

FORT RECOVERY HIGH SCHOOL



2009-2010

Registration Guide and Course Descriptions

FULL REGISTRATION GUIDE
(Keep this for your reference!)

**The Full Registration Guide
(including all course descriptions)
can be found on the
FRHS Guidance Website at:**

<http://www.noacsc.org/mercer/fr/FRHS/guidance/guidance.html>

Also available on the website:

- Monthly Newsletter *(Hard copies of the newsletter are also available in the guidance office)*
 - General News
 - Scholarship/Grant/Loan Information
 - Job Postings
 - Upcoming Events
- Tri Star Information
- Financial Aid Links
- GPA Calculator
- ...and more!

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FRHS Required Courses for the 2009-2010 School Year:

<p>Freshman (class of 2013): <i>Minimum of 6.0 credits, maximum of 1 study hall</i></p> <ul style="list-style-type: none"> • English 9 • American History • Math: (Pre-Algebra, Algebra 1, or Algebra 2) • Biology or PLTW Biology • Health/PE 9 (may be postponed) 	<p>Sophomore (class of 2012) <i>Minimum of 6.0 credits, maximum of 1 study hall</i></p> <ul style="list-style-type: none"> • English 10 • Government, Economics, and Financial Literacy • Math: (Algebra 1, Algebra 2, or Geometry) • Chemistry, PLTW Chemistry or Action Chemistry <p><i>**first class to earn 1 cr. of 8th grade Physical Science</i></p>
<p>Junior (class of 2011): <i>Minimum of 6.0 credits, maximum of 1 study hall</i></p> <ul style="list-style-type: none"> • English 11 or Advanced English 11 • Science: (AP Chemistry, Anatomy/Physiology, or Physics) <p><i>**Juniors who took Agri-Science 1 & 2 have earned 1.0 credits in science, and may not need an additional science course this year</i></p> <ul style="list-style-type: none"> • A Math Course <p><i>**Juniors who attend Tri-Star will do so in the morning, and will take classes pd's 5-8 (or 4-8) at FRHS.</i></p>	<p>Senior (class of 2010): <i>Minimum of 5.5 credits, maximum of 1 study hall--Seniors may request Late Arrival or Early Dismissal as well</i></p> <ul style="list-style-type: none"> • English: (English 12, AP Literature and Composition, or Business English & Comm.) • World History (or AP World History) • College bound seniors are strongly encouraged to take a Math, Science, and Fine Arts course. <p><i>**Seniors who attend Tri-Star will do so in the afternoon, and will take 3 (possibly 4-Coldwater only) classes in the morning at FRHS.</i></p> <p><i>**Agri-Business 2 Co-op students will take a minimum of 4 classes in the morning at FRHS</i></p>

Students wishing to attend a 4-year college should take a minimum of the above requirements listed on p. 3 including Algebra 1, Algebra 2, Geometry, 2 years of the same foreign language, and one credit in fine arts. *Agri-Science is not considered a college-prep science.* Senior schedules should include: English, Math, Science, Social Studies, Foreign Language, and Fine Arts, if possible. Many colleges look at a student's course selection and rigor as part of the admission process. A transcript with good quality courses speaks volumes!

Students who wish to take **AP Exams** in May will be responsible for the exam fee of approximately \$80. Each university has its own AP score criteria used to earn college credit (usually a 3 or 4 or 5).

Students who want to take **college classes** through the Post Secondary Enrollment Option (PSEO) Program **must** attend the informational meeting on [Monday, February 9, 2009](#) (note the date change) in the HS Commons at 7:00 p.m. Both the student and a parent must attend this meeting to be informed of the program advantages/disadvantages as well as procedures for scheduling to be eligible. ***(Students who are currently taking PSEO classes must attend the presentation if they plan to participate again next year.)*** Interested PSEO students must register their intent in the Guidance Office by March 30th of each year.

Tri-Star Applications available in the Guidance Office and are due by [February 5, 2009](#). Current Tri-Star Juniors will fill out a form in their Tri-Star class stating their intent to return (or not) to Tri-Star next year. Juniors: please let Mrs. Kaiser know what your Tri-Star plans are for next year.

Other Important Notes:

- **High School credit** is given for 8th grade P.E. (0.25 credits), 8th grade Physical Science (class of 2012 and beyond- 1.0 credit), and 8th grade [Algebra 1 \(1.0 credit\)](#). Grades in these courses do not figure into high school GPA's, but will appear on the student's high school transcript.
- **Athletes** (at a minimum) must carry the equivalent of five *passing* credits (not classes) each 9-weeks. They must also have a minimum GPA of 1.5 on a 4.0 scale for the nine weeks.
- **Document ALL service hours and activities.** Forms are available in the guidance office.
- Students may **Job Shadow** someone for one day each year. Forms are available in the guidance office.
- Seniors are eligible for two (total) **college visitation days**. Forms must be submitted at least one week in advance.
- **College and military representatives** come to FRHS each fall. Juniors and Seniors can sign up in the guidance office.

YOUR FOUR-YEAR EDUCATIONAL PLAN

Student _____

Next Year's Grade _____

Date _____

9th Grade

1. English 9
2. American History
3. (math) _____
4. Biology OR PLTW Biology
5. Health & PE 9 (May be postponed)
6. _____
7. _____
8. _____

10th Grade

1. English 10
2. Government, Economics & Financial Literacy
3. (math) _____
4. Chemistry, PLTW Chemistry, OR Action Chemistry
5. _____
6. _____
7. _____
8. _____

11th Grade

1. (English) _____
2. (math) _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

12th Grade

1. (English) _____
2. World History OR AP World History
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

What It Takes to Earn an Ohio Diploma

Class of 2007-2013

There are testing requirements and curriculum requirements connected with the Ohio diploma; students must meet both requirements in order to earn an Ohio diploma. A district may require additional/specific courses in addition to the state minimum requirements.

I. Curriculum Requirements (state minimum)

English language arts: 4 units

Health: ½ unit

Mathematics: 3 units

Physical education: ½ unit

Science: 3 units*

Social studies: 3 units**

Electives: 6 units***

* Science units must include 1 unit of biological sciences and 1 unit of physical sciences.

** Social Studies units must include ½ unit of American history and ½ unit of American government.

*** Electives units must include 1 unit or 2 half units in Business/Technology, Fine Arts, or Foreign language.

II. Graduation Tests Requirements

For Students Who Need to Pass the Ohio Graduation Tests (OGT):

A) Notify student and parents about:

- Importance of earning a diploma
- Need to meet both testing and curriculum requirements to earn a diploma
- Any additional local graduation requirements
- District's policy about participation in commencement ceremony

B) How to access information (test blueprints, previous tests) on the web about OGT:

- <http://education.ohio.gov> and enter *OGT* in the search box

C) OGT test administrations before graduation:

- Spring of 10th grade
- Summer between 10th and 11th grade (optional)
- Fall and spring of 11th grade
- Summer between 11th and 12th grade (optional)
- Fall and spring of 12th grade

D) How to access previous graduation tests:

- *OGT Reading and Mathematics*
- <http://education.ohio.gov> and enter *previous OGT tests* in the search box

III. Alternative Way to Meet the Testing Requirements

A student may meet the testing requirements for passing all five Ohio Graduation Tests if he/she meets **ALL** of the following criteria:

- Passes 4 of the five tests and has missed passing the 5th test by no more than 10 points;
- Has a 97 % attendance rate, excluding any excused absences, through all four years of high school and must not have had an expulsion in high school;
- Has at least a grade point average of 2.5 out of 4.0 in the courses of the subject area not yet passed;
- Has completed the high school curriculum requirement;
- Has participated in any intervention programs offered by the school and must have had a 97 % attendance rate in any programs offered outside the normal school day; and
- Has letters recommending graduation from the high school principal and from each high school teacher in the subject area not yet passed.

NOTE: As specified in the Ohio Revised Code (Section 3313.615), this alternate way to meet the testing requirement only applies to students graduating after September 15, 2006.

Comparison of Diplomas with Honors Criteria

Students need to fulfill all but one criterion for any of the following Diplomas with Honors

Subject	<u>High School Academic Diploma with Honors Graduating Classes 2010 and Before</u>	<u>High School Academic Diploma with Honors Graduating Classes 2011 and Beyond</u>	<u>Career-Technical Diploma with Honors for Graduating Classes 2010 and Before</u>	<u>Career-Technical Diploma with Honors for Graduating Classes 2011 and Beyond</u>
English	4 units	4 units	4 units, which may include one unit of applied communication	4 units
Mathematics	3 units, including Algebra I, Geometry, Algebra II or a three-year sequence of courses that contain equivalent content	4 units, including Algebra I, Geometry, Algebra II or equivalent and another higher level course or a four-year sequence of courses that contain equivalent content	3 units, including Algebra and Geometry, or a sequence of courses that contain equivalent content	4 units, including Algebra I, Geometry, Algebra II or equivalent and another higher level course or a four-year sequence of courses that contain equivalent content
Science	3 units, which develop the concepts for physical, life, and earth and space sciences	4 units, including physics and chemistry	3 units, which develop the concepts for physical, life, and earth and space sciences	4 units, including physics and chemistry
Social Studies	3 units	4 units	3 units	4 units
Foreign Language	3 units, including at least 2 units in each language studied	3 units, including at least 2 units in each language studied	2 units, or 2 units of business/technology, or one unit each	Not counted toward requirements
Fine Arts	1 unit	1 unit	May be counted toward requirements under Electives	Not counted toward requirements
Career-Technical	Not counted toward requirements, and may not be used to meet requirements	Not counted toward requirements, and may not be used to meet requirements	3 units in the vocational or technical education curriculum	Now counted in Electives
Electives	Either 1 unit of business/technology and 2 units of above or 3 units of the above subject, not including career-technical	Not counted toward requirements	2 units of above categories, including fine arts	4 units of Career-Technical minimum. Program must lead to an industry recognized credential, apprenticeship, or be part of an articulated career pathway which can lead to post secondary credit.
Grade Point Average	3.5 on a 4.0 scale	3.5 on a 4.0 scale	3.5 on a 4.0 scale	3.5 on a 4.0 scale
ACT/SAT Score [excluding scores from the writing sections]*	27 ACT / 1210 SAT	27 ACT / 1210 SAT	27 ACT / 1210 SAT	27 ACT / 1210 SAT
Additional Assessment	Not applicable	Not applicable	Complete a career passport that reflects achievement of the occupational proficiency benchmark established for the Ohio vocational competency assessment or the equivalent	Achieve proficiency benchmark established for appropriate Ohio Career-Technical Competency Assessment or equivalent

*Writing sections of either standardized test should not be included in the calculation of this score.
 Diploma with Honors requirements pre-suppose completion of all high school diploma requirements in Ohio Revised Code including:
 ½ unit physical education**, ½ unit health, ½ unit in American history, and ½ unit in government

Important!!! Students who are Pell Grant Eligible and have completed a rigorous HS course of study (i.e. Honors Diploma) may be eligible for this the Academic Competitiveness Grant (ACG) on the FAFSA. The Academic Competitiveness Grant (ACG) is for first-year undergraduate students (eligible to receive up to \$750) and second-year undergraduate students (eligible to receive up to \$1,300). The ACG eligibility criteria are listed on the website (www.fafsa.ed.gov). So, if you are filling out your FAFSA and you are prompted with a question asking if you believe you are eligible for the ACG, respond "yes".

How to calculate your Grade Point Average (GPA):

(Point Value) x (Credits Earned) = (Quality Points)

$$\text{GPA} = \frac{\text{Sum of quality points}}{\text{Sum of credits earned}}$$

Sample Cumulative GPA calculation for a student in the class of 2012 after 4 semesters:

Freshman Courses:

1 st Semester:	Alpha Mark	Point Value	Credits Earned	Quality Points	2 nd Semester:	Alpha Mark	Point Value	Credits Earned	Quality Points
Biology	A-	3.67	0.5	1.835	Biology	A	4.00	0.5	2.00
Am. History	B+	3.33	0.5	1.665	Am. History	A-	3.67	0.5	1.835
English 9	A	4.00	0.5	2.00	English 9	A	4.00	0.5	2.00
Algebra I	C+	2.33	0.5	1.165	Algebra I	B	3.00	0.5	1.50
Band	B+	3.33	0.5	1.665	Band	A-	3.67	0.5	1.835
Health	B+	3.33	0.5	1.665	Phys. Ed.	A	4.00	0.25	1.00
Ag. Sci. 1	A-	3.67	0.625	2.294	Ag. Sci. 1	B+	3.33	0.625	2.081
Sum			3.625	12.289	Sum			3.375	12.251

Sophomore Courses:

1 st Semester:	Alpha Mark	Point Value	Credits Earned	Quality Points	2 nd Semester:	Alpha Mark	Point Value	Credits Earned	Quality Points
Chemistry	B+	3.33	0.5	1.665	Chemistry	A-	3.67	0.5	1.835
Government	B+	3.33	0.5	1.665	Economics	A	4.00	0.5	2.00
English 10	A	4.00	0.5	2.00	English 10	A	4.00	0.5	2.00
Algebra II	B-	2.67	0.5	1.335	Algebra II	B+	3.33	0.5	1.665
Spanish I	A	4.00	0.5	2.00	Spanish I	A	4.00	0.5	2.00
FCS I	A-	3.67	0.625	2.294	FCS I	B	3.00	0.625	1.875
Sum			3.125	10.959	Sum			3.125	11.375

$$\text{CUMULATIVE GPA} = \frac{(12.289+12.251+10.959+11.375)}{(3.625+3.375+3.125+3.125)} = \frac{46.874}{13.25} = 3.538$$

FRHS Grade Point Average (GPA) Values:

Alpha Mark	Point Values (Class of 2009, 2010, & 2011)	Point Values (Class of 2012 and beyond)
A+	4.0	N/A
A	4.0	4.00
A-	4.0	3.67
B+	3.0	3.33
B	3.0	3.00
B-	3.0	2.67
C+	2.0	2.33
C	2.0	2.00
C-	2.0	1.67
D+	1.0	1.33
D	1.0	1.00
D-	1.0	0.67
F	0.0	0.00

Please Note: The point values for the class of 2012 and beyond will not correctly be reflected on student transcripts and grade cards until the 2011-2012 school year. If you'd like to see your true GPA, an "Excel GPA Calculator for the class of 2012 and beyond" can be found on the FRHS Guidance Website (<http://www.noacsc.org/mercer/fr/frhs/guidance/guidance.html>) or via the FR Homepage by clicking on Online Grades (under "Homework")>Access Progress Book>Ft. Recovery>Excel GPA Calculator.

Grading Scales can be found in the Student Handbook.

FRHS Course Offerings 2009-2010 (edited 1-30-09)

- An * indicates that a teacher signature is required to register for this course.
- All courses listed in this guide are full year courses unless otherwise noted.
- Courses that are shaded will **NOT** be offered in 2009-2010

Code	Course Title	Credits	Grade
AGRICULTURE			
3510	Ag Science 1	1.25	9-12
3520	Ag Science 2	1.25	10-12
5300	Ag Business 1	1.25	11-12
<i>The following 2 courses are to be taken concurrently...</i>			
5400 & *5410	Ag Business 2 & Ag Business 2 Co-Op	1 2	12
BUSINESS AND TECHNOLOGY			
7310	Accounting 1	1	10-12
*7410	Accounting 2	1	11-12
2430	Bus. Math & Finance	1	11-12 (NOT offered in '10-'11)
7500	Comp. Presentations (sem.)	0.5	10-12 (offered in '10-'11)
7520	Comp. Programming (sem.)	0.55	10-12 (offered in '10-'11)
7510	Basic Web Design (sem)	0.5	10-12 (formerly Web Design)
*7610	Advanced Web Design (sem)	0.5	10-12 NEW!
*7530	Comp. Hard. & Software (sem.)	0.5	11-12 (not offered)
*7010	Office Practice	0.5	10-12
*1010	Info. Skills/Library	0.5	9-12
*1015	Info. Skills/Library (sem.)	0.25	9-12
*0050	Tech Assistant	0.5	9-12
*0055	Tech Assistant (sem.)	0.25	9-12
1510	Cr. Wr. 1: Newspaper	1	10-12
1520	Cr. Wr. 2: Yearbook	1	10-12
*1540	CW 3: Telecommunications	1	9-12 (Co-Lab)
*1545	CW 3: Telecommunications (sem)	0.5	9-12
ENGLISH			
1110	English 9	1	9
1210	English 10	1	10
*1310	English 11	1	11
*1330	Advanced Eng. 11	1	11
*1410	English 12	1	12
*1900	AP Lit. & Composition	1	12
*1430	Bus. English & Comm.	1	12
FCS (most offered in p.m.)			
6130 & 6120	FCS 1 (2 codes)	1.25	9-12
6220 & 6230	FCS 2 (2 codes)	1.25	10-12 (not offered)
6530	Nutrition (sem.)	0.5	10-12
6520	Human Development (sem.)	0.5	11-12
6430	Independent Living (sem.)	0.5	10-12
6420	Career Planning (sem.)	0.5	12 (+ Ind. Living??)
FINE ARTS (most offered in p.m.)			
9510	General Art	1	10-12
9515	General Art (sem.)	0.5	10-12
*9530	Advanced Art	1	11-12
*9535	Advanced Art (sem.)	0.5	11-12
9520	Photography (sem.)	0.5	11-12
9540	Computer Graphics (sem.)	0.5	11-12
9545	Art History (sem.)	0.5	11-12
9630	Show Choir	1	11-12 +Boys (7 th pd.)
9620	Vocal Music (Choir)	1	9-10 (Girls only, 8 th pd.)
9610	Instrumental Music (Band)	1	9-12 (1 st period)
9650	Color Guard (1 st 9 wks-only request if not in Band.)	0.25	9-12 (1 st period)
9645	Music Theory (sem)	0.5	10-12 (not offered)
9655	Music Appreciation (sem.)	0.5	10-12 (not offered)
FOREIGN LANGUAGE			
1140	German 1	1	9-12 (final year)
1240	German 2	1	10-12
1340	German 3	1	11-12 (not offered)
1440	German 4	1	12
1180	Spanish 1	1	9-12
1280	Spanish 2	1	10-12
1380	Spanish 3	1	11-12
1480	Spanish 4	1	12 (not offered)

Code	Course Title	Credits	Grade
HEALTH and P.E.			
8110	Health Education (sem.)	0.5	9-12
8120	Phys. Ed. 9 (sem.)	0.25	9-12
8300	PE Strength & Conditioning	0.5	9-12 (8 th pd.-- Boys)
8305	PE Strength & Cond. (sem.)	0.25	9-12
8301	PE Strength & Conditioning	0.5	9-12 (7 th pd??- Girls)
8220/8225	PE Aide	0.5/0.25	(3-6 students)
8320	Elective P.E. (year)	0.5	10-12 (not offered)
8325	Elective P.E. (sem)	0.25	10-12 (not offered)
INDUSTRIAL TECH			
5110	Industrial Tech 1	1	9-12
5115	Industrial Tech 1 (sem.)	0.5	9-12
5210	Industrial Tech 2	1	10-12
5215	Industrial Tech 2 (sem.)	0.5	10-12
*5510	Industrial Tech 3 & 4	1	11-12
INTERVENTION			
*INT	Intervention	0.5	9-12 (Required for students on an IEP or 504 plan)
MATHEMATICS			
*2130	Pre-Algebra	1	('09-'10 is the last year for this course)
*2110	Algebra 1	1	9-12
*2310	Algebra 2	1	9-12
*2210	Geometry	1	10-12
*2410	Advanced Math	1	11-12
*2630	AP Calculus	1	12
*2430	Bus. Math & Finance	1	11-12
*2440	Life Skills Math	1	11-12 (not offered)
PROJECT LEAD THE WAY (Engineering)			
5150	IED: Intro to Engr. Design	1	9-12
5250	POE: Principles of Engr.	1	10-12
5350	CIM: Computer Int, Mnfg.	1	11-12
5450	EDD: Engr Design & Dev.	1	12 NEW!
SCIENCE			
3210	Biology	1	9-12
3211	PLTW Biology	1	(for 9 th graders in IED)
*3320	Action Chemistry	1	10-12
*3310	Chemistry	1	10-12
*3311	PLTW Chemistry	1	(for 10 th graders in POE)
*3900	AP Chemistry	1	11-12 (5 th period)
*3410	Physics + Study Hall	1	11-12
*3340	Anatomy/Physiology	1	11-12
*3220	AP Biology	1	11-12 (5 th period??)
SOCIAL STUDIES			
4390	American History	1	9-12
4420	Gov/t, Econ & Fin. Literacy	1	10-12
4210	World History	1	12
*4220	AP World History	1	12
4510	Sociology	1	11-12
4515	Sociology (sem)	0.5	11-12
4525	Psychology (sem)	0.5	11-12 (+ Human Dev.??)
MISC. ELECTIVES			
*Tutor	HS Tutor	0.5	NEW!
*5420	CNC Manufacturing	1	10-12 (offered in '10-'11)
*5520	Bldg. Maintenance & Design	1	11-12 (NOT offered in '10-'11??)
0080	Early Dismissal	0	12 (end school after 7 th period)
0085	Early Dismissal (sem)	0	12 (end school after 7 th period)
0090	Late Arrival	0	12 (Begin school 2 nd period)
0095	Late Arrival (sem.)	0	12 (Begin school 2 nd period)
*PSEO	Post-Secondary Enrollment Option		9-12 (College Classes)
*See	Tri- Star	3	11-12
Mrs. Kaiser			

AGRICULTURE

Agri-Science 1-- ½ science credit, ¼ elective (total 1.25 credits): This course is an introduction to the science of agriculture. Major areas will include: Ohio & US agriculture, plant anatomy, animal industry and anatomy, water and soil quality. Lab work will emphasize wood construction. FFA is an integral part of the course. A home project is required with records and is worth ¼ credit.

Agri-Science 2-- ½ science credit, ¼ elective (total 1.25 credits): Plant growth and regulation, hydroponics, soil science, crop science, animal nutrition, and communications are all areas of study. Lab work will emphasize welding, metal fabrication, and concrete. Business and professionalism is also included. FFA is an integral part of the course. A home project is required with records and is worth ¼ credit.

Prerequisite: Agri-Science 1

Agri-Business 1—1.25 credits: Classroom work will consist of basic business organization, money management, record keeping, dairy science and landscaping. Lab work will emphasize construction, welding, metal fabrication, and electricity. A home project is required of all students.

Prerequisite: Agri-Science 2

Agri-Business 2 - 1 credit: Classroom work will consist of farm management, advertising, human relations, agri-business marketing, taxes, insurance & government agencies, international business and personal development. Lab work will emphasize small engines and hydraulics. A home project is required of all students. All students will be required to also take AB 2 Co-Op, unless otherwise approved by the instructor.

Prerequisite: Agri-Business 1

Corequisite: Agri-Business 2 Co Op

Agri-Business 2 Co-Op—2 credits: Co-Op is a work-study program where participants have an *approved* agriculturally related job averaging 15 hours per week. Early dismissal is allowed. **Students must be enrolled in Agri-Business 2 in order to participate in Co-Op, and must have a (minimum) 2.0 cumulative GPA to participate.** This course requires instructor approval.

Corequisite: Agri-Business 2

BUSINESS AND TECHNOLOGY

Accounting I—1 credit: Accounting I is a first-year accounting course with a focus on double-entry accounting and Generally Accepted Accounting Principles. Students will learn how to analyze transactions and prepare financial statements. Accounting students will participate in manual and computerized accounting activities. This class includes a year-end business simulation.

Prerequisite: Sophomore, Junior, or Senior standing and Algebra 1

Accounting II—1 credit: Accounting II is a second-year accounting course that builds on the concepts learned in Accounting I. Students will create and analyze financial statements, research and evaluate companies, and create more complex financial statements. Excel is used throughout this course. This course requires instructor approval.

Prerequisite: Accounting I

Business Mathematics and Finance—1 credit: Business Math and Finance is a class designed for students who have an interest in business or intend to major in business. Students will learn a variety of business concepts including personal income taxes, financial ratios, mortgages, annuities, amortization, and the time value of money. Students will learn personal and corporate finance and investment strategies. In addition, students will study the stock market, cost of capital, inflation, and other business and mathematical concepts. Excel is used throughout this course. This course can be applied towards a student's three-year math requirement *OR* as the one-credit requirement for Business/Technology/Fine Arts.

Prerequisite: Algebra 1

Computer Presentations—1/2 credit (1 semester): Students will learn to create business presentations using Microsoft Office software. This class will focus on Microsoft Excel and PowerPoint. Excel will be used to create charts and graphics. Students will use PowerPoint and Moviemaker to create projects and presentations including an electronic photo album.

Computer Programming—1/2 credit (1 semester): Computer Programming will introduce students to several popular programs and databases used in business today. Students will start with Microsoft Access 2003 as an introduction to computer programming concepts. Students will use Visual Basic.net in order to create sample programs. They will also have the opportunity to create their own custom programs and games during this course.

Basic Web Design—1/2 credit (1 semester): Students will design and create web pages using HTML and Cascading Style Sheets (CSS). This class will focus on basic structure and design concepts. Each student will create sample web pages and will have the opportunity to create their own web pages throughout the semester.

Advanced Web Design—1/2 credit (1 semester): Advanced Web Design builds upon the concepts taught in Basic Web Design. Students will learn how to make more complex Web Pages using HTML and CSS. Students will also spend a large portion of their time help the instructor updating the school web site and creating special projects. This class requires instructor approval.

Prerequisite: Basic Web Design

Computer Hardware and Software—1/2 credit (1 semester): Students will learn important concepts dealing with operating systems and other software. This class will also focus on computer hardware. Students will learn about the components that make a computer work. They will disassemble and reassemble computers in order to learn more about how they operate. Students will use Windows XP in this course. Hardware and Software is offered upon need. This class requires instructor approval.

Prerequisite: One semester of any computer or business class.

Office Practice — .5 credit: Students will get practical experience in basic office practices: taking and delivering messages, copying papers, and recording attendance. Students are expected to be regular in attendance and dependable in carrying out tasks. The credit is in business and a grade of Pass/Fail will be assigned. Only one person per class period will be selected for this course each semester. This course requires approval by Mrs. Grube or Mrs. Wenning.

Information Skills (Library Aide)-- .5 credit (year)/ .25 credit (semester): Students will gain knowledge of library-media center operations. Online and reference sources will be used in developing effective research techniques. Only two to three students will be selected for this course per period. This course requires approval by Mrs. Pottkotter.

Tech. Assistant-- .5 credit (year)/ .25 credit (semester): Technology Assistants are an integral part of our technology support at FRHS. They report to Mr. Hamrick or Mr. Summers for their daily assignments. Tasks include web site design and maintenance; daily PC support; special application projects; network troubleshooting; new equipment configuration and installation; etc. Students have the opportunity to take on-line technology courses and participate in various technology conferences during the year. Grades in this course will be Pass/Fail. This course is limited to 2-4 students per period. This course requires approval by Mr. Jutte or Mr. Summers.
Prerequisites: Web Design and Computer Hardware & Software are highly recommended

Creative Writing I (Newspaper)—1 credit : This class will publish the Fort Site Journal monthly from September through May. Students will be responsible for writing articles, proofreading, writing captions and headings and learning page layouts using Adobe PageMaker. Grades are based on class participation, quality of work, attention to deadlines and limited testing. This class requires some out-of-class work. Students may repeat this course for additional credits. Applications for leadership positions (editor, copy editor) can be picked up from the instructor. This course is open to sophomores, juniors and seniors.
Prerequisites: Typing skills and a "B" average in English are required

Creative Writing II (Yearbook)—1 credit: This class will publish the Chant. Students will be responsible for taking pictures, designing layouts, editing copy, selling ads and selling yearbooks. This class requires out-of-class work. Students will be graded on class participation, quality of work, attention to deadlines, homework, and limited testing. Applications for leadership positions (editor, copy editor) can be picked up from the instructor. This course is open to sophomores, juniors and seniors.

Creative Writing III (Telecommunications/Co-Lab)—1 credit: Open to all grade levels, this course will concentrate on the skills needed to write, plan and produce programming for the local cable channel. Students will learn the skills of: news writing, videotaping, editing, scheduling, speaking on camera, interviewing, public speaking, and compiling video tape footage to produce special projects about issues or events. Class size will be limited to 15 students per period. This course requires instructor approval from Mrs. McClung.

ENGLISH

English 9 – 1 credit: The course deals with grammar and composition writing among other focus areas. The Writer's Craft is used as a textbook, but it is also supplemented with exercises from other sources. Vocabulary and reading exercises are frequent and are used in preparation for the Ohio Graduation Test as well as for general skill improvement. English 9 also deals with the various forms of literature such as short stories, articles, poetry, novels, drama and essays. The Language of Literature serves as the primary literature text. Independent reading of student-selected material is also included. Various oral presentations are required throughout the course.

English 10 – 1 credit: Literature is used as a base to integrate the language arts. Grammar and usage will be taught in conjunction with the writing process and particular student needs. Descriptive, a narrative, expository, and persuasive compositions will be taught as well as the process of writing a complete research paper. Vocabulary development and reading skills will also be taught in preparation for the OGT. The books The Language of Literature and Writer's Craft are used. Independent reading of student-selected material is required.

English 11 – 1 credit: Grammar and composition skills are further developed in this course as the junior edition of The Writer's Craft works with supplemental exercises from other sources. American literature is studied and analyzed with The Language of Literature as the primary source of literature, with outside publications also used. Independent reading of student-selected material is also included. Narrative and persuasive projects serve as just two of the oral presentations given in this course. The production of a research paper and the beginning stages of the Career Passport Book take place in English 11. This course requires instructor approval.

English 11 (Advanced)—1 credit: This course is designed for those who want to advance their writing and reading skills. An emphasis is placed on expository, analytical, and argumentative writing, the basis of academic and professional communication, as well as personal and reflective writing, which foster the development of writing in any context. The process of developing a composition is emphasized as well as vocabulary development, sentence structure, organization, generalization and detail, and an effective use of rhetoric. An intense study of American literature is included as well as beginning work on the career passport. The book The Language of Literature is used. Independent reading of student-selected material is required. The students who take the class should be limited to those who show potential in their writing and those who have a sincere interest in further developing their writing skills. This course requires instructor approval.

Business English & Communications—I credit: Business Communication covers the components of written, verbal, and non-verbal communications in a business environment. Student will learn to create business documents including memos, letters, brochures, pamphlets, reports, web pages, and email. This class will also focus on improving public speaking skills. Business Communications will cover occupational skills including the application and interview processes. This course requires instructor approval.
Prerequisite: Senior standing

English 12—1 credit: Two primary areas of study are covered: A general overview of British literature and grammar/ composition improvement. The course is devoted to various genres of British literature (poetry, short stories, drama and novels) with an occasional view of American literature, as well. Compositions are often written in response to the literature. Philosophical and literary trends will be studied in connection with literary forms. Grammar and other forms of written compositions will also be studied, and a research paper is included in the writing requirements. In addition, The Career Passport book is completed in English 12. Oral presentations of different formats are given, including at least one dealing with British writers and literature. The Language of Literature series is once again used- but not exclusively – as a literature source. Independent reading of student-selected material is also required. This course requires instructor approval.

AP Literature & Composition—1 credit: The Advanced Placement Literature & Composition is an introductory college-level course in the reading and critical analysis of literature. It is concerned with language as a symbolic process and with literature as experience preserved in language. AP Lit & Comp is offered for those students who are capable and willing readers. An intense study of literature, including the novel, short fiction, poetry, and drama will be accompanied by responding to the literature orally and through writing. At least twelve major works will be studied in depth. This course requires instructor approval.

FAMILY AND CONSUMER SCIENCES (FCS)

FCS I—1.25 credits: This course is an introductory class giving a general overview of the field of Family and Consumer Sciences. Students will have the opportunity to learn basic skills necessary for daily living. Food and nutrition, child development, career planning, managing money, housing and interior design, and personal, family and community relationships will be studied. Class members join the student organization, Family, Career and Community Leaders of America (FCCLA) and will be involved in the planning and participation in school and community service projects. A lab fee is required. This course is open to students in all grades.

FCS II—1.25 credits This course provides an in-depth study of the field of Family and Consumer Sciences. Food and nutrition, child development, career planning, managing money, housing and interior design, and personal, family and community relationships will be studied. Class members join the student organization, Family, Career and Community Leaders of America (FCCLA) and will be involved in the planning and participation in school and community service projects. A lab fee is required. This course is open to students in all grades.

Nutrition—1/2 credit (1 semester): This course gives the student a basic knowledge of foods and nutrition, as well developing food preparation skills. Students will study nutritional needs throughout life, cooking from the food groups, sports nutrition, creative cooking and international cooking. Class members will be involved in the planning and participation of school and community service projects related to foods and nutrition through Family, Career and Community Leaders of America (FCCLA.) A lab fee is required. This course is open to sophomores, juniors, and seniors.

Human Development (formerly Child Development) - ½ credit (1 semester): This course gives students an introduction and overview to human development. Included in the course are visits to the Fort Recovery Preschool, videos, text, field trips, speakers, classroom projects and class discussions. Class members will be involved in the planning and participation of school and community service projects related to human development. Participation in Family, Career and Community Leaders of America (FCCLA) is encouraged but not required. Human Development is a good elective for students hoping to pursue a career in medicine, psychology, or education. A lab fee is required. This course is open to juniors and seniors.
Suggested Co requisite: Psychology

Independent Living (formerly On Your Own) - ½ credit (1 semester): This course is designed to help students learn about living on their own. It will focus on the knowledge, attitudes, and skills needed by adults to lead independent lives. We will study topics such as managing finances, use of credit, buying and insuring cars, protecting against identity theft, renting and buying housing, saving and investing, and workplace success. The course is a good complementary second semester course for seniors who take Career Planning. This course is open to sophomores, juniors and seniors.

Career Planning—1/2 credit (1st semester): Need a course that helps get you on the right path after high school? Unsure of where that path will take you? Are you very busy with high school activities and need class time to prepare college applications, scholarships, and job applications? This may be the course for you! Applying for jobs and/or college or technical school entrance is the focus of this course. Career exploration, interest surveys, studying skills beyond high school, interviewing and job skills, and preparing for life "on you own" will be stressed. Scholarship searches, applications and filing the FAFSA (Free Application for Federal Student Aid) will also be covered. Students will have the opportunity to visit with college/technical school representatives in the classroom and on college visits. A variety of career speakers and observe visits to local businesses and industries will be a part of this course. Preparation for the ACT will be included as it fits students' needs. . Students will be graded on a pass/fail system. This course is open to seniors only and is taught 1st semester
Suggested Co requisite: Independent Living

FINE ARTS

General Art—1 credit: Basic knowledge dealing with the essential elements and principles of design and composition. Color theory, techniques, vocabulary, art history appreciation is reviewed or taught before more in-depth studies begin. Activities to help this learning experience are projects in two-dimensional and three-dimensional design, drawing, sketching, painting, graphics, perspective (one and two point), head and figure drawing. This course is open to students in grades 10, 11, and 12.

Advanced Art—1 credit: This course will prepare the student for more freedom of choice in doing more complicated art forms. Students will do in-depth studies in areas of drawing, painting, sculpture, ceramics in two and three dimensions that appeal and seem to be best suited to his or her particular skills. This course can be taken for more than one year. This course requires instructor approval.
Prerequisite: General Art

Photography—1/2 credit (one semester): This is a study of the 35mm camera and the digital camera. Basic dark room techniques in developing black and white film and prints will be experienced with students doing their own film and photos. Students will be instructed in how to construct good photographic compositions. Digital cameras will be used with printing techniques being done on a printer. This course is open to students in grades 11 and 12.

Fiber Crafts-- ½ credit (one semester) This course will be a concentrated study of fibers and how they are used now and in the past. Students will study various crafts such as papermaking, basket- weaving, rug- making, tie-dyeing, soft sculpture and candle-making. This course is open to students in grades 11 and 12 (limit 15 students).

Computer Graphics—1/2 credit (one semester): This course will cover the following topics:

1. Designing home pages and web pages with the use of original art and backgrounds. 2. Introduction to software programs such as Publisher, Adobe Photoshop and CorelDraw and Paint programs. 3. Hand-drawn digital images done on the computer for various types of advertising such as c-d covers, magazine covers, package design, menus, travel brochures, newspaper advertising, and book covers etc. Digital cameras will be used to do designs for various projects. This course is open to students in grades 11 and 12.

Art History—1/2 credit (one semester): This course will be a concentrated course on art and how it plays a part in our past history. Students will study different styles of art, the 'why', and 'how' these artists did their art. Some art projects will be done in the style of the artists. Written papers, Power Points and oral presentations will all be a part of the requirements. This course is open to students in grades 11 and 12.

Show Choir—1 credit: The Show Choir is a group of students who want to actively participate in musicals, concerts, and contests. It involved singing, dancing and sight-reading. There are 3-4 major performances a year plus a musical every other year. Grading is mostly based on attendance and participation at mandatory events. This group is for senior and junior girls, and any males who wish to join the choir.

Vocal Music—1 credit: This group is for ninth and tenth grade girls and is in preparation for Show Choir. The requirements are the same as the Show Choir. There are 3-4 major performances a year plus a musical every other year. Grading is mostly based on attendance and participation at mandatory events.

Instrumental Music—1 credit: The instrumental department consists of two basic performing groups, the marching band during the summer and fall, and the concert band during winter and spring. Other performing groups are the high school pep band and various smaller ensembles. The focus of band is intended to be a positive musical performance.

Color Guard-- .25 credits (1st nine weeks): Students will learn, practice, and perform routines using flags and various other props. The flag corps accompanies the marching band to all of the contests and performances. Students will learn about music as well as gain physical exercise. The course lasts for the first 9-weeks. The Band Instructor will assign grades. Tryouts will determine who becomes a color guard member. Students must also sign up for a study hall 1st period (which they will not attend until the 2nd nine weeks).

Music Theory—1/2 credit (semester): Offered upon need, Music Theory deals with the analysis and composition of music, is designed for students who wish to learn more about the structure of music, and provides a background for composing and arranging music. The content of the course of study for Music Theory will include a study of the formal, melodic, rhythmic and harmonic structure of music through: aural and visual analysis of the structure of music, basic four part harmony writing, and functional uses of applied theory in making transpositions and arrangements of music.

Music Appreciation—1/2 credit (semester): Music Appreciation is designed to cultivate a broader listening and appreciative attitude towards all types and genres of music. This course will acquaint students with various historical periods of music from its known origins through present day music. Music Appreciation is not theory intensive and can be completed by any student including those with no musical background.

FOREIGN LANGUAGE

German 1—1 credit: German 1 is an introduction to the German language and culture. Basic vocabulary and grammar are stressed. This is reinforced through the use of audio-visual materials.

German 2—1 credit: German II continues the vocabulary, grammar and culture studies. Students who take German I should also take German II to get a basic understanding of the language and its people.

German 3 & 4—1 credit each: Grammar is more of a refinement or review with greater emphasis being placed on culture, literature, writing and speaking. Supplemental readings include stories from magazines and various other sources.

Spanish 1 – (1 credit): Emphasis in this course is on **speaking** the Spanish language. Some of the basics of language learned in this course are: alphabet, hobbies, greetings, ordering in a restaurant and much more! Writing, reading, grammar, culture and cooperative learning are also general areas which are addressed in this course. The textbook *Navegando 1* is used along with additional text materials.

Spanish 2 – (1 credit): This course is a more challenging continuation of Spanish 1. Students should have a **strong understanding of previously learned material** in order to be successful in this class. The textbook *Navegando 1* is used along with additional text materials.

Spanish 3 – (1 credit): A higher level of motivation and ability to produce quality work--both independently and cooperatively--is expected of students in this course. A firm grasp of English grammar is helpful. This is an advanced language course in which more speaking, reading, and writing are done in Spanish. The textbook *Navegando 2* is used along with numerous additional text materials such as magazines, children's books, internet, etc.

Spanish 4 – (1 credit): As with Spanish 3, a higher level of motivation and ability to produce quality work—both independently and cooperatively—is expected of students. This course will contain a comprehensive review of all major tenses and most grammar points. It will also include study of topics such as Spanish and Latin American Literature, Geography, Politics, History and modern Hispanic cultures. Students will purchase and keep a grammar/reference book and a Spanish language magazine in this course. Multiple other resources will be used.

HEALTH & PHYSICAL EDUCATION

Health Education—5 credit: This is a one-semester class that is required of all freshmen. The areas of emphasis are: drug education, decision-making, self-esteem, nutrition, physical fitness, first aid, CPR, sexually transmitted diseases, and death.

Physical Education 9-- .25 credit: PE 9 is required of all freshmen. The emphasis is on team activities and fitness. The students will participate in: pickle ball, ping-pong, basketball, volleyball, the president's fitness test, ultimate Frisbee, flag football, and softball.

PE Strength & Conditioning-- .5 credit (year)/ .25 credit (semester): This course is designed for those students who want to advance their physical fitness level. This class will allow students the opportunity to become bigger, faster, and stronger. This is a fast paced class that allows students to work on: agility, coordination, muscular strength, muscular endurance, speed, power, and cardiovascular endurance. Weightlifting is an integral part of this course.

PE Strength & Conditioning FOR FEMALES-- .5 credit (year)/ .25 credit (semester): This course is designed for those students who want to advance their physical fitness level. The focus for females would be speed, agility, muscle toning, and decreasing body fat. Weightlifting is an integral part of this course

Elective Physical Education-- -- .5 credit (year)/ .25 credit (semester): The class emphasis of Elective PE is competition through team activities. Leagues will be used in various sports. These sports include: basketball, volleyball, ultimate Frisbee, flag football, softball, dodge ball, and ultimate ball.

INDUSTRIAL TECHNOLOGY

Any of these classes can be taken for one semester or for the entire year

Industrial Technology 1 – 1 credit: Industrial Technology 1 has two major themes; CAD is offered one semester and Basic Woodworking is offered the other semester. In CAD, the student will receive information about a career in drafting, work on board drafting, and work on the computer doing CAD. Students will gain a basic knowledge on how CAD works. In Basic Woodworking, the student will develop safety habits when working with power machines, develop woodworking skills, and have the opportunity to be creative.

Industrial Technology 2 – 1 credit: Industrial Technology 2 has two major themes; Architectural Drawing is offered one semester and Advanced Woodworking is offered one semester. In Architectural Drawing, the student will develop an understanding of good house planning, skills in architectural drawing (using CAD), and an understanding of home construction, types of materials used and costs involved.

Industrial Technology 3 & 4 – 1 credit each: This course will consist of an independent project, or projects, of the student's choice, that can be done in any area acceptable to the instructor. Examples of this are woodworking, metals, computer modules, CAD, etc. This course requires instructor approval

INTERVENTION

Intervention—1/2 credit: The majority of this class will focus on providing interventions to enhance student achievement and success in his or her current courses. **Students on an IEP on 504 Plan are required to take Intervention.** Grades in this course are Pass/Fail. This course requires instructor approval.

MATHEMATICS

ALL Math courses require instructor approval.

Traditional math sequence: *Pre-Alg > *Alg 1 > **Alg 2 > **Geometry > Adv. Math > AP Calculus

*Student may begin with Pre-Alg OR Alg 1 (with instructor approval)

**Students may take Alg 2 and Geometry the same year (if desired)

Pre-Algebra– 1 credit: This course provides guidance for a full year of practice in the fundamentals of arithmetic while basic ideas of beginning algebra are introduced and practiced. Topics include: number theory, graphing, statistics, probability, exponents, measurement, real numbers, variables, simple equations, and inequalities.

Algebra I—1 credit: This course is a study of the structure of algebra, of mathematics in general and of the real number system and its use in algebraic techniques. It includes traditional algebraic topics, such as simplifying numerical expressions – including those containing negative exponents, evaluating algebraic expressions, solving equations, investigating linear and non-linear functions, multiplying binomials using FOIL, and basic factoring. The curriculum is based on the ODE Standards, with a goal of helping students be successful on the math portion of the OGT. Thus, there is an emphasis placed on using correct mathematical language and symbolism. Plus, some topics not found in a traditional algebra course are also covered, including geometry and data analysis & probability topics.

Algebra II – 1 credit: A study of algebra as a logical structure, based on axioms from which other statements are proven. In teaching the concept of function, properties of the number system, basic algebraic processes, and set language are reviewed and extended. Additional topics include negative and fractional exponents, polynomials, complex numbers, and exponential and logarithmic functions. Application to trigonometry, geometry and science are presented. *This course is taken after Algebra 1.*

Geometry—1 credit: With an emphasis on developing logical thinking skills, students will use inductive and deductive reasoning to discover basic geometric relationships in Euclidean geometry. Basic trigonometry will be introduced. The use of correct mathematical language and symbolism will be expected of students. *This course is generally taken after Algebra 2, but can be taken concurrently with Algebra 2 (with instructor approval).*

Advanced Math – 1 credit: This is a mathematics course bridging the gap between Algebra II and college Calculus. It includes analytic geometry, trigonometry, and advanced topics from Algebra II.
Prerequisites: Algebra 1, Algebra 2, and Geometry

AP Calculus—1 credit: Students learn how to find the tangent line to a circle in Geometry. In AP Calculus, students learn how to find the tangent lines to interesting curves, which leads into exploring rates of change. In previous math courses, students find the area of basic geometric shapes such as triangles, circles, and quadrilaterals. In this course, students find the area under interesting curves, which leads into finding the volume of uniquely shaped objects. A graphing calculator is a definite need. In advanced placement courses, students are expected to spend a minimum of 5 hours a week beyond class time either doing assigned problems or studying.
Prerequisite: Advanced Math

Business Mathematics and Finance—1 credit: This course could also serve as a student's math requirement for graduation. The complete course description can be found in the Business/Technology section of this booklet.
Prerequisite: Junior or Senior standing

Life Skills Math—1 credit: This course will focus on practical applications of mathematics as it relates to life after high school, and is taught by a resource teacher. Students may register for this course by recommendation only.

PROJECT LEAD THE WAY

Project Lead The Way (PLTW) is a national nonprofit organization established to help schools give students the knowledge and experience they need to excel in post secondary education and future engineering fields. PLTW has developed a four year sequence of courses which, when combined with college preparatory mathematics and science courses in high school, introduces students to the scope, rigor and discipline of engineering and engineering technology prior to entering college. However, those not intending to pursue further formal education will benefit greatly from the knowledge

and logical thought processes that result from taking some or all of the courses provided in the curriculum. Articulation agreements with many two and four year universities could result in college credit for successfully completing the sequence of courses **FRHS has an articulation agreement with WSU-LC for up to 14 quarter hours of credit that can be purchased at a rate of \$25 per quarter hour. These credits can be applied to the Associate Degree in Technical Study: Engineering Design Technology or CADD Technology.**

Year 1:

Introduction To Engineering Design (IED)—1 credit: Students use a problem-solving model to improve existing products and invent new ones. Using sophisticated three-dimensional modeling software, students communicate the details of the products. Emphasis is placed on analyzing potential solutions and communicating ideas to others. Freshman will be given priority in scheduling this course.

Co/Prerequisite: Algebra 1

Year 2:

Principles of Engineering (POE)—1 credit: POE is the second of the foundation courses for PLTW and helps students understand the field of engineering/engineering technology. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science, and technology in an engineering problem solving process to benefit people. Sophomores who have completed IED will be given priority in scheduling this course.

Year 3:

Computer Integrated Manufacturing (CIM)—1 credit: Using a three-dimensional model, students employ automation, control systems, sensing devices, computer programming, and robotics to efficiently mass produce a product. Trouble-shooting is emphasized throughout the course.

Prerequisites: IED and POE

Year 4:

Engineering Design and Development (EDD)—1 credit: (proposed for 2009-2010) In this course, teams of students spend the year solving problems of their own choosing. The teams apply principles developed in the preceding foundation courses and are guided by a community mentor. They employ all of the skills and knowledge gained through previous coursework to brainstorm possibilities, research current patents and regulations, construct a working model, test and model in real life situations (or simulation), document their designs, and present and defend the designs to a panel of experts.

Prerequisites: Senior Standing (3 full years of PLTW)

SCIENCE

BIOLOGY – 1 credit: Biology is the study of life. This life science class will teach the student about the relationship between living things and their environmental adaptations, and have a clear comprehension of the significance of life to human welfare. Classroom topics include cell structures and functions, DNA and genetics, evolution, ecology, plant/animal life, and common bacteria and viruses. Laboratory experiments and projects are included in this class, along with written assignments, reading, and tests. All Freshman are required to take Biology.

ACTION CHEMISTRY – 1 credit: A hands-on approach to integrated chemistry with an emphasis on OGT standard curriculum. Major areas of study include: the periodic table, atoms, bonding, pH, energy, chemical reactions, waves, forces and motion. Classroom work includes hands-on lab activities, written assignments, tests and projects. This course requires instructor approval.

CHEMISTRY – 1 credit: Chemistry is the science dealing with the structure and composition of materials and the changes in the composition of these materials. Some topics include writing and balancing chemical equations, the Periodic Table, solids, liquids and gasses, and acids and bases. Laboratory experiments are done to produce experiences in identifying and analyzing substances, in observing chemical reactions and in handling chemicals safely. Classroom work includes reading and written assignments, math problems, tests, laboratory activities and several short-term projects. Math skills equivalent to Algebra I required. This course requires instructor approval.

AP CHEMISTRY – 1 credit: The Advanced Placement Chemistry course is designed to be the equivalent of the general chemistry course taken by students in a first year college course. This course is recommended to be taken immediately after the chemistry course. The course should contribute to the development of students' abilities to think clearly and to express their ideas with clarity and logic. An extensive laboratory experience is a major part of the course. A greater number of topics are covered as compared to a regular course and it is assumed that the student will spend at least six hours per week in unsupervised study. This class is open to juniors and seniors and includes lectures, homework, tests, and laboratory activities. Students are eligible to take the AP exam in the spring with the possibility of earning college credit. A grade of B or higher in Algebra II and General Chemistry preferred. This course requires instructor approval.

Prerequisite: Chemistry

PHYSICS – 1 credit: Physics is primarily a study of motion, gravity, light, and electricity and requires an interest in natural phenomena, mathematics ability at the Algebra II level, and an ability to solve problems. Classroom work includes reading assignments, problem solving, laboratory experiences, tests, and several short-term projects. Physics is recommended for students considering a career in engineering and is open to seniors with juniors by recommendation only. This course requires instructor approval.

ANATOMY/PHYSIOLOGY – 1 credit: This course is open to juniors and seniors, and is recommended for students interested in a health or biology related career. The systems of the body will be discussed in detail, as well as medical terminology. Students will develop laboratory skills needed for college lab situations. Students will also be comparing the human anatomy to dissected specimens, including fetal pigs, sheep hearts, sheep brains, and others. Written assignments, readings, laboratory exercises, tests, and projects are included in the course. This course requires instructor approval.

AP BIOLOGY (formerly Biology II) – 1 credit: Advanced Placement Biology is designed to be equivalent to a two-semester Biology course taken during the freshmen year of college. This life science course is designed for students that have a strong interest in, or a desire to pursue a career in, the sciences. This class will focus on three major themes: molecules and cells, heredity and evolution, and organisms and populations. This class is open to juniors and seniors and includes: written assignments, laboratory exercises, readings, projects, and tests. AP courses require extensive study outside of class, therefore requiring extra student effort in order to successfully complete the course. Students may take the AP Biology exam in May if they choose, with the possibility of attaining college credit. This course requires instructor approval.

Prerequisites: Biology and Chemistry

SOCIAL STUDIES

AMERICAN HISTORY – 1 credit – American History is required for all students enrolled in the freshmen class. It is a story of the origin of our country which includes the reasons for the discovery of the land, and why we rebelled against our mother country. It includes the problems we have encountered in our attempt to establish a new government. It relates to our successful and unsuccessful attempts at solving these problems. In short, it presents an objective and interesting story of the past accomplishments and failures of the country in its attempt to solve the foreign and domestic problems of the country. It concerns itself with the personalities who have been involved in the movement, which has brought us to our present position in the world. All Freshman are required to take this course.

GOVERNMENT, ECONOMICS AND FINANCIAL LITERACY –1 credit – American government is the study of the structure, the organization, and the function of the government on the federal, state, and local level. It considers the vast authority given to the government and also the limitations and restrictions that are placed on the power of the government officials to act in what they consider to be the best interests of the people. It puts emphasis on the importance of individual participation in government affairs, so that we will always retain a government that will satisfy the needs of all the people. This course also introduces basic economic principles, how to apply these principles, and how these principles relate to the American economic system of free enterprise. A portion of this course will focus on financial literacy (income, budgets, savings, credit, interest, and investments). All Sophomores are required to take this course.

WORLD HISTORY – 1 credit – World History is a survey of world cultures including European cultures from Hellenic civilization to the present principle areas of the Middle East and Africa, as well as North and South America. Particular emphasis is placed on concepts and institutions including politics, economics, cultures and religions in historical perspective. Consideration is given as well to contemporary problems of each of the above geographic areas in order to widen the student's scope of understanding concerning the world as it is today. World History is required for Seniors.

AP WORLD HISTORY – 1 credit – AP World History is a college-level survey course designed to develop a greater understanding of the historical development of global processes and contacts, in interaction with different types of human societies. This historical understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. AP courses require intensive study at an increased pace thus requiring extra student effort in order to successfully complete the course. This course requires instructor approval and is open only to Seniors.

SOCIOLOGY – 1 credit (year) or ½ credit (semester) – Sociology studies the implications and consequences of the reality that people are human and social animals. Beginning with a survey of basic sociological concepts, the course concludes with consideration of several social institutions including religion, family and marriage, economics and education. In addition, social problems including crime and violence, drug abuse, poverty, mental illness, ecology, conservation of resources, and American race relations are explored in order that students might better understand the scope of life outside the local community. The course may be taken in grades 11 or 12.

PSYCHOLOGY – ½ credit (semester): Psychology is the study of human behavior. Topics include: historical researchers and methods, brain and behavior, personality, memory, learning, and development. This course is open to juniors and seniors.

Suggested Co requisite: Human Development

MISCELLANEOUS ELECTIVES

HS TUTOR – 0.5 credit: Students will assist in the HS Intervention Room as peer tutors. Peer tutors must demonstrate considerable knowledge in one or more desired subject areas and must be able to clearly communicate with others. This course requires instructor approval (preferably Mr. Niekamp or Ms. Kaiser).

CNC MANUFACTURING – 1 credit (year): This course will introduce CNC (Computer Numerical Code) manufacturing in metal and wood using a plasma torch and wood router. The course will emphasize the following:

- Learning Corel Draw Software, Rams G-Code Generating Software, and WinCNC Controlling Software.
- Mass production and manufacturing of fundraising items.
- Potentially partnering with local businesses for mass production of parts.
- Design and manufacturing of individual projects.
- Industry tours of local CNC manufacturing.

Shop skills required. This course requires instructor approval (Mr. Gower).

Prerequisites: Agri-Science, Agri-Business, Industrial Tech, or Computer Graphics

BUILDING MAINTENANCE & DESIGN– 1 credit: Students in this class will discuss and work on many aspects of the design, construction, and maintenance in and around a home or business. Topics for the class will be concrete, construction, electricity, plumbing, metal working, landscaping, small engines, equipment maintenance, and installation of small equipment. Class will be 50% classroom work/ 50% lab work. This course is open to juniors and seniors, and is limited to 16 students. Preference will be given to those students who have taken Industrial Tech or Agriculture Education classes previously. This course requires instructor approval (Mr. Hawk).