

# Program of Studies & Scheduling Handbook

## Course Offerings & Descriptions

**Requirements, Fees & Information: 2011 - 2012**



- Recommended Course Plans for all 4 years
- Program Options & Descriptions
- Requirements for Diploma, Diploma with Honors
- Athletic Eligibility Explanations, Schedule of Fees
- Course Listings and Descriptions

## Mission Statement

Defiance High School

Our mission is to identify and meet the needs of the whole child, strengthen school-community partnerships, and facilitate the continual learning process.

## Our Vision

Defiance High School personnel will expand the involvement of parents, businesses, and community members to improve our school, will work to increase proficiency test scores and graduation rates, and will provide students with additional opportunities for education.

## TABLE OF CONTENTS



Requirements for the Standard Diploma	3
Scheduling Information	3
Comparison of Diplomas w/Honors Criteria	4
DHS Eligibility Requirements	4
Eligibility Criteria for Award of Merit	5
Admission Requirements for Ohio's Colleges	6
NCAA Academic Eligibility Requirements	6
Program Options at DHS	7
Extra-Curricular Activities at DHS	8

### Course Descriptions by Department

Art	9-10	Marketing Education	17-18
Business	10-12	Mathematics	18-19
Communications	12	Music	19-21
Computer	13	Physical Ed. & Health	21
Engineering Technology	13	Science	22-23
English	13-16	Social Studies	23-24
Foreign Language	16-17	Work and Family Life	25

# Requirements for the Standard Diploma from Defiance High School

The Board of Education has established guidelines for the requirements that must be fulfilled before a standard diploma may be awarded. These requirements stipulate how credits may be divided among different areas of study. Additional requirements are established by the State of Ohio. Consult the table below.

<b>Subject</b>	<b>Graduating Classes 2011, 2012 and 2013</b>	<b>Graduating Classes 2014 and Beyond</b>
<b>English</b>	<b>4 credits</b>	<b>4 credits</b>
<b>Mathematics</b>	<b>3 credits</b>	<b>4 credits</b> , including 1 unit of Algebra II or equivalent
<b>Science</b>	<b>3 credits</b> , including 1 Life and 1 Physical	<b>3 credits</b> , including 1 Life, 1 Physical and 1 Advanced Science
<b>Social Studies</b>	<b>3 credits</b> , including ½ Government and 1 United States History	<b>3 credits</b> , including ½ Government and 1 United States History
<b>Business or Foreign Language or Fine Arts or Technology</b>	<b>1 credit</b>	<b>1 Fine Arts Credit</b>
<b>Health</b>	½ credit	½ credit
<b>Physical Education</b>	½ credit	½ credit
<b>Electives</b>	<b>5 ½ credits</b>	<b>4 ½ credits</b> – includes business, foreign language, fine arts, technology, Career technical, family & consumer sciences, agricultural education or English language arts, mathematics, science or social studies beyond the requirements in their subject area
<b>Economics/Finance</b>	½ credit	½ credit
<b>Computer</b>	Strongly Recommended	Strongly Recommended
<b>Speech</b>	Strongly Recommended	Strongly Recommended

**TOTAL CREDITS NEEDED TO GRADUATE..... 21**

**OHIO REQUIREMENTS:** All graduates must achieve passing scores on all 5 sections of the Ohio Graduation Test.

## **SCHEDULING INFORMATION**

Students attending Defiance High School **MUST** schedule a minimum of 6 periods per day.

At the start of each semester the Guidance Office will allow **one week to make all schedule changes**. Any changes after the initial 5 days will be issued a Withdraw Failure from the course.

## Comparison of Diplomas with Honors Criteria

*Students need to fulfill all but one criteria for any of the following Diplomas with honors*

Subject	High School Academic Diploma with Honors Graduating Classes 2011 and Beyond	Career-Technical Diploma with Honors For Graduating Classes 2011 and Beyond
<b>English</b>	4 units	4 units
<b>Mathematics</b>	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	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
<b>Science</b>	4 units, including Physics and Chemistry	4 units, including Physics and Chemistry
<b>Social Studies</b>	4 units	4 units
<b>Foreign Language</b>	3 units, including at least 2 units in each language studied	Not counted towards requirements
<b>Fine Arts</b>	1 unit	Not counted towards requirements
<b>Career-Technical</b>	Not counted towards requirements, and may not be used to meet requirements	Now counted in Electives
<b>Electives</b>	Not counted toward requirements	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
<b>Grade Point Average</b>	3.5 on a 4.0 scale	3.5 on a 4.0 scale
<b>ACT/SAT Score (excluding scores from the writing sections)*</b>	27 ACT / 1210 SAT	27 ACT / 1210 SAT
<b>Additional Assessment</b>	Not applicable	Achieve proficiency benchmark established for appropriate Ohio Career-Technical Competency Assessment or equivalent

## Defiance High School Eligibility Requirements

In keeping with the Board Policy that participation in athletics is a privilege, and not a right, the Student Athletic Handbook for DHS requires the following for participation in interscholastic sports:

During each quarterly grading period, the student athlete must earn a passing grade in at least 5 courses of at least 1/2 credit value, and meet at least one (1) of the following three (3) criteria:

1. Earn a grade point average of at least 1.5 on a four-point scale for the current quarter.
2. Earn a grade point average of at least 1.3 on a four-point scale for the previous quarter.
3. Hold a cumulative (overall) grade point average of at least 1.5 on a four-point scale.

The Student Athletic handbook prescribes other conditions (e.g. - disciplinary actions) under which an athlete may become ineligible for participation. Students and parents are urged to study the academic and behavioral requirements for DHS athletes carefully. For further information consult the athletic director or OHSAA website: [www.ohsaa.org](http://www.ohsaa.org). DHS website: <http://www.defiancecityschools.org/HighSchool/index.html>

## **ELIGIBILITY CRITERIA FOR AWARD OF MERIT**

The requirements listed below have been adopted for the Award of Merit. This certificate will be awarded by the State Board of Education to all those who meet the criteria specified in **A and C or B and C below**.

**A. College Prep Requirements** – complete the following minimum requirements:

1. English – 4 units (May include 1 unit of fundamentals of speech.)
2. Mathematics – 3 units (Must include 1 unit of algebra and 1 unit of geometry.)
3. Science – 3 units (Must include 2 units from among biology, chemistry and physics.)
4. Social Studies – 3 units (Must include 2 units of history and 1/2 unit of civics or government.)
5. Foreign Language – 3 units (Must include no less than 2 units of any language for which credit is sought i.e., 3 units of one language or 2 units each of two languages.)
6. Complete 2 units from one or more of the following, or 2 additional units from one or more of the areas listed A.1 through A.5 above.
  - a. Business
  - b. Computer Science
  - c. Visual or Performing Arts

**B. Career-Technical Curriculum Requirements**

1. Complete a career technical occupational preparation program
2. Complete the following curriculum requirements
  - a. English – 4 units
  - b. Mathematics – 3 units
  - c. Science – 3 units
  - d. Social Studies – 3 units

Applied academic credits earned via career-technical education shall apply to the criteria for the Award of Merit.

**NOTE:** Courses completed prior to ninth grade, taught by a teacher licensed to teach high school, and recognized as high school level work by the local school district board of education. Courses that are part of the Post Secondary Education Options Program also apply to the criteria for the Award of Merit.

3. Complete two units from one or more of the following, or two additional units from one or more of the areas listed in B.2 above.
  - a. Business
  - b. Computer Science
  - c. Foreign Language
  - d. Visual or Performing Arts

**C. Performance Criteria (applies to both curricula)**

1. Maintain above average attendance for grades nine through 12 (compared to a rolling four-year state average).  
For 2009, the four-year state average is 94.20 percent attendance.
2. Demonstrate outstanding achievement in the curriculum as evidenced by one of the following: earning the equivalent of an overall grade point average of 3.25 on a four point scale for grades nine through 12; earning the equivalent of an overall grade point average of 3.5 on a four point scale for grades 11 and 12; or ranking in the top 25 percent of the class, whichever is more inclusive.
3. Participate in co-curricular, extracurricular or community activities in accordance with procedures established by the district board of education.
4. Demonstrate outstanding citizenship/character traits in accordance with criteria established by the district board of education.

Source: Ohio Department of Education Rev. February 2009

# ADMISSION REQUIREMENTS FOR OHIO'S COLLEGES

## **FOUR YEAR STATE UNIVERSITIES**

The following academic preparation is recommended for college by the Ohio Board of Regents and required by some state universities such as Ohio State, Ohio University, Kent State and others. Private colleges may have different requirements. Check with your counselor.

### **Classes of 2011, 2012, 2013\***

- \* 4 years of English with emphasis on Writing
- \* 3-4 years of Math (Alg. I, Geometry, Alg. II), one being taken during the senior year
- \* 3 years of Social Studies
- \* 3 years of Science (most want 2-3 yrs. of a lab science)
- \* 2-3 years of the same foreign language
- \* 1 year of Fine Arts

ACT Test taken at least twice during junior year.

Students planning for careers in Engineering, Medicine and Architecture should take 4-5 years of Math (Alg. I, Geometry, Alg. II, PreCalculus, Calculus).

## **TWO YEAR TECHNICAL COLLEGES**

The following academic preparation is recommended for students who plan to attend 2-year technical colleges.

### **Classes of 2011, 2012, 2013\***

- \* 4 years of English
- \* 3 years of Math (should include 1 yr. of Algebra)
- \* 3 years of Science (Biology, Physiology or Chemistry may be required for students going into Health programs)
- \* 3 years of Social Studies

Take the ACT Test at least twice during junior year.

Special subjects such as Accounting, Drafting, Computer Programming, or Typing, may be desired depending on the program being pursued by the student.

Interested students and their parents can use the DHS Guidance Website to reach the Internet homepage of any college or technical school in Ohio. Each college website should have an admissions section explaining all the specific details of the admissions process for that school.

**\*Class of 2014 (must meet the Ohio Core curriculum) See page 3**

## **NCAA Academic Eligibility Requirements**

### **Division I**

#### **2008 and Later**

If you enroll in a Division I college on or after August 1, 2008, and you want to participate in athletics or receive an athletic scholarship during your first year, you must:

- Graduate from high school
- Complete these 16 core courses:
  - 4 years of English
  - 3 years of Math
  - 2 years of natural or physical science (including one year of lab science offered by your high school)
  - 1 extra year of English, Math or Natural or Physical Science
  - 2 years of Social Studies
  - 4 years of extra core courses (from any category above, or foreign language, nondoctoral religion or philosophy)
- Earn a minimum required grade-point average in your core courses

- Earn a combined SAT or ACT sum score that matches your core – course grade-point average and test score sliding scale. See your guidance counselor for more details or go to [www.ncaa.org](http://www.ncaa.org).

## **PROGRAM OPTIONS AT DHS**

### **Career Based Intervention**

Career Based Intervention (CBI) is a program for students who may be having difficulty academically or economically and who are behind in credits. CBI coursework is completed through on-line instruction. These students must show a strong work effort. Students must have a job and may earn elective credit for their job. Jobs are usually in the private sector and usually pay minimum wage. Students are responsible for finding and maintaining their job. Students will earn wages and credits at the same time. Students must schedule a minimum of 4 periods.

#### **Requirements:**

- ❑ Gain and maintain employment throughout the school year.
- ❑ Provide his/her own transportation.
- ❑ Maintain good attendance and discipline.
- ❑ Satisfactorily complete academic requirements.

Students must take CBI Related in addition to other classes needed to meet graduation requirements. Students may have the option of an adjusted day.

### **Post-Secondary Options**

The Post Secondary Options Program is open to 9th - 12th grade students -providing them with an opportunity to take classes at eligible post secondary institutions. Eligible students, determined by cumulative GPA requirements established by the college, may earn high school credit and college credit for the same courses. Students and parents will be notified by mail if the student is academically eligible and will be required to attend a meeting in February. If interested, students and parents must complete paperwork by March 30th in order to participate the following academic year.

Students must schedule a minimum of 4 periods between DHS and college.

**Marketing Education/DECA Program** see pages 16 and 17

### **Teaching Professionals Program**

The Teaching Professionals Program is a one/half day program of Seniors only. Academic classes are taken at the high school in the morning and the afternoon is spent in an educational setting at Defiance College with course instruction related to child development, learning theory, teaching techniques, and classroom management. Students are also placed in an area school, gaining early teaching experience in elementary, middle school, high school and special education classes under the supervision of the regular classroom teacher. Students will earn three (3) elective hours for the teaching experience and have the opportunity of earning college credit. Students must schedule a minimum of 4 periods at DHS.

#### **Program Requirements Include:**

1. 2.7 cumulative GPA
2. No credit deficiencies (college academic core recommended)
3. Two letters of recommendation (one from a teacher)
4. OGT – Ohio Graduation Test requirements met
5. Excellent attendance record
6. Entrance interview is required.
7. Students **MUST** have own reliable transportation.

# **Extra–Curricular Activity Opportunities at DHS**

## **- Clubs and Organizations -**

- Chemistry Club
- DARE
- Drama Club/Music Activity
- History Club
- Math Club
- Mentor Program
- National Honor Society
- Pep Club/Band
- Prom Committee
- Quiz Team
- Science Club
- Spanish Club
- Student Boosters
- Student Council
- Vocational Honor Society
- Volunteens

## **- Athletics -**

### **Fall Athletics**

- Boys & Girls Golf
- Boys & Girls JV & Varsity Soccer
- Cheerleading
- Cross Country
- Football
- Girls Tennis
- Volleyball

### **Winter Athletics**

- Boys & Girls JV & Varsity Basketball
- Boys Freshman Basketball
- Bowling
- Cheerleading
- Boys & Girls Swimming
- Wrestling
- Gymnastics

### **Spring Athletics**

- Baseball
- Softball
- Track & Field
- Boys Tennis

## »»» COURSE DESCRIPTIONS «««

### **ART**

All Art courses beyond Intro to Art **REQUIRE INTRO TO ART** as a prerequisite. Do NOT schedule any art classes if you have not yet **TAKEN** and **PASSED** Intro to Art!

#### **INTRODUCTION TO ART - 100**                      **Credit ½**                      **Prereq: None**

This foundation course is a prerequisite for ALL other art classes. It is based on the study of the Elements and Principles of Design, which impact every area of art study. Emphasis in this course is placed on drawing, including a variety of media and techniques. Students will also be exposed to art history through the study of various artists, styles, and art movements. **Fee: \$30.00**

#### **CERAMICS I - 106**                      **Credit ½**                      **Prereq: Intro to Art**

Introduces students to ceramics as an art form. The students will work with clay to create decorative & functional objects. They will learn clay hand building techniques and be introduced to the potter's wheel. **Fee: \$35.00**

#### **CERAMICS II - 708**                      **Credit ½**                      **Prereq: Intro to Art & C in Ceramics I**

An intermediate ceramics course for students wishing to develop their skills in a variety of areas: on the potter's wheel, and with decorative, sculptural, and functional hand built ceramics. Instructor approval is required for this course. **Fee: \$35.00**

#### **CONCENTRATED ADVANCED ART I - 102**                      **Credit ½**                      **Prereq: Intro to Art, All related art classes in area of concentration & Instructor Approval**

Students in this class choose a concentrated area of study: drawing, painting, ceramics, or photography. Area of concentration requires that students should have taken all available classes in that concentration prior to taking Advanced Art. The class is designed for students with a serious interest in art and/or those pursuing art in college. **Fee: \$30.00 - \$80.00** (Drawing - \$30; Ceramics - \$35; Painting - \$40; Photo - \$80)

#### **CONCENTRATED ADVANCED ART II - 109**                      **Credit ½**                      **Prereq: Intro to Art, All related art classes in area of concentration & B in Concentrated Art I**

Students in this class choose a concentrated area of study: drawing, painting, ceramics, or photography. Area of concentration requires that students should have taken all available classes in that concentration prior to taking Advanced Art. This class is designed for students with a serious interest in art and/or those pursuing art in college. **Fee: \$30.00 - \$80.00**

#### **DRAWING I - 104**                      **Credit ½**                      **Prereq: Intro to Art**

Introductory class that involves development of many basic drawing skills and techniques. Emphasis will be placed on observational drawing to increase students' ability to render realistic three-dimensional forms. Many different subjects will be explored. Media may include graphite, ebony pencil, conte, chalk & ink. **Fee: \$30.00**

#### **DRAWING II - 107**                      **Credit ½**                      **Prereq: Intro to Art & C in Drawing I**

Expands on techniques used in Drawing I but includes a broader range of media, including pencil, conte, dry pastels, oil pastels, colored pencils, etc. Students will explore more subject matter, and historical and cultural artists and art movements through drawing. Approval of instructor is required for this course. **Fee: \$30.00**

#### **GRAPHIC DESIGN - 105**                      **Credit ½**                      **Prereq: Intro to Art**

Explore this area of commercial art. Learn techniques for computer aided layout, illustration, lettering, and two-dimensional design. **Fee: \$20.00**

#### **PAINTING I - 103**                      **Credit ½**                      **Prereq: Intro to Art**

This is an introductory painting course in which students will learn basic techniques in tempera, acrylic, and watercolors. Students will also be introduced to different artists and painting styles. **Fee: \$40.00**

**PAINTING II - 126****Credit ½****Prereq: Intro to Art & C Painting I**

This course is designed for students wishing to advance their painting skills. Students will spend the first 9 weeks working with oils, and the last 9 weeks working with either watercolors or acrylics. Approval of instructor is required for this course. **Fee: \$50.00**

**PHOTOGRAPHY I - 101****Credit ½****Prereq: Intro to Art**

This course covers black and white film photography as well as digital photography. Students will learn all aspects of both types of photography including camera types and functions as well as the photographic processes. In addition, students will learn about composition (i.e. taking good pictures), the history of photography, and the preparation of photographs for display. The class will explore alternative photographic processes and creative techniques, time permitting. Students must have a digital camera (point-and-shoot is acceptable) and a 35mm film camera, preferably one with adjustable controls. Please contact Ms. Keck if you have concerns or questions about the cameras. This course is open to 11<sup>th</sup> and 12<sup>th</sup> grade students only. (Limited space - first come, first served.) **Fee: \$75.00**

**PHOTOGRAPHY II - 701****Credit ½****Prereq: Intro to Art & B in Photography I**

This course is for students wishing to advance their black and white film and digital photography skills. The class will cover the same areas as Photography I on an advanced level. Students must have an adjustable 35mm film camera for this course as well as a digital camera (point-and-shoot is acceptable). Please contact Ms. Keck if you have concerns or questions about the cameras. This course is open to 11<sup>th</sup> and 12<sup>th</sup> grade students only. (Limited space - first come, first served.) **Fee: \$80.00**

**3D ARTS – 425****Credit ½****Prereq: Intro to Art**

This course takes students beyond the two-dimensional plane and helps them to take the next step into three-dimensional design. They will explore many types of sculpture and 3-D art forms. **Fee: \$40.00**

**2D ARTS – 426****Credit ½****Prereq: Intro to Art**

This course is designed for students to explore a variety of two-dimensional art media and techniques. These may include drawing, printmaking, paper arts, scratch art, and batik. **Fee: \$30.00**

**BUSINESS****Introduction to Business - 110****Credit 1****Grades 9,10,11 & 12****(Will meet Econ/Finance graduation requirement)**

This course will serve as an introduction to Business subjects and deals with economics on a personal level. Special emphasis is placed on helping students to be wise consumers and efficient managers of personal, business, and financial affairs. Units covered will include car buying, cost of credit, interview for a job, income tax procedures, check writing, investments, insurance and exploration of career opportunities with emphasis on business.

**Accounting I - 112****Credit 1****Grades 10, 11, 12**

Interested in business, banking, finance, securities, or accounting as a career? Knowledge of generally accepted accounting principles for proprietorships, partnerships, and corporations is essential for basic understanding and success. Students will also be introduced to computerized accounting applications. Workbook required.

**Accounting II - 113****Credit 1****Prereq: Accounting I**

Specifically intended for the career-oriented student seeking to expand their knowledge base with emphasis on accounting processes and financial statement analysis. Corporate accounting procedures will be stressed while using computer software. Workbook required. \*Students maintaining an "A" average in both Accounting I and II will have the opportunity to be in an advanced accounting course at Northwest State Community College.



**Web Page Management I - 118**                      **Credit ½**                      **Prereq: B in Computer Appl. I**

This class builds on the knowledge of web-based software and Adobe Photoshop gained in Computer Applications I. Students will gain extensive experience in website development and maintenance and will actively participate daily in upgrading and updating the DHS website.

**Web Page Management II -119**                      **Credit ½**                      **Prereq: A in Web Page Management I**

Enrolled students will use their previous experience in webpage design and maintenance to develop unique authentic learning projects with the permission of and under the supervision of the instructor. Self-guided exploration of software functionalities and design principles for the Internet will be a major component of this course. Students will gain extensive experience in website development and maintenance and will actively participate in upgrading and updating the Defiance High School website. Students should be self-motivated and successful in Web Page Management I. Space will be limited to 15 students.

**Web Page Management III - 120**                      **Credit ½**                      **Prereq: Instructor Permission**

Enrolled students will use their previous experience in webpage design and maintenance to develop unique authentic learning projects with the permission of and under the supervision of the instructor. Self-guided exploration of software functionalities and design principles for the Internet will be a major component of this course. Students will gain extensive experience in website development and maintenance and will actively participate in upgrading and updating the Defiance High School website. Students should be self-motivated and successful in Web Page Management II. Space will be limited to 15 students.

**Web Page Management IV - 121**                      **Credit ½**                      **Prereq: Instructor Permission**

Enrolled students will use their previous experience in webpage design and maintenance to develop unique authentic learning projects with the permission of and under the supervision of the instructor. Self-guided exploration of software functionalities and design principles for the Internet will be a major component of this course. Students will gain extensive experience in website development and maintenance and will actively participate in upgrading and updating the Defiance High School website. Students should be self-motivated and successful in Web Page Management III. Space will be limited to 15 students.

**Yearbook Design & Production - 923**                      **Credit 1**                      **Grades 9,10,11 & 12**

**Prereq: B in English, Photography recommended, instructor's permission.**

This course offers students actual hands-on experience in designing and producing the high school yearbook, Panorama. Emphasis is placed on design concepts, copywriting, digital photography techniques, word processing, desktop publishing and the selling of advertisements to businesses.

## **COMMUNICATIONS**

**Video/TV I - 917**                      **Credit ½**                      **Prereq: Teacher Approval**

Students will operate their own television studio for the live morning announcements where they will practice both public speaking and technological skills. Students will also study various aspects of film and the film industry. By the end of the semester, each student will have become familiar with film editing software and will have created numerous video projects to be shown at a DHS film festival during exam week. Students are required to purchase two tapes to use with the school's digital cameras for approximately \$12.00.

**Video/TV II - 915**                      **Credit ½**                      **Prereq: C in 917, Teacher Approval**

Students will operate their own television studio for the live morning announcements where they will practice both public speaking and technological skills. Students will also study various aspects of film and the film industry. By the end of the semester, each student will have become familiar with film editing software and will have created numerous video projects to be shown at a DHS film festival during exam week. Students are required to purchase two tapes to use with the school's digital cameras for approximately \$12.00.

## **COMPUTER**

### **COMPUTER PROGRAMMING - 421**

**Credit ½**

**Prereq: B in Algebra**

Students will be given an introduction to Computer programming. Students will use this structured language to program the computer to solve everyday problems.

### **TECHNOLOGY OFFICE EXPERIENCE 321-326**

**Credit ½**

**Prereq: Permission from instructor**

Students will be expected to learn and apply procedures needed to run the Technology Office. These procedures include installing and upgrading software and hardware in high school computer labs and classrooms. Students will also assist in maintaining the network and maintaining accurate records of all updates and acquisitions.

## **ENGINEERING TECHNOLOGY - Dual Enrollment with Northwest State Community College**

CADD is a 2-year TECH PREP Program. Students who enroll in CADD I are **REQUIRED** to enroll in CADD II the second semester and CADD III their senior year. Failing to do so negates the college accreditation.

### **CADD I - 257**

**Credit 1 HS/4 Hours College Credit**

**Junior Prereq.**

**Juniors only with a minimum 2.5 grade point average. Recommendation of instructor. Minimum C grade in algebra. 90% attendance. Early Bird Class 7:30 – 8:50 One Semester.**

This is a course in the fundamentals of Computer-Aided Design, utilizing state-of-the-art microcomputer hardware and AutoCADD application commands. Gives the student the opportunity to become proficient, in a hands-on environment, in developing fundamental 2D drawings and utilizing an industrial quality CADD system. This course can be taken for college credit towards an Associate's Degree as a CADD technician.

### **CADD II - 258**

**Credit 1 HS/4 Hours College Credit**

**Junior Prereq.**

**Juniors only with a minimum 2.5 grade point average. Recommendation of instructor. Minimum C grade in algebra. 90% attendance. Early Bird Class 7:30 – 8:50 One Semester. Prereq: CADD I**

This course is a continuation of CADD I. This course is designed for exploring the advanced in-depth commands available in AutoCADD and to develop engineering & architectural drawings utilizing MicroCADD Systems. Having mastered the fundamentals of CADD I, the student will progress to the more advanced commands and design features of the software packages. The goal of this course, in combination with its prerequisites, is to attain proficiency in the operation of microcomputer based AutoCAD systems. Complex drawings will be produced, utilizing the capabilities of high speed plotting equipment for finished work and HP Laser Jet printers for draft quality.

### **CADD III - 255**

**Credit 1 HS / 9 Hours College Credit**

**Seniors only**

Students meet **one** period per day for **one year**. Prereq. 2.5 minimum grade in CADD II. CADD III is a course in 3-dimensional design. Students will be working in a hands-on environment utilizing SolidWorks 3D feature-based parametric solid modeling design tool software. The student's goal will be to become proficient in the operation of a state-of-art 3D CADD system in developing industrial-type drawings. Students will learn the software commands, the drafting standards, and the engineering terminology necessary in developing and plotting advanced 3D models, 2D detail drawings and 3D assembly drawings as used in today's modern industries. Students will have the opportunity to manipulate 3D solid objects in space and learn how to link their 3D models to develop detail drawings, assembly drawings, design tables and bill of materials. **A required Senior project is completed during this course.**

## **ENGLISH**

Students are required to take four years of comprehensive yearlong English courses. The courses within this requirement are numbered in the order for which you should take them.

**ENGLISH 9 - 900** **Credit 1** **Required for Grade 9 – STEP 1**

This yearlong, required course is an introduction to literature, and students will study short stories; poetry; nonfiction; drama; and the novel, incorporating literary terms; poetic devices; and vocabulary development, as well as grammar review and reinforcement. Homer's *Odyssey* and Shakespeare's *Romeo and Juliet* will be studied, along with a critical thinking unit. Testing-related topics covered will include formula writing, the elements of an essay, reading strategies, OGT vocabulary, and the eight parts of speech. A short research paper in MLA style is required. **Total cost for Course/Books \$23.50.** Book/supplemental fees are subject to change.

**HONORS ENGLISH 9 - 903** **Credit 1** **Prereq: Teacher recommendation –STEP 1**

Accelerated English 9 curriculum with additional readings, novels, and an additional Shakespeare play. This course will incorporate a more extensive literary analysis approach. Summer reading is required. Testing-related topics covered will include formula writing, the elements of an essay, reading strategies, OGT vocabulary, and the eight parts of speech. A short research paper in MLA style is required. **Total cost for Course/Books \$25.00.** Book/supplemental fees are subject to change.

**ENGLISH 10 - 901** **Credit 1** **Prereq: English 9 – STEP 2**

This yearlong, required course is the second step in the English curriculum, providing an extension of literary terms and writing skills already introduced in English 9. Students will study short stories, poetry, nonfiction, drama, novels, literary terms, MLA writing style, various essays, a formal research paper, vocabulary development, and grammar reinforcement. **Total cost for Course/Books \$33.00.** Book/supplemental fees are subject to change.

**HONORS ENGLISH 10 - 904** **Credit 1** **Prereq: B in Hon. English 9 – STEP 2**

This course is an accelerated version of English 10 and will incorporate additional novels, plays, and literary analysis papers. Students will be required to complete a significant amount of reading and writing to prepare for the Advanced Placement Exam, which will be taken after the completion of AP English at the end of senior year. Summer reading is required and reliable Internet access is highly recommended. **Total cost for Course/Books \$33.00.** Book/supplemental fees are subject to change.

**ENGLISH 11 - 902** **Credit 1** **Prereq: English 10 –STEP 3**

This yearlong required course is the third step in the English curriculum and examines the social, political, religious, and philosophical influences, which have contributed to the development of American literature. The study includes major literary periods-Puritan through modern. At least one American novel will be studied, as well as vocabulary development. Students will maintain an American Literature notebook as a required assignment, and a short research paper in MLA style will be required. **Total cost for Course/Books is \$37.50.** Book/supplemental fees are subject to change.

**HONORS ENGLISH 11 - 937** **Credit 1** **Prereq: B in Honors English 10 – STEP 3**

Accelerated English 11 curriculum, which engages students in careful reading and critical analysis of American literature. Students will be expected to do a significant amount of reading and writing to prepare for the Advanced Placement Exam, which will be taken after the completion of Senior AP English. Summer reading is required. **Total cost for Course/Books \$13.50.** Book/supplemental fees are subject to change.

**ENGLISH 12 - 905** **Credit 1** **Prereq: C or lower in English 9,10,11- STEP 4**

The course will provide a study of significant authors and their works in drama, fictional novels, and poetry for the non-college bound student. A short research paper based on an author will be required, as well as shorter papers that analyze the various writings. **Total cost for Course/Books \$7.00.** Book/supplemental fees are subject to change.

**COLLEGE PREP ENGLISH 12 (CPE) - 909** **Credit 1** **Prereq: Eng. 9,10,11-STEP 4**

A senior class designed to prepare students for college. The class surveys 1500 years of British literature and British authors. A Shakespeare play and a modern British novel will supplement the text. Students will maintain a British Literature notebook as a required assignment. Students will make a transition from writing

short papers to a longer research paper in the MLA style as a required assignment, using the Write in Style manual purchased during freshman year. All compositions are required assignments. **Total cost for Course/Books \$16.50.** Book/supplemental fees are subject to change.

**ADVANCED PLACEMENT (AP) LITERATURE & COMPOSITION 12 – 933** **Credit 1**

**Prereq: Honors English 9,10 or 11 or instructor approval – STEP 4**

This course is designed to be an introductory college level course that engages students in careful reading and critical analysis of imaginative literature. Literary terms expected to be on the Advanced Placement Exam will be covered, as well as critical analysis of each novel or play studied. The students will maintain both a reading journal and a writing journal for short, in class essays. Several analytical papers and oral presentations will be required. Reading assignments will be substantial and varied but not overwhelming. The course is followed by the AP Exam scheduled in May; students are encouraged to take the exam. Summer reading is required.

**Total cost for Course/Books \$55.00.** Book/supplemental fees are subject to change.

**CREATIVE WRITING - 920** **Credit ½** **Elective 9, 10, 11, 12**

In this semester long course, the main focus will be on creative writing for publication purposes. Students will write on a daily basis on various prompts. Writing assignments will cover persuasion, narration, writing to inform, letters, poetry, and short stories. Students will be required to submit to and publish the Alive And Kicking literary magazine, as well as create a children's story as a final project.

**SPEECH - 916** **Credit ½** **Elective 11, 12**

This class will explore the elements and principles of effective interpersonal and group communication in the modern world. The class will highlight different approaches to public speaking and the communication process. Oral presentations, both individual and small group will be emphasized.

**BIBLE AS LITERATURE – 908** **Credit ½** **Elective 9,10,11 & 12**

This course will focus on the history, traditions, and writings of both the Old and New Testaments. Emphasis will be placed on studying the Bible from a literary and historical standpoint. A research project is required.

**MYTHOLOGY – 911** **Credit ½** **Elective 9, 10, 11 & 12**

This is a study of mythological development and conflict of the cultural development in western civilization. Divided into a three-round literary "death match" bout, the first round features Osiris v Marduk; Homer and Virgil v Yahweh; Thor v Bridget; Osiris v Yahweh; Thor v Zeus. **Total cost for Course/Books \$5.50.** Book/supplemental fees are subject to change.

**SHAKESPEARE STUDIES - 913** **Credit ½** **Elective 10, 11 & 12**

Focuses entirely on poetry and plays of William Shakespeare. Seven plays will be studied, along with Shakespeare's Sonnets. Plays will be analyzed for style, theme and metaphor, dramatic form, language and genre. This course will aim to develop an understanding of Shakespeare's plays as they were performed in his time, and as they are mediated today, and also to explore the relationship between literature, theory and performance.

**ADVANCED SPEECH/DEBATE - 914** **Credit ½** **Prereq: Speech**

This class will be an extension of the communication process and public speaking skills acquired in Speech class. Additional opportunities will be given for various types of speeches for various occasions. Students will be introduced to and given the opportunity to practice the components of Argumentation and Rational Debating.

**News Reporting I - 925 (Banner Year 1)** **Credit 1** **Grades 9, 10, 11, 12**

**Prereq: "B" in English, Typing I Preferred, instructor's permission.**

This course is designed to give a student experience in writing and reporting the news of the school and community for the high school newspaper, *The Banner*. Students will be required to use their word processing

skills to develop and construct professional news articles. In addition, students will gain knowledge in the publishing cycle of graphic design, writing, editing, and meeting deadlines. Students will use the software program Adobe InDesign to efficiently layout and produce the school newspaper.

**News Reporting II - 926 (Banner Year 2) Credit 1 Grades 10, 11, 12**

**Prereq: "B" in English; Typing I preferred. Must have instructor's permission.**

This course is designed to give a student experience in writing and reporting the news of the school and community for the high school newspaper, *The Banner*. Students will be required to use their word processing skills to develop and construct professional news articles. In addition, students will gain knowledge in the publishing cycle of graphic design, writing, editing, and meeting deadlines. Students will use the software program Adobe InDesign to efficiently layout and produce the school newspaper.

**News Production I - 928 (Banner Year 3) Credit 1 Grades 11, 12**

**Prereq: "B" in English; Typing I preferred. Must have instructor's permission.**

This course is designed to give a student experience in writing and reporting the news of the school and community for the high school newspaper, *The Banner*. Students will be required to use their word processing skills to develop and construct professional news articles. In addition, students will gain knowledge in the publishing cycle of graphic design, writing, editing, and meeting deadlines. Students will use the software program Adobe InDesign to efficiently layout and produce the school newspaper.

**News Production II - 929 (Banner Year 4) Credit 1 Grades 12**

**Prereq: "B" in English; typing I preferred. Must have instructor's permission.**

This course is designed to give a student experience in writing and reporting the news of the school and community for the high school newspaper, *The Banner*. Students will be required to use their word processing skills to develop and construct professional news articles. In addition, students will gain knowledge in the publishing cycle of graphic design, writing, editing, and meeting deadlines. Students will use the software program Adobe InDesign to efficiently layout and produce the school newspaper.

## **FOREIGN LANGUAGES**

**FRENCH I -201 Credit 1 Prereq: C in English**

French I is a visual-audio-lingual program that offers maximum opportunities for successful learning of French. The C'est a toi program uses a cultural approach to help the student easily learn the four basic language skills: listening, speaking, reading and writing. Many materials are used to make learning French easy and enjoyable: videos, CD's and computer programs. **Total Cost for Course/Books \$18.00.** Book/Supplemental fees are subject to change.

**FRENCH II - 202 Credit 1 Prereq: C in French I**

C'est a toi – **Level 1 continues and completes** the visual-audio-lingual program of French I dealing with topics of special interest to teenagers. Much time is spent learning about the people, culture, and civilization of France using films, videos, CD's and computer programs.

**FRENCH III - 203 Credit 1 Prereq: C in French II**

Immerse yourself in French society & culture while improving your ability to speak and understand the language with the multi-media C'est a toi – Level 2 program. Video, audio, and printed materials combine to provide an exciting "planned immersion" in French language and culture. French I and II skills are reviewed and enriched. **Total Cost for Course/Books \$18.00.** Book/Supplemental fees are subject to change.

**FRENCH IV – 205 Credit 1 Prereq: C in French III**

French IV **continues and completes the C'est a toi -Level 2** program combined with the TRESORS DU TEMPS program that is used as a supplement. French IV will be offered only if there is adequate enrollment.

**SPANISH I - 206****Credit 1****Prereq: C in English**

This is an introductory course designed to teach the basic concepts of Hispanic language and culture. The emphasis is on listening, reading, and writing, but some speaking will be required. **Total Cost for Course/Books \$20.00.** Book/Supplemental fees are subject to change.

**SPANISH II - 207****Credit 1****Prereq: C in Spanish I**

This course builds on the foundation of Spanish I. Culture and vocabulary are continued while grammar is explored in more depth. The emphasis is on listening, reading & writing with more speaking required. **Total Cost for Course/Books \$14.00.** Book/Supplemental fees are subject to change.

**SPANISH III - 208****Credit 1****Prereq: C in Spanish II**

This course builds on Spanish II information. More vocabulary and culture are studied. The remaining grammar is covered and practiced through readings and compositions. Presentations will be given in Spanish. **Total Cost for Course/Books \$14.00.** Book/Supplemental fees are subject to change.

**SPANISH IV - 209****Credit 1****Prereq: C in Spanish III**

This course focuses on the advanced development of Spanish language skills with special emphasis on reading and writing. It will be offered if there is adequate enrollment and staff. **Total Cost for Course/Books \$26.95.** Book/Supplemental fees are subject to change.

**SPANISH V - 219****Credit 1****Prereq: C in Spanish IV**

Spanish V will continue writing, speaking and reading Spanish. The students will study advanced grammar, vocabulary and will demonstrate their command of the language with skits and written and oral compositions. The students will study the diversity of the Hispanic world and how they react with our own culture.

**ADVANCED PLACEMENT (AP) SPANISH – 218****Credit 1****Prereq: B in Spanish III or IV**

This course is a prerequisite to students who wish to take the Advanced Placement test at either the end of this course, or the following year. In order to receive credit for this course, students must take the AP exam. It is strategically designed to complete grammar instruction coupled with review & complete the numerous tenses and associated skills necessary to proceed at an advanced level. Only Spanish is used at this level. Writing skills will be developed & vocabulary acquisition will continue. Culture elements are presented in the readings as well as predetermined vocabulary segments. A course syllabus has been designed and approved by the College Board for the final year, contingent on the taking of the exam. This can & may be a sequential class as to be determined by skill levels presented.

**MARKETING EDUCATION**

*The Marketing Education Program/DECA is a two-year curriculum with a concentration in Business, Economics, Management, Entrepreneurship, and Marketing. With acceptance from the instructor, juniors enroll in Introduction to Marketing. The senior course, Marketing Management, is a continuation of the curriculum with a managerial focus; seniors will also enroll in a Cooperative Experience.*

**Senior students must schedule a minimum of 4 periods at DHS. Students who complete courses 130 and 131 will fulfill the Economics/Finance requirement.**

**INTRODUCTION TO MARKETING – 130****Credit 1****Prereq: Grade 11 only / Teacher Approval**

The DHS Marketing Education curriculum is based on the National Standards for Marketing Management, Entrepreneurship, and Business Administration. The Standards are composed of both the Business Administration Core Standards and Marketing Core Standards. Although students will be presented with a comprehensive study of business, entrepreneurship, and economics, the curriculum places heavy emphasis on the Marketing Mix, or five Ps of marketing. Specifically, the junior curriculum emphasizes the “basics” of business, entrepreneurship, economics, and students begin their understanding of the Marketing Mix. Students are required to join DECA, An Association of Marketing Students. DECA provides skills and experience relating to social intelligence, leadership development, career understanding, and civic consciousness. **Workbook Fee: \$16**

**MARKETING MANAGEMENT - 131**                      **Credit 1**                      **Prereq: Introduction to Marketing**

**Must be currently enrolled in Course 132 or 133, and obtain Teacher Recommendation**

The DHS Marketing Education curriculum is based on the National Standards for Marketing Management, Entrepreneurship & Business Administration. The Standards are composed of both Business Administration Core Standards & Marketing Core Standards. The senior curriculum continues the comprehensive study of business, entrepreneurship, economics, and marketing through a managerial approach. Critical thinking skills will be encouraged through the study of higher-level marketing concepts and projects. Senior students are required to complete a marketing cooperative experience. The marketing cooperative experience allows students to see the marketing curriculum being used in the “real world.” Senior students have a choice between the Marketing Cooperative Training Experience and Marketing Cooperative Career Shadowing Experience. Students are required to join DECA, An Association of Marketing Students. DECA provides skills and experience relating to social intelligence, leadership development, career understanding and civic consciousness.

**Marketing Cooperative Training Experience - 132**    **Credit 2**    **Prereq: Enrolled in Marketing Mgmt**

The Marketing Cooperative Training Experience is a joint effort between Defiance Senior High School and an approved local business. A senior marketing student will maintain part-time employment with a business in an approved marketing-related position. The student is required to average **12 hours** per week for 36 weeks to reach the minimum 450 hours for course completion. A student may work the required hours in the evenings, on the weekends, or during the school day after attending all required classes. The instructor and the student’s supervisor will coordinate tailored learning experiences based on the student’s career objectives. Current part-time employment may serve as the cooperative business if approved by the instructor. If a student needs part-time employment, the instructor will aid in the employment search.

**Marketing Cooperative Career Shadowing Experience - 133**                      **Credit ½**                      **Prereq:**

**Must be currently enrolled in Marketing Management**

The Marketing Cooperative Career Shadowing Experience is a joint effort between Defiance High School and local businesses. The career shadow experience allows a senior marketing student to visit one area business per quarter and shadow individuals working in positions relating to his/her career objectives. Shadows will be coordinated with reliable and well-qualified individuals at reputable businesses. Each shadow will be completed during one school day. Students will not be paid for the experience and will be required to complete a written report and oral presentation. The instructor will coordinate all shadow experiences.

## **MATHEMATICS**

**PRE-ALGEBRA – 302**                      **Credit 1**                      **Teacher Recommendation**

**THIS COURSE HAS LIMITED CAPACITY AND IS FOR REMEDIATION PURPOSES ONLY**

An integrated pre-algebra course designed to match the standards and indicators for Ohio as well as prepare the students for the Ohio Graduation Test. Topics of study will include scientific notation, integers, rational and irrational numbers, inverse relationships, estimation, formulas for area & volume, and computation for surface area of common solid forms. *Please note that very few students will be taking this course at DHS. The only way to get assigned to this class is teacher recommendation.*

**ALGEBRA I – 303**                      **Credit 1**                      **Prereq: Pre-Algebra or C or better in 8th grade Pre-Algebra**

First year integrated algebra course designed to match the standards & indicators for Ohio as well as prepare the students for the Ohio Graduation Test. Students will compare & determine equivalent forms for rational and irrational numbers, find square and cube roots, convert rates within the same measurement system (metric), use right angle trigonometry, define sine, cosine, and tangent as basic ratios & thoroughly investigate linear and quadratic equations. *Please note that this course will likely be the course taken by freshmen (some, however may start with Geometry.)*

**GEOMETRY - 305****Credit 1****Prereq: Algebra I**

A first year integrated geometry course designed to match the standards and indicators for Ohio as well as prepare the students for the Ohio Graduation Test. Topics of study will include formal definition of geometric figures, as well as theorems involving lines, angles, triangles, and quadrilaterals, symbolic representation of irrational numbers, factorial notation, absolute vs. relative error, and other polygons and proofs.

**HONORS GEOMETRY - 306****Credit 1****Prereq: B in Algebra I**

A first-year integrated geometry course designed to match the standards and indicators for Ohio as well as prepare the students for the Ohio Graduation Test. Students should expect an accelerated pace and a more in-depth analysis and application of topics which will include formal definition of geometric figures, as well as theorems involving lines, angles, triangles, and quadrilaterals, symbolic representation of irrational numbers, factorial notation, absolute vs. relative error, and other polygons and proofs.

**ALGEBRA II - 307****Credit 1****Prereq: Geometry and Algebra I**

A second year algebra course designed to match the standards and indicators for Ohio. Students will explore first degree equations and inequalities, as well as matrices, higher order polynomials, advanced functions and relations, a thorough study of Trigonometry, as well as an introduction to probability and statistics.

**HONORS ALGEBRA II - 308****Credit 1****Prereq: B in Honors Geometry or A in Geometry**

A second-year algebra course designed to match the standards and indicators for Ohio. Students should expect an accelerated pace and a more in-depth analysis and application of concepts such as first degree equations and inequalities, as well as matrices, higher order polynomials, advanced functions and relations, a thorough study of Trigonometry, as well as an introduction to probability and statistics.

**PRE-CALCULUS – 309****Credit 1****Prereq: 303, 305, & 307**

Pre-calculus course designed to match the standards & indicators for Ohio. Topics include relations, functions & graphs of functions of varying degrees, a thorough study of Trigonometry, advanced functions & graphing, including polar coordinates, exponential and logarithmic functions & an introduction to basic topics of Calculus.

**HONORS PRE-CALCULUS – 310****Credit 1****Prereq: B in Honors Algebra II**

A pre-calculus course designed to match the standards and indicators for Ohio. Students should expect an accelerated pace and a more in-depth analysis and application of topics including relations, functions and graphs of functions of varying degrees, a thorough study of Trigonometry, advanced functions and graphing, including polar coordinates and exponential and logarithmic functions, and an introduction to basic topics of Calculus.

**CALCULUS - 315****Credit 1****Prereq: 309 or 310**

A first year calculus course designed to match the standards and indicators for Ohio. Students in this course will cover approximately 2/3 of the topics required by the AP Calculus curriculum.

**AP CALCULUS - 317****Credit 1****Prereq: B in 309 or 310**

An accelerated calculus course designed to match the standards and indicators for Ohio and prepare students for the Advance Placement Calculus test. Students enrolled are **required** to take the AP test in May and thus may earn college credit if mastery is demonstrated.

**MUSIC****INSTRUMENTAL MUSIC**

The Instrumental Music Department offers **four** performing ensembles that receive credit and have a course of study:

**MARCHING BAND****CONCERT BAND****SYMPHONIC BAND****JAZZ BAND**





## **SCIENCE**

*The following courses will be counted as lab sciences. Due to the standards of the Ohio Graduation Test, incoming 9th graders will be required to take ESP Science their 9<sup>th</sup> grade year & Biology their 10<sup>th</sup> grade year.*

### **EARTH/SPACE/PHYSICAL SCIENCE - 501** **Credit 1** **Grades 9 – 12**

ESP Science studies atoms and the periodic table, properties of matter and energy, forces and motion, the earth and its structure and astronomy. This course is designed to prepare students for the state required test.

### **HONORS EARTH/SPACE/PHYSICAL SCIENCE - 511** **Credit 1** **Teacher Recommendation**

Honors ESP Science is recommended for college-bound students. Freshmen must have an A or high B and teacher recommendation in 8th grade Science. Honors ESP Science studies atoms and the periodic table, properties of matter, energy, forces and motion, the earth and its structure and astronomy. This course emphasizes problem solving and critical thinking skills. Several oral/research papers will be expected and some material will be examined in greater detail. This course will prepare students for the state required test.

### **BIOLOGY I - 517** **Credit 1** **Grades 10-12 Prereq: ESP Science**

The foundation of Biology will be covered in this yearlong class. Topics covered will include: Characteristics of Life, Scientific Method, Ecology, Biochemistry, Cellular structure and functions, Cellular processes, Heredity, Genetics, DNA, and Evolution. This class is designed to provide a good foundation on topics in Biology while preparing students for state required test. **Lab Fee: \$10.00** Book/Supplemental fees are subject to change.

### **HONORS BIOLOGY I - 504** **Credit 1** **Grades 10 – 12**

**Prereq: A or B average in Honors ESP Science or ESP Science.**

Honors Biology incorporates new perspectives & understandings across major sub disciplines of biology, such as **Scientific Method, Biochemistry, Ecology, Cell Structure and Function, Photosynthesis, Cellular Respiration, Mitosis and Meiosis, Genetics, Protein Synthesis and Evolution.** The focus is Molecular Biology, an area of rapid growth that has shed light on many biological processes. This course will challenge students as the emphasis is on critical thinking and problem solving skills. This class demonstrates the role of biology in the 20th century, and presents its usefulness to students who will live most of their years in the 21st century. It is designed to provide students with a sophisticated knowledge of biology and to sharpen their ability to analyze information. Students should acquire the skills needed to advance in science and analyze important biological issues throughout their lives. This class will prepare students for the state required test. **Total Cost for Course/Books \$22.00.** Book/Supplemental fees are subject to change.

### **BIOLOGY II - 518** **Credit 1** **Prereq. Biology I**

This yearlong course is for students who really enjoyed Biology I and want to learn about other biological topics beyond the fundamentals covered in Biology I. Topics covered will include: viruses, bacteria, protists, fungi, plant structure and function, study of invertebrates (sponges, cnidarians, flatworms, roundworms, mollusks, arthropods, etc.), study of vertebrates (fish, amphibians, reptiles, birds, mammals) and animal behavior. Includes simple dissections of **earthworms and frogs.** **Total Cost for Course/Books \$22.00.** Book/Supplemental fees are subject to change.

### **CHEMISTRY I - 510** **Credit 1** **Grades 11 & 12 Prereq: Alg. I/H.Biology/Biology**

This is an introductory Chemistry course. Topics studied include: measurement and calculation, atomic structure, periodic laws, chemical bonding, formula/equation writing, stoichiometry, the gas laws and basic organic chemistry. **Lab Fee: \$15.00**

### **CHEMISTRY II – 511** **Credit 1** **Prereq: Chemistry I**

This yearlong course is for students who really enjoyed Chemistry I and want to learn about other chemical topics beyond the fundamentals covered in Chemistry I. It places great emphasis on mathematical applications. Topics studied include: Solubility, types of reactions, acid/base properties, thermo chemistry, kinetics, electrochemistry and nuclear chemistry. **Lab Fee: \$15.00**

**HONORS CHEMISTRY II – 512**                      **Credit 1**                      **Prereq: Chemistry I & Teacher Recommendation**

This course is a fast paced, in-depth study of college level chemistry. Students who are interested in pursuing a career in science should consider taking this course. This class requires students to commit a great amount of time studying outside of class. Encouraged to take AP exam. **Lab Fee: \$15.00**

**ENVIRONMENTAL SCIENCE - 502**                      **Credit 1**                      **Grades 11 & 12**

Environmental Science involves the study of humans and their interactions with the environment. Being an integrated science, it draws from many different fields of science, with particular emphasis on biology and earth science. After basic principles of ecology have been established, the impact of human activities on the environment, both planned and unplanned, will be investigated.

**HUMAN ANATOMY AND PHYSIOLOGY – 508**                      **Credit 1**                      **Grades 11 - 12**

**Prereq: Biology I or Honors Biology I**

Human Anatomy and Physiology will familiarize students, through lecture and laboratory experiences, with the basic structures and functions of the body, along with diseases that affect the body. This class will present material on the elegance and efficiency of the human body and also show what happens when things go wrong. In this time of rapid scientific advance, our understanding of the human body is increasing at an explosive rate. Recent advances in medicine, biotechnology, biochemistry, immunology, etc. are over-whelming and play a major role in uncovering new information about human structure, function and disease. This course will help prepare those who plan on pursuing further study in the fields of medicine, dentistry, nursing, physical therapy, and other health related fields. **Dissection in this class is MANDATORY!**

**Total Cost for Course/Books \$40.00.** Book/Supplemental fees are subject to change.

**PHYSICS I - 514**                      **Credit 1**                      **Prereq: Algebra I & Grade 11**

Physics I provides an overview of the physical laws that are the basis of today's technology. Topics of study include: Measurement, Motion in One Dimension, Two Dimensional Motion and Vectors, Forces and Laws of Motion, Work and Energy, Momentum and Collisions Circular Motion and Gravitation, Fluid Mechanics, Heat and Thermodynamics, Vibrations and Waves. Emphasis will be placed on description of physical phenomena utilizing the language of Physics, Mathematics. Successful completion of Algebra II is recommended but not required. Students will be encouraged to associate classroom topics with everyday experiences. **Lab Fee \$10.00**

**PHYSICS II - 515**                      **Credit 1**                      **Prereq: Physics I & Grade 12**

Physics II builds on the concepts studied in Physics I. Topics of study include Electronics, Forces and Fields, Magnetism, Electromagnetic Induction, Atomic and Sub-Atomic Physics. The accelerated pace for this course is designed to prepare students for Advanced Placement testing. **This course will be offered if there are enough Juniors who have completed Physics I.** **Lab Fee: \$10.00**

**SOCIAL STUDIES**

**WORLD HISTORY - 602**                      **Credit 1**

World history will examine world history from the great ancient empires to present day events. The first semester will cover from Ancient empires to the Renaissance while second semester will cover the rise of modern nation to modern events.

**HONORS WORLD HISTORY - 626**                      **Credit 1**                      **Prereq: Instructor approval**

This course is an accelerated version of the World History course described above, with a significant amount of additional reading and writing. Recommended for the able history student and the college bound.

**U.S. HISTORY - 612****Credit 1**

The course will explore the evolution of America from the age of exploration to modern day American Events. The first semester of the course will cover to 1870 while the second semester will examine the United States from 1870 to present.

**HONORS U.S. HISTORY - 625****Credit 1****Prereq: Instructor Approval**

This course is designed to be an introductory college level course, which details some of the significant historical events in the United States. Students will be expected to do a significant amount of reading & writing.

**AP U.S. HISTORY – 627****Credit 1****Prereq: Instructor Approval**

This course is designed to be an introductory college level course, which details some of the significant historical events in the United States. The syllabus of the AP program will be the model for this course. Students will be expected to do a significant amount of reading and writing. Students **must** take the Advanced Placement Test, which will be administered in the month of May.

**GOVERNMENT - 621****Credit 1/2****Prereq: U.S. History**

This course includes a background and history of the origin of our federal-type government, and examination of the branches, including the legislative process, etc., the course helps a student come to an understanding of the atmosphere in which governmental decisions are made and the mechanism through which these decisions are implemented. Political and social current events are an important part of this course.

**AP GOVERNMENT – 623****Credit 1****Prereq: U.S. History & Instructor Approval**

Students will read extensively from original writings of the founding fathers and also from people who were directly involved in many of the issues that have shaped our government since the Constitution. Students should possess a firm grasp of our government's fundamental principles (from Government) and will – in this course – be expected to apply, analyze, synthesize and evaluate the many factors, personalities, and events that have created our unique system of government. The course syllabus will substantially follow the AP curriculum and therefore **must** take the Advanced Placement Test.

**CURRENT HISTORY - 616****Credit ½****Prereq: U.S. History, Grades 11, 12**

Magazine and newspapers may be used to supplement the 20<sup>th</sup> Century Issues textbook. Must purchase as semester subscription. **Fee: \$12.00.**

**PSYCHOLOGY - 618****Credit ½****Prereq: Junior Standing**

This is an introductory course in psychology, the science of the mind. Students will learn why people act and think and feel as they do. Major units will explore memory, thought processes, the development of personality and sensory psychology.

**PREPARING FOR CITIZENSHIP THROUGH SERVICE LEARNING – 619 Credit ½ Grade 12**

The 12<sup>th</sup> grade year serves as a capstone in which students apply the knowledge and skills that they have learned during previous grades. Preparing for Citizenship Through Service Learning allows students to choose topics to demonstrate skills necessary for active, effective citizenship. Students use knowledge of the rights and responsibilities of citizenship in order to examine and evaluate civic ideals and to participate in community life and the American democratic system. Students collect, organize, evaluate and synthesize information from multiple sources to draw logical conclusions. Students communicate this information using appropriate social studies terminology in oral, written or multimedia form and apply what they have learned to societal issues in simulated or real-world settings.

## **WORK AND FAMILY LIFE**

*NOTE: ALL COURSES are open to both males and females; please read prerequisites carefully. Service learning projects are included in the Work and Family Life curriculum.*

### **PARENTING - 228** **Credit ½** **Prereq: Grades 10-12**

This is an excellent class for helping students become good parents. Topics discussed are parenting readiness, parenting roles, prenatal health and development, labor and birth, postnatal needs of both parent and child, and developmental needs of children as they grow. **Class Fee \$10.00**

### **FAMILY LIVING - 223** **Credit ½** **Prereq: Grades 11-12**

A very practical class for males and females. The class deals with preparation for future life, including units on different lifestyles (i.e. marriage, single, divorce, etc.), family relationships, mate selection, planning a wedding, dealing with family stresses, conflict and crises (your first home, budgeting, settling conflicts), managing work and family roles and responsibilities and responding to social forces that influence families.

### **FITNESS AND NUTRITION - 227** **Credit ½** **Prereq: Grades 10-12**

Students will study the effects of activities and food on health and lifestyle. Information about physical and nutritional preparation will be given, enabling a student to achieve his/her best physical potential. Each student will take personal fitness and nutritional assessment, participate in fitness activities, food projects, and be given the techniques necessary to obtain and maintain a healthy lifestyle. **Lab Fee: \$20.00**

### **FOOD CHOICES - 224** **Credit ½** **Prereq: Grades 10-12**

A combination of academic and lab work related to food choices, good health, food preparation, proper equipment use, safety and sanitation, and planning well-balanced meals. **Class Fee \$25.00**

### **ADVANCED FOOD CHOICES -229** **Credit ½** **Prereq: Instructor Approval**

This class is for the student who has a serious interest in food services, e.g.- those wanting to pursue a career as a chef, restaurant/hotel manager, or run a fast food or small business establishment. Areas covered will be advanced food techniques, foreign foods, specialty foods such as appetizer, soups, and salads, cake decorating and candy molding, catering, food presentation, menu planning, food costs, and careers in the food industry. **Class Fee \$35.00**

### **DESIGN AND FASHION – 225** **Credit ½** **Prereq: 10, 11, 12**

In this class students will learn to spruce up their wardrobe and closet. Interior decorating and clothing fashion are the topics. Projects will be directed by the principles and elements of design, the trends in fashion are the fun of accessories. Students may create a floor plan, make an accessory piece and/or sew a simple garment and try their hands at new design techniques. **Class Fee \$20.00 plus cost of special materials as needed.**

### **LIFE SKILLS - 220** **Credit ½** **Grades 9-10 or 11 & 12 By Instructor Approval**

A practical combination of lab and classroom work, teaching basic useful life skills. Topics include: foods, clothing, consumer awareness and personal development. **Class Fee \$35.00**

### **INDEPENDENT LIVING– 226** **Credit ½** **Grades 11-12**

This course is designed to give juniors and seniors preparation for living on their own. Topics include self-awareness, career assessment and preparation, as well as budgeting and financial management skills; which involves basic food preparation and shopping skills, projects and activities are a large part of his class. **Class Fee \$15.00**