors and seniors who are interested in preparing for a specific occupation. The student is enrolled in three or four regular courses at the high school and one course at the vocational school. The vocational school course is equivalent to two or three regular classes. All enrollments must be done when class selections are taken for the next school year. **Once enrolled in a vocational school, a student must complete the entire year.** Tuition for the Career Center is paid for by the school corporation and **transportation will be provided for most courses (except Cosmetology/Barbering and 2-hour courses). Student may choose to ride the bus or drive**. Most courses are offered both AM and PM; this is subject to change. Also, most students who attend JEL will have an opportunity to receive dual college credit through Vincennes or Ivy Tech for JEL course work.

ANIMATION/FILM PRODUCTION (11, 12) One or two years, 2 periods per day. Do you love making and watching movies? Are you interested in learning to create animations? This class will explore the basics of simple animations, film genres, and production. Throughout this course, you will learn to write, shoot, and edit animations and short films.

AUTOMOTIVE COLLISION REPAIR TECHNOLOGY (11, 12) One or two years, 3 periods per day. Students study a wide range of processes, methods, and materials in keeping with the high-tech nature of today's automotive collision repair industry. State of the art equipment is used in this program. Job opportunities: working in collision repair facilities. **Students will have an additional fee of approximately $20 for supplies**.

AUTO MAINTENANCE/DETAILING (11, 12) One year, 2 or 3 periods per day. This class will be suited for students who like to work on automobiles, but are not interested in major auto repair. Students will learn the techniques used in basic auto maintenance shops (i.e. procedures to safely and proficiently change engine oil, replace other necessary fluids, lubricate chassis', simple brake shoe changes and adjustments, exhaust system function and repair, radio installation, interior customizing, and other basic car maintenance topics will be covered). Job Opportunities: Quick lube shops, brake and muffler shops, electronic stores. **Students will have an additional fee of approximately $5 for supplies**.

AUTOMOTIVE SERVICE TECHNOLOGY (11, 12) One or two years, 3 periods per day. Classroom and lab activities include instruction in the basics of automotive operation, service, and maintenance. The course is based on unit information starting at the lowest skill level and building to employment level. Job opportunities: working in auto dealerships, garages, etc. **Students will have an additional fee of approximately $65 for supplies.**

BARBERING (11, 12) Two years, 4 hours per day, (3 credits per semester). The Barbering program is designed to qualify students for the State Board of Beauty Culture examination, thereby providing them with the knowledge and skills to practice as barbers in the state of Indiana. Activities include the theory and practice of facial massage, sanitation, cutting, styling, shaving and coloring. There is also a minimum of 100 hours of summer school required between the first and second years of the program. **Students will have an additional fee of approximately $550 for supplies.**

BUILDING TRADES TECHNOLOGY (11, 12) One or two years, 3 periods per day. This class provides instruction in the basic skills required of the carpenter and the mason in the construction of residential or other light-frame and masonry buildings. Job Opportunities**:** Carpenter, Plumber, Electrician. **Students will have an additional fee of approximately $5 for supplies.**

BUSINESS TECHNOLOGY LAB (11, 12) One or two years, 2 or 3 periods per day. This program operates in a simulated office atmosphere with the latest equipment. Telephone usage, oral and written communication, records management and human relation skills are reinforced. Job opportunities: working in professional offices. **Students will have an additional fee of approximately $25 for supplies.**

COMPUTER REPAIR (11, 12) One year, 2 or 3 periods per day. Students will study the set-up, testing, repair, and maintenance of computer hardware. Students will also study operating systems, application software, and how to build a computer. Students will assemble a computer and if the grade requirements are met, will be permitted to keep the computer. Job opportunities: Computer Technician. **Students will have an additional fee of approximately $10 for supplies.**

COSMETOLOGY (11, 12) Two years, 4 hours per day, (3 credits per semester). Students can qualify for the Indiana State examination with the completion of this 1500 hour course. Theory and practice of facial massage, makeup, hair dressing, styling, and coloring are some of the areas covered in this class. This program requires students to spend some additional time in the evenings or on Saturdays. There is also a minimum of 100 hours of summer school required between the first and second years of the program. **Students will have an additional fee of approximately $500 for supplies.**

CULINARY ARTS (11, 12) One or two years, 3 periods per day. Students will learn all basics of cooking; baking and pastry; international foods, salads and garnishes, meat, poultry, and seafood, among other topics. Students will also study marketing and sales, sanitation, food safety, and menu development. Students will use state of the art institutional kitchen equipment for their hands-on instruction to complete weekly lab assignments. Students will have the opportunity to be Serv-Safe certified, making them more employable in the food service industry. **Students will have an additional fee of approximately $80 for supplies.**

DENTAL ASSISTING (CHAIR SIDE/LAB) (11, 12) One or two years, 3 periods per day. Students will study dental anatomy, dental terminology, nutrition, and oral diseases. Skills will be developed in sterilization, operative procedures, radiographs, and patient management. Job opportunities: Dental Assistant, Office Manager, Dental Lab. **Students will have an additional fee of approximately $35 for supplies.**

DIGITAL MEDIA ARTS (11, 12) One or two years, 2 or 3 periods per day. Students in Radio TV learn all aspects of video and audio production using the latest digital technology. Working behind the scenes or performing, students learn to produce creative and informative segments for radio, television and the internet. Job opportunities: Disc Jockey, Reporting, Production. **Students will have an additional fee of approximately $25 for supplies.**

EARLY CHILDHOOD EDUCATION (11, 12) One or two years, 3 periods per day. Students will learn to plan, develop, teach, and supervise activities enhancing the preschool age child's physical, emotional, social and intellectual development. Job opportunities: Teacher's Aide, Child Care Center.

EMERGENCY MEDICAL TECHNICIAN (EMT) (11, 12) One year program, 3 periods per day. Students in this program must be 17 years old by November 1st. Students will be taught the skills needed to qualify for the EMT-B certification. Topics studied include emergency first aid, analyzing different types of emergency situations, transporting patients, etc. Job opportunities: EMT, hospitals, fire departments, Ambulance Company. **Students will have an additional fee of approximately $100 for supplies.**

FIREFIGHTING, COMPREHENSIVE (11, 12) One year, 3 periods per day. Students will be taught the skills needed to qualify for the national certification for Level I and II Firefighter. Topics covered will include fire behavior and chemistry, search and rescue, strategy, tactics, survival skills, and many other areas. Job opportunities: Firefighter Level I and II. **Students will have an additional fee of approximately $125 for supplies.**

HEALTH CARE CAREERS (11, 12) One year, 3 periods per day. The Health Occupations Program has a two-fold objective: it prepares students for entry-level certified nursing assistant (CNA) positions in health care facilities. This program prepares students for entry-level nursing assistant/orderly positions in health care facilities and also provides an exploration of the various careers in the health care industry. Students can earn a CNA certification if qualifying test is passed. Job opportunities: Nursing homes, Hospitals, Medical offices. **Students will have an additional fee of approximately $100 for supplies.**

LAW ENFORCEMENT (11, 12) One or two years, 3 period per day. Students will study law enforcement's role in society and Indiana criminal law. Performing searches and arrests, surveillance, and first aid will also be taught. Students will also develop their physical fitness and agility. Job opportunities: Security guard, Police or Conservation Officer, Jailors. **Students will have an additional fee of approximately $50 for supplies.**

MEDICAL ASSISTING (12) One or two years, 2 or 3 periods per day. The medical assistants' curriculum offers students an introduction to the allied health fields. Students will learn to assist in the performance of diagnostic procedures, and physical examinations. Students will also learn to assist with patient education and the business of medical practices. Job opportunities: Medical offices, clinics, hospitals, pharmacies. **Students will have an additional fee of approximately $100 for supplies.**

MUSIC / SOUND PRODUCTION (11, 12) One year, 2 hours per day. This class combines the skills of digital audio recording and mixing with a student's love for music. Students will have an opportunity to help create music and mixes with instruments and software currently used in the recording industry. Students will also learn techniques for engineering and mixing live music performances. Students will also have an opportunity to perform on WJEL radio as a personality or musician. Job Opportunities: Sound engineer, production assistant, creative producer, audio production, sound crew technician

VETERINARY ASSISTING (11, 12) One or two years, 3 periods per day. Students will be introduced to the science and art of providing professional support to veterinarians. Students will be instructed in basic anatomy and physiology, medical terminology, and veterinary technician assisting skills. Job opportunities: Veterinary Assistant. Students will have an additional fee of approximately $40 for supplies.

VISUAL DESIGN AND ADVERTISING (11, 12) One or two years, 2 or 3 periods per day. Students will create advertising or promotional items by using their knowledge of layout, illustration, and computer design. A strong emphasis will be placed on development of design ideas, problem solving skills, and on client projects and presentations. Students should be deadline oriented. Job opportunities: Graphic Designer, Advertising, Freelance Artist. **Students will have an additional fee of approximately $125 for supplies.**

WEB & SOFTWARE PROGRAMMING (11, 12) One or two years, 2 or 3 periods per day. This course is designed to prepare students to develop custom software programs, maintain existing programs, and to develop and maintain web sites. The class offers curriculum for beginner as well as a student with background in software or web development. Job opportunities: web page designer and junior programmer. **Students will have an additional fee of approximately $10 for supplies.**

WELDING (11, 12) One or two years, 3 periods per day. This class is designed to develop skills in stick, mig, and tig welding. Students will also use plasma arc cutters and band/cutoff saws. Job opportunities: Heavy construction, racing industry, oil industry, self-employed contractor, aircraft maintenance, fabricator. **Students will have an additional fee of approximately $50 for supplies.**

See the JEL Program Brochure in the Guidance Office for more complete course descriptions.

WORLD LANGUAGES

Studying a world language enhances critical and abstract thinking. It improves reasoning and organizational skills. Language is a powerful tool! It is interdisciplinary in nature. Among the advantages afforded to students who study world languages are: increased vocabulary in students' native language, more thorough understanding of our global economy, increased career opportunities, crucial understanding of the mechanics of language, enhanced cross-cultural communication, heightened development of cognitive growth, and better verbal SAT scores. Which language should students learn? Any and all of them! All of the languages enrich students' education and opportunities, and prepare them to be global citizens in the 21st century.

TEXTBOOK: Students may or may not use the same book. In a regular class the teacher selects sections of each chapter to study based on their difficulty and practical application. The regular class avoids subtleties in grammar study. In the Honors class the students cover most sections of each chapter in depth. The class examines the subtleties of grammar and covers more chapters than the regular classes. Additional readings outside the textbook are often assigned.

ASSIGNMENTS: Assignments in a regular class are generally structured and guided, while in the Honors class the assignments are often open-ended.

USE OF TARGET LANGUAGE: Much of the lesson is conducted in the target language in the regular class, but there is still a dependency on English for classroom management and grammar instruction. The majority of the Honors class is conducted in the target language. There are many opportunities for open-ended speaking, oral compositions, and classroom conversations in the target language.

GRAMMAR INSTRUCTION: Approximately twice as much time is spent on structured grammar and vocabulary practices in regular class as in the Honors. The Honors students move quickly into open-ended communicative activities.

WRITING: Students in the regular class will write short, structured essays focusing on personal experiences. Students in the Honors class write more often. The assignments tend to be open-ended and tend to elicit longer essays. The topics usually deal with personal experiences and a range of cultural and literary themes.

ADVANCED PLACEMENT: Students in the fifth or sixth year of a language are encouraged to sit for the AP exam.

If there are not enough students for both a regular class and an honors class, the administration will determine the level of the course.

A student who has special exposure to a world language (Parents are native speakers of the target language, target language is used in the home, student has travel/lived for an extended period of time in a place where the target language is spoken, etc) will be asked to take a diagnostic test. Depending upon the results, the student may be placed at a higher level of study in order for the student to maximize his/her potential.

ALTERNATE WORLD LANGUAGE CREDIT

Hamilton Southeastern Schools will allow students to take Russian, Chinese, Japanese, and Latin as on-line courses through the Indiana Academy at Ball State University and Indiana University High School. This on-line work will be completed outside the school day with no supervision/assistance provided by HSE staff. Students will pay for the course to either Ball State University or Indiana University depending on the specific language. These credits will not count against the maximum four correspondence/on-line credits. For more information contact your counselor.

Level I Languages:

French I (2020), Spanish I (2120), German I (2040)

The first year of any language concentrates on developing proficiency in the four basic skills: listening, speaking, reading and writing. Introduction to the culture is assured through the study of geography, customs, lifestyle, food, and diversity of the people. **Requirement – none, Recommendation - "C" average in core classes**

2020 FRENCH I/ab initio (11) The ab initio program is offered to students who are enrolled in the International Baccalaureate program that have not had any previous exposure to French. This is a two-year course of study at an accelerated pace that will enable the student to be proficient at the third-year level upon completion of the program. Students must be self-motivated and willing to work independently as they will receive supplementary readings and vocabulary beyond the regular French curriculum. **This course is not a weighted course. Requirement – Permission of the IB coordinator**

Level II Languages:

French II (2022), Spanish II (2122), German II (2042)

During the second year basic skills of listening, speaking, reading and writing are reinforced and expanded. Emphasis is placed on using vocabulary and grammar skills in conversation. The study of the culture of the countries will continue. **Requirement – The first year of the language, Recommendation - "C" average in Level I**

Level II Honors Languages:

French II Honors (2022), Spanish II Honors (2122) German II Honors (2042)
Recommendation – "B" average in Level I Honors

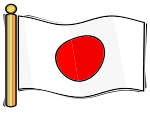
Level III Languages:

French III (2024), Spanish III (2124), German III (2044)

In the third year of the study of a language the students review major grammar points of the first two years and continue the study of grammar. The four basic skills of reading, writing, listening and speaking are developed further. Additional authentic reading materials are studied. Students will be expected to communicate primarily in the target language. **Requirement - The second year of the language, Recommendation - "C" average in Level II**

Level III Honors Languages:

French III Honors (2024), Spanish III Honors (2124), German III Honors (2044)
Requirement - Level II Honors, Recommendation – "B" in Level II Honors
IB French ab initio year 2 students enroll in French IIIH



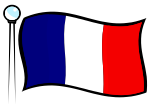
Level IV Languages:

French IV (2026), Spanish IV (2126), German IV (2046)

At this level grammar is reviewed and expanded through use of readings, oral presentations, advanced composition, poetry, and novels. Students spend time preparing for college placement tests. Students are expected to communicate in the target language. **Requirement– The third year of the language, Recommendation – "C" average in Level III**

Level IV Honors Languages:

French IV Honors (2026), Spanish IV Honors (2126), German IV Honors (2046)
Requirement - Level 3 Honors, Recommendation – "B" average in Level III Honors



Level V Languages:

French V (2028), Spanish V (2128), German V (2048) In this course students will review and expand their grammar skills. Students will incorporate the four skill areas of listening, speaking, reading and writing to improve language usage. Accelerated listening activities, oral presentations, lengthy reading passages, poetry, newspapers, magazines, novels, and advanced writing assignments are included in the curriculum. Students will also study the history, geography and culture of the different countries where the target language is spoken. All communication is in the target language.

Requirement - The fourth year of the language, Recommendation - "B" average in Level IV

Level V AP/IB Languages:

AP/IB French V (2032), AP/IB Spanish V (2132), AP/IB German V (2052)
Requirement – Completion of Level IV Honors or Level V Regular of the language

Level VI /IB Languages:

French VI /IB (2032), Spanish VI /IB (2132), German VI/IB (2052) In this course, students will concentrate on authentic readings from a variety of countries where each language is spoken. Authentic target-language films, works of literature, visual and print media and websites will expose students to information where interpretation and analysis of ideas will be required. Extensive expository and persuasive writing will be used in the classes. Students will study new vocabulary and enrich current domains of vocabulary in order to move towards advanced proficiency and develop a greater ease of comprehension in reading and listening. Students will work towards the idiomatic expression of their ideas through pinpointing the influence of English on their oral and written production of the target language. **Level VI language classes will receive the same weight as an AP/IB class.**

2156 AMERICAN SIGN LANGUAGE (11, 12) American Sign Language (ASL) is a language used by the majority of Deaf and hard of hearing people in the United States and Canada. By learning ASL, students gain both access to the culture of Deaf America and insights into features of spoken language that are often taken for granted. This course provides a firm foundation in language, linguistics, and culture of ASL and the Deaf Community. ASL is a visual language. Students must train their eyes, body movements, and facial expressions in order to communicate effectively. ASL I exposes the student to basics of signing, vocabulary, sentence structure, and culture.

2158 AMERICAN SIGN LANGUAGE II (12) During the second year basic skills of active listening, signing, grammar, and culture will be reinforced and expanded. Emphasis is placed on using vocabulary and grammar skills in conversations through signing. The study of the culture of the Deaf Community will continue. **Requirement – Students must have a "C" average in ASL I in order to take ASL II.**

Agriculture, Food and Natural Resources

GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses (for a Regular Diploma)	Recommended Electives	Occupations Relating to This Career Cluster
9	English 9	Algebra I	Biology I	Geography & History of the World or World History & Civilization	► Health (one semester) ► Phys Ed (two semesters) ► Computer Applications (one semester) ► Electives	► Business Foundations ► Accounting ► Business and Personal Law ► Business Management ► Speech ► Composition ► Advanced Science (Zoology, Microbiology or Botany) ► Entrepreneurship ► Nutrition and Wellness Foreign Languages ► Small Animal Care and Management I &II ► Agricultural courses at HSE (see course guide for offerings) ► Veterinary Assisting (J.E.L.)	►Agricultural Chemical Dealer ► Aquaculturalist ► Bank/Loan Office ► Environmental Compliance-Assurance Manager ► Equine Manager ► Farm Manager ► Health and Safety Sanitarian ► Meat Cutter-Meat Grader ► Park Manager ► Produce Buyer ► Recycling Technician ► Wildlife Manager ► Agricultural Educator ► Botanist ► Ecologist ► Environmental Engineer ► Fish and Game Officer ► Veterinarian
10	English 10	Geometry	Chemistry				
11	English 11 or Jr. English Options	Algebra II	Physics or Advanced Science	U.S. History			
12	English 12 or Senior English Options	Pre-Calculus, Discrete Math, or Statistics	Advanced Science	Government and Economics			

Architecture and Construction

GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses (for a Regular Diploma)	Recommended Electives	Occupations Relating to This Career Cluster
9	English 9	Algebra I	Biology I	Geography & History of the World or World History & Civilization	► Health (one semester) ► Phys Ed (two semesters) ► Computer Applications (one semester) ► Electives	► Tech/Business Comm. ► Classical Literature ► Composition ► Speech ► AP Environmental Science ► Construction courses at HSE (see course guide for offerings) ► Project Lead The Way (see course guide for offerings) ► Housing and Interior Design Foundations ► Psychology ► Sociology ► Drawing I, II, II ► Intro to 2-D Art ► Computer Aided Drafting (J.E.L) ► Construction Trades	►Architect ► Carpenter ► Civil Engineer ► Construction Foreman/Manager ► Contractor ► Drywall Installer ► Electrician ► Equipment/Material Manager ► General Contractor/Builder ► Heating, Ventilation and A/C Mechanic ► Interior Designer ► Painter ► Plumber ► Project Estimator ► Project Inspector ► Roofer ► Safety Director ► Sheet Metal Worker ► Tile and Marble Setter
10	English 10	Geometry	Chemistry I				
11	English 11 or Jr. English Options	Algebra II	Physics or Advanced Science	U.S. History			
12	English 12 or Senior English Options	Pre-Calculus, Discrete Math, or Statistics	Advanced Science	Government and Economics			

Arts, Audio/Video Technology and Communications

GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses (for a Regular Diploma)	Recommended Electives	Occupations Relating to This Career Cluster
9	English 9	Algebra I	Biology I	Geography & History of the World or World History & Civilization	► Health (one semester) ► Phys Ed (two semesters) ► Computer Applications (one semester) ► Electives	► Tech/Business Comm. ► Web Design ► Classical Literature ► Composition ► Journalism ► Photojournalism ► Student Publications ► Mass Media ► Speech ► Current Issues ► Psychology ► Visual and Performance Arts Electives (see course guide for offerings) ► Foreign Languages ► Electronic Journalism (J.E.L.) ► Radio Broadcasting and TV Production (J.E.L.) ► Visual Design and Advertising (J.E.L.)	► Actor ► Audio-Video Designer and Engineer ► Broadcast Technician ► Commercial Artist ► Computer Animator ► Curator/Gallery Manager ► Director and Coach ► Fashion Designer ► Journalist ► Lithographer ► Musician ► Printing Equipment Operator ► Telecommunication Technician ► Videographer ► Web Page Designer
10	English 10	Geometry	Chemistry I				
11	English 11 or Jr. English Options	Algebra II	Physics or Advanced Science	U.S. History			
12	English 12 or Senior English Options	Pre-Calculus, Discrete Math, or Statistics	Advanced Science	Government and Economics			

Business, Management and Administration

GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses (for a Regular Diploma)	Recommended Electives	Occupations Relating to This Career Cluster
9	English 9	Algebra I or Geometry	Biology I	Geography & History of the World or World History & Civilization	► Health (one semester) ► Phys Ed (two semesters) ► Computer Applications (one semester) ► Electives	► Business Technology Electives (see course guide for offerings) ► Academy of Finance Courses at HSE (see course guide for offerings) ► Classical Literature ► Composition ► Speech I ► Business Calculus ► Psychology ► Sociology ► AP/IB Microeconomics ► AP/IB Macroeconomics ► Current Issues ► Foreign Languages ► Advanced Computerized Accounting (J.E.L.) ► Business Technology Lab (J.E.L.)	► Administrative Assistant ► Advertising Sales Person ► Auditor ► Business Consultant ► Certified Public Accountant ► Corporate Trainer ► E-Commerce Analyst ► Entrepreneur ► Facilities Manager ► Finance Director ► Human Resources Manager ► Investment Executive ► Marketing Analyst ► Medical Transcriptionist ► Office Manager ► Personnel Recruiter ► Public Relations Manager ► Sales Representative ► Wholesale and Retail Buyer
10	English 10	Geometry or Algebra II	Chemistry I	Law Education and Current Issues			
11	English 11 or Jr. English Options	Algebra II or Pre-Calculus	Physics or Advanced Science	U.S. History			
12	English 12 or Senior English Options	Pre-Calculus, Business Calculus, or Statistics	Advanced Science	Government and Economics			

Education and Training

GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses (for a Regular Diploma)	Recommended Electives	Occupations Relating to This Career Cluster
9	English 9	Algebra I	Biology I	Geography & History of the World or World History & Civilization	► Health (one semester) ► Phys Ed (two semesters) ► Computer Applications (one semester) ► Electives	► Classical Literature ► Composition ► Speech I ► Child Development ► Interpersonal Relations ► Education and Early Childhood ► Peer Tutoring ► Cadet Teaching ► Sociology ► Psychology ► Foreign Languages ► Education and Early Childhood Careers (J.E.L.)	► Administrator ► Assessment Specialist ► CareerTech Administrator ► Child Care Worker ► Clinical Psychologist ► Coach ► College/University Faculty ► Counselor ► Curriculum Developer ► Elementary Teacher ► High School Teacher ► Middle School Teacher ► Principal ► Speech-Language Pathologist
10	English 10	Geometry	Chemistry I				
11	English 11 or Jr. English Options	Algebra II	Physics or Advanced Science	U.S. History			
12	English 12 or Senior English Options	Pre-Calculus, Discrete Math, or Statistics	Advanced Science	Government and Economics			

Finance

GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses (for a Regular Diploma)	Recommended Electives	Occupations Relating to This Career Cluster
9	English 9	Algebra I or Geometry	Biology I	Geography & History of the World or World History & Civilization	► Health (one semester) ► Phys Ed (two semesters) ► Computer Applications (one semester) ► Electives	► Business Technology Electives ► Academy of Finance Courses at HSE (see course guide for offerings) ► Classical Literature ► Composition ► Speech I ► Calculus or Business Calculus ► Psychology ► Sociology ► AP/IB Microeconomics ► AP/IB Macroeconomics ► Current Issues ► Foreign Languages ► Advanced Computerized Accounting (J.E.L.) ► Business Technology Lab (J.E.L.)	► Abstractor ► Accountant ► Actuary ► Bill and Account Collector ► Commodities Representative ► Controller ► Credit Analyst ► Debt Counselor ► Economist ► Financial Planner ► Foreign Exchange Manager ► Fund Raiser ► Insurance Broker ► Internal Auditor ► Loan Officer ► Non-Profit Manager ► Tax Examiner ► Treasurer ► Trust Officer
10	English 10	Geometry or Algebra II	Chemistry I	Law Education and Current Issues			
11	English 11 or Jr. English Options	Algebra II or Pre-Calculus	Physics or Advanced Science	U.S. History			
12	English 12 or Senior English Options	Pre-Calculus, Business Calculus, or Statistics	Advanced Science	Government and Economics			

Government and Public Administration

GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses (for a Regular Diploma)	Recommended Electives	Occupations Relating to This Career Cluster
9	English 9	Algebra I or Geometry	Biology I	Geography & History of the World or World History & Civilization	► Health (one semester) ► Phys Ed (two semesters) ► Computer Applications (one semester) ► Electives	► Accounting ► Business Foundations ► Business and Personal Law ► Composition ► Speech ► Interpersonal Relations ► Advanced Science - Botany ► AP Environmental Science ► AP Human Geography ► Law Education ► Current Issues ► Topic in History Electives ► Sociology ► Psychology ► AP Government - We The People ► AP/IB Microeconomics ► AP/IB Macroeconomics ► Foreign Languages	► Ambassador ► Bank Examiner ► City Manager ► Combat Control Officer ► Commissioner ► Cryptographer ► Election Supervisor ► Elected Official ► Foreign Service Officer ► Immigration Officer ► Intelligence Analyst ► Internal Revenue Investigator ► Lobbyist ► National Security Advisor ► Planner ► Policy Advisor ► Tax Policy Analyst
10	English 10	Geometry or Algebra II	Chemistry I	AP U.S. History			
11	English 11 or Jr. English Options	Algebra II or Pre-Calculus	Physics or Advanced Science	AP/IB European History			
12	English 12 or Senior English Options	Pre-Calculus, Business Calculus, or Statistics	Advanced Science	Government and Economics			

Health Science

GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses (for a Regular Diploma)	Recommended Electives	Occupations Relating to This Career Cluster
9	English 9	Algebra I or Geometry	Biology I	Geography & History of the World or World History & Civilization	► Health (one semester) ► Phys Ed (two semesters) ► Computer Applications (one semester) ► Electives	► Tech/Business Comm. ► Composition ► Speech ► Nutrition and Wellness ► Child Development ► Current Health Issues ► Principles of Biomedical Sciences ► Advanced Sci.-Human Anatomy/Physiology, Human Genetics, and/or Microbiology ► Sociology ► Psychology ► Foreign Languages ► Emergency Medical Technician and/or EMT First Responder (J.E.L.) ► Health Occupations, CNA and Medical Terminology (J.E.L.) ► Medical Assisting (J.E.L.)	► EMT/Paramedic ► Health Information Coder ► Home Health Aide ► Lab Technician ► Radiographer ► Registered Nurse ► Biochemist ► Biostatistician ► Geneticist ► Nutritionist ► Occupational Therapist ► Physician (MD/DO) ► Physician's Assistant ► Psychologist ► Radiologist ► Research Scientist ► Speech/Language Pathologist ► Toxicologist ► Veterinarian
10	English 10	Geometry or Algebra II	Chemistry I				
11	English 11 or Jr. English Options	Algebra II or Pre-Calculus	Physics or Advanced Science	U.S. History			
12	English 12 or Senior English Options	Pre-Calculus, Calculus, or Statistics	Advanced Science	Government and Economics			

Hospitality and Tourism

GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses (for a Regular Diploma)	Recommended Electives	Occupations Relating to This Career Cluster
9	English 9	Algebra I	Biology I	Geography & History of the World or World History & Civilization	► Health (one semester) ► Phys Ed (two semesters) ► Computer Applications (one semester) ► Electives	► Business Foundations ► Business Management ► Accounting ► Marketing I, II ► Sports, Recreation, and Entertainment Marketing ► Classical Literature ► Composition ► Speech I ► Statistics ► Sociology ► Psychology ► AP/IB Microeconomics ► AP/IB Macroeconomics ► Hospitality: Food Service and Lodging (J.E.L.)	► Baker ► Casino Manager ► Caterer ► Concierge ► Convention Services Manager ► Director of Operations - Lodging ► Director of Tourism Development ► Event Planner ► Executive Chef ► Facilities Manager ► Maitre d' ► Museum Director ► Reservations Manager ► Restaurant Owner/Manager ► Sports Promoter ► Theme Park Manager ► Tour and Travel Guide ► Travel Agent ► Wine Steward
10	English 10	Geometry	Chemistry I				
11	English 11 or Jr. English Options	Algebra II	Physics or Advanced Science	U.S. History			
12	English 12 or Senior English Options	Pre-Calculus, Discrete Math, or Statistics	Advanced Science	Government and Economics			

Human Services

GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses (for a Regular Diploma)	Recommended Electives	Occupations Relating to This Career Cluster
9	English 9	Algebra I or Geometry	Biology I	Geography & History of the World or World History & Civilization	► Health (one semester) ► Phys Ed (two semesters) ► Computer Applications (one semester) ► Electives	► Business Foundations ► Business and Personal Law ► Marketing I, II ► Finance: Business and Personal Finance ► Composition ► Speech ► Interpersonal Relations ► Peer Tutoring I, II ► Sociology ► Psychology ► AP Human Geography ► Physical Education Electives ► Child Development ► Foreign Languages ► Cosmetology (J.E.L.)	► Buyer ► Certified Financial Planner ► Community Service Director ► Consumer Advocate ► Cosmetologist ► Director of Childcare Facility ► Emergency and Relief Worker ► Esthetician ► Funeral Director ► Licensed Professional Counselor ► Market Researcher ► Massage Therapist ► Personal Fitness Trainer ► School Counselor/Psychologist ► Small Business Owner ► Social Worker
10	English 10	Geometry or Algebra II	Chemistry I				
11	English 11 or Jr. English Options	Algebra II or Pre-Calculus	Physics or Advanced Science	U.S. History			
12	English 12 or Senior English Options	Pre-Calculus, Calculus, or Statistics	Advanced Science	Government and Economics			

Information and Technology

GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses (for a Regular Diploma)	Recommended Electives	Occupations Relating to This Career Cluster
9	English 9	Algebra I or Geometry	Biology I	Geography & History of the World or World History & Civilization	► Health (one semester) ► Phys Ed (two semesters) ► Computer Applications (one semester) ► Electives	► Computer Applications Advanced ► Web Design I, II ► Tech/Business Comm. ► Computer Programming I, II ► AP Computer Science ► Classical Literature ► Composition ► Speech I ► Calculus ► Digital Electronics ► Psychology ► Foreign Languages ► Computer Operations/ Programming (J.E.L.) ► Computer Repair (J.E.L.)	► Animator ► Database Administrator ► Data Systems Designer ► E-Business Specialist ► Game Developer ► Information Technology Engineer ► Media Specialist ► Network Administrator ► Network Security Analyst ► PC Support Specialist ► Programmer ► Software Applications Specialist ► Systems Administrator ► Telecommunications Network Technician ► User Support Specialist ► Virtual Reality Specialist ► Web Architect/Designer
10	English 10	Geometry or Algebra II	Chemistry I				
11	English 11 or Jr. English Options	Algebra II or Pre-Calculus	Physics or Advanced Science	U.S. History			
12	English 12 or Senior English Options	Pre-Calculus, Calculus, or Statistics	Advanced Science	Government and Economics			

Law, Public Safety, Corrections and Security

GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses (for a Regular Diploma)	Recommended Electives	Occupations Relating to This Career Cluster
9	English 9	Algebra I	Biology I	Geography & History of the World or World History & Civilization	► Health (one semester) ► Phys Ed (two semesters) ► Computer Applications (one semester) ► Electives	► Business and Personal Law ► Tech/Business Comm. ► Classical Literature ► Composition ► Speech I ► Interpersonal Relations ► AP Human Geography ► Law Education ► Current Issues ► Psychology ► Sociology ► Topic in History: Constitutional Law ► Foreign Languages ► EMT and/or EMT First Responder (J.E.L.) ► Firefighting (J.E.L.) ► Law Enforcement (J.E.L.)	► Attorney ► Bomb Technician ► Corrections Officer ► Court Reporter ► Criminal Investigator ► EMT ► Federal Marshall ► Firefighter ► Gaming Surveillance Specialist ► Hazardous Materials Responder ► Loss Prevention Specialist ► Paralegal ► Park Ranger ► Police and Patrol Officer ► Probation/Parole Officer ► Public Information Officer ► Security Director ► Youth Services Worker
10	English 10	Geometry	Chemistry I	Law Education and Current Issues			
11	English 11 or Jr. English Options	Algebra II	Physics or Advanced Science	U.S. History			
12	English 12 or Senior English Options	Pre-Calculus, Discrete Math, or Statistics	Advanced Science	Government and Economics			

Manufacturing

GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses (for a Regular Diploma)	Recommended Electives	Occupations Relating to This Career Cluster
9	English 9	Algebra I	Biology I	Geography & History of the World or World History & Civilization	► Health (one semester) ► Phys Ed (two semesters) ► Computer Applications (one semester) ► Electives	► Business Foundations ► Tech/Business Comm. ► Classical Literature ► Composition ► Speech ► Statistics ► AP Environmental Science ► AP Physics ► Project Lead The Way (see course guide for offerings) ► Psychology ► Foreign Languages ► Graphic Imaging (J.E.L.) ► Manufacturing Technology (J.E.L.) ► Welding (J.E.L.)	► Assembler ► Boilermaker ► Design Engineer ► Environmental Engineer ► Foundry Worker ► Freight, Stock and Material Mover ► Health and Safety Representative ► Industrial Machinery Mechanic ► Inspector ► Labor Relations Manager ► Logistician ► Manufacturing Technician ► Pattern and Model Maker ► Production Manager ► Quality Control Technician ► Safety Engineer ► Tool and Diemaker ► Traffic Manager ► Welder
10	English 10	Geometry	Chemistry I				
11	English 11 or Jr. English Options	Algebra II	Physics or Advanced Science	U.S. History			
12	English 12 or Senior English Options	Pre-Calculus, Discrete Math, or Statistics	Advanced Science	Government and Economics			

Marketing, Sales and Service

GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses (for a Regular Diploma)	Recommended Electives	Occupations Relating to This Career Cluster
9	English 9	Algebra I or Geometry	Biology I	Geography & History of the World or World History & Civilization	► Health (one semester) ► Phys Ed (two semesters) ► Computer Applications (one semester) ► Electives	► Business Foundations ► Web Design I, II ► Business Management ► Business Math ► Marketing I, II ► Sports, Recreation, and Entertainment Marketing ► Entrepreneurship ► Finance: Business and Personal Finance and/or Investments and Securities ► Classical Literature ► Composition ► Speech ► Journalism ► Student Publications ► Sociology ► Psychology ► Foreign Languages ► Visual Design and Advertising (J.E.L.)	► Copywriter/Designer ► E-Commerce Director ► Entrepreneur ► Field Marketing Representative ► Forecasting Manager ► Interactive Media Specialist ► Inventory Manager/Analyst ► Logistics Manager ► Merchandise Buyer ► On-line Market Researcher ► Public Relations Manager ► Promotions Manager ► Retail Marketing Coordinator ► Sales Executive ► Shipping/Receiving Clerk ► Telemarketer ► Trade Show Manager ► Warehouse Manager ► Webmaster
10	English 10	Geometry or Algebra II	Chemistry I				
11	English 11 or Jr. English Options	Algebra II or Pre-Calculus	Physics or Advanced Science	U.S. History			
12	English 12 or Senior English Options	Pre-Calculus, Business Calculus, or Statistics	Advanced Science	Government and Economics			

Science, Technology, Engineering and Mathematics

GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses (for a Regular Diploma)	Recommended Electives	Occupations Relating to This Career Cluster
9	English 9	Algebra I or Geometry	Biology	Geography & History of the World or World History & Civilization	► Health (one semester) ► Phys Ed (two semesters) ► Computer Applications (one semester) ► Electives	► Business and Personal Law ► Entrepreneurship ► Tech/Business Comm. ► Classical Literature ► Composition ► Speech ► AP and Advanced Science Courses (see course guide for offerings) ► Project Lead The Way (see course guide for offerings) ► Sociology ► Psychology ► Foreign Languages ► Computer Aided Drafting (J.E.L.)	► Aerospace Engineer ► Agricultural Engineer ► Analytical Chemist ► Anthropologist ► Architectural Engineer ► Astrophysicist ► Biomedical Engineer ► CAD Technician ► Civil Engineer ► Computer Programmer ► Ecologist ► Geologist ► Geothermal Engineer ► Math Teacher ► Mathematician ► Metallurgist ► Statistician ► Survey Technician ► Zoologist
10	English 10	Geometry or Algebra II	Chemistry				
11	English 11 or Jr. English Options	Algebra II or Pre-Calculus	Physics	U.S. History			
12	English 12 or Senior English Options	Pre-Calculus, Calculus, or Statistics	Advanced Science Course	Government and Economics			

Transportation, Distribution and Logistics

GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses (for a Regular Diploma)	Recommended Electives	Occupations Relating to This Career Cluster
9	English 9	Algebra I or Geometry	Biology	Geography & History of the World or World History & Civilization	► Health (one semester) ► Phys Ed (two semesters) ► Computer Applications (one semester) ► Electives	► Business Management ► Business Foundations ► Classical Literature ► Composition ► Speech ► Advanced Science - Astronomy ► AP Environmental Science ► AP Chemistry and/or Physics ► Psychology ► Sociology ► Foreign Languages ► Automotive Collision Repair and/or Automotive Service Technology (J.E.L.)	► Airplane Pilot/Co-Pilot ► Air Traffic Controller ► Avionics Technician ► Cargo and Freight Agent ► Customs Inspector ► Environmental Manager ► Facility Engineer ► Industrial Equipment Mechanic ► Industrial and Packaging Engineer ► International Logistics Specialist ► Locomotive Engineer ► Marine Captain ► Port Manager ► Safety Analyst ► Storage and Distribution Manager ► Transportation Manager ► Truck Driver ► Urban and Regional Planner ► Warehouse Manager
10	English 10	Geometry or Algebra II	Chemistry				
11	English 11 or Jr. English Options	Algebra II or Pre-Calculus	Physics	U.S. History			
12	English 12 or Senior English Options	Pre-Calculus, Calculus, or Statistics	Advanced Science	Government and Economics			

FISHERS HIGH SCHOOL – FOUR YEAR PLAN

NAME: _____ ID#_____

IB _____ **CORE 40 _____**
ACADEMIC HONORS _____ **CORE 40 W/TECH HONORS _____**
GENERAL _____

FRESHMAN

1st Semester	Credit	2nd Semester	Credit
SM1 Summer	Credit	SM2 Summer	Credit
		Total Credits	

SOPHOMORE

1st Semester	Credit	2nd Semester	Credit
SM1 Summer	Credit	SM2 Summer	Credit
		Total Credits	

JUNIOR

1st Semester	Credit	2nd Semester	Credit
SM1 Summer	Credit	SM2 Summer	Credit
		Total Credits	

SENIOR

1st Semester	Credit	2nd Semester	Credit
SM1 Summer	Credit	SM2 Summer	Credit
		Total Credits	

ECA Passing ( ) ALG 1 _____ _____ _____ _____ _____ Date Passed _____
Passing ( ) ENG 10 _____ _____ _____ _____ _____ Date Passed _____

Career Choices _____

College Choices _____

NOTES

_____ _____
_____ _____
_____ _____

LAST NAME _____ FIRST NAME _____

Next Year's Grade
(circle one)
9 10 11 12

FISHERS HIGH SCHOOL COURSE REQUEST FORM

Complete and bring with you to your scheduling meeting

FIRST SEMESTER	SECOND SEMESTER	ALTERNATIVE CLASSES list four preferences in order
Course _____	Course _____	Course _____
Course _____	Course _____	Course _____
Course _____	Course _____	Course _____
Course _____	Course _____	Course _____
Course _____	Course _____	Students and parents should carefully consider all course requests prior to meeting with their guidance counselor to schedule courses for an upcoming school year. **No schedule changes will be made after May 31 as outlined in the student handbook.**
Course _____	Course _____	
Course _____	Course _____	

X _____ **X** _____
STUDENT'S SIGNATURE DATE

X _____ **X** _____
PARENT'S SIGNATURE DATE

Diploma Option: IB ____ Academic Honors ____ Core 40 ____ Technical Honors ____

My Character, My Choice **Parent/Student Copy**

_____ _____

LAST NAME FIRST NAME

Next Year's Grade
(circle one)
9 10 11 12

FISHERS HIGH SCHOOL COURSE REQUEST FORM

Complete, detach and bring with you to your scheduling meeting

FIRST SEMESTER	SECOND SEMESTER	ALTERNATIVE CLASSES list four preferences in order
Course _____	Course _____	Course _____
Course _____	Course _____	Course _____
Course _____	Course _____	Course _____
Course _____	Course _____	Course _____
Course _____	Course _____	Students and parents should carefully consider all course requests prior to meeting with their guidance counselor to schedule courses for an upcoming school year. **No schedule changes will be made after May 31 as outlined in the student handbook.**
Course _____	Course _____	
Course _____	Course _____	

X _____ **X** _____

STUDENT'S SIGNATURE DATE

X _____ **X** _____

PARENT'S SIGNATURE DATE

Diploma Option: IB ____ Academic Honors ____ Core 40 ____ Technical Honors ____

My Character, My Choice **Counselor Copy**