



# **CURRICULUM GUIDE**

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# **2011 | 2012**

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The courses listed in this booklet are offered for 2011-2012. The classes actually taught during the 2011-2012 school year will be determined based on the enrollment in the courses and the professional staff available.

## **CONCERNING COURSE SELECTION**

At Carmel Catholic High School we make every effort to schedule students into their requested courses. However, there are times when courses are cancelled due to low subscription, changes in state college requirements, and curriculum revisions. Carmel reserves the right to make changes in the curriculum and in scheduling classes. Additionally, if a scheduling conflict occurs between two courses, the student -- upon notification and advisement of school personnel -- will have to make a choice and select one of the courses.

# CARMEL CATHOLIC GRADUATION REQUIREMENTS

**Twenty-six units of credit are required for the class of 2012 as follows:**

4	English
3	Mathematics (including Algebra and Geometry)
4	Religious Studies
3	Science
3	Social Studies (including World History, U.S. History, U.S. Government)
1	Physical Education
2	World Languages or Fine Arts
0.5	Health
0.5	Fine Arts
5	Electives

Because our new schedule allows all students to take seven classes rather than six, the total number of credits for graduation will increase each year.

## **Scheduling Awareness**

Effective for the 2009/10 school year, Carmel Catholic High School implemented a new rotation schedule which allows for the addition of one class period each year. This addition results in a change of credits necessary for graduation. In addition there have been two courses added to the list of required courses beginning with the classes of 2012 and 2013: one semester of Fine Arts and one semester of Health. The student can take the Fine Arts credit at any time during his or her four years; Health must be taken during either the freshman or sophomore year for the classes of 2014 and 2015.

The Administration has made the decision that an early dismissal option will continue for senior students.

Listed below are the requirements by class affecting registration for this year.

### **Class of 2012**

Credits necessary for graduation: 26

Required courses: English, Religion, U.S. Government, Social Studies

Students must take a minimum of six classes. Seniors have the option of choosing a seventh class or an early dismissal. It should be understood that because of the rotation schedule, the early dismissal option would apply to only those days on which period G is scheduled. Early dismissal requires that students exit the building and the school grounds.

### **Class of 2013**

Credits necessary for graduation: 27

Required courses: English, Religion, U.S. History, Mathematics, Biology

Students must take a minimum of seven classes. Two semesters of Physical Education, one semester of Fine Arts, one semester of Health, and one semester of Business must be completed before graduation.

### **Class of 2014**

Credits necessary for graduation: 27

Required courses: English, Religion, Geometry, Chemistry

Students must take a minimum of seven classes. World History must be taken during either the freshman or sophomore year. Two semesters of Physical Education, one semester of Health, one semester of Fine Arts and one semester of Business must be completed before graduation.

### **Class of 2015**

Credits necessary for graduation: 27

Required courses: English, Religion, Algebra, Physics

Students must take a minimum of seven classes. Health and World History must be taken during either the freshman or sophomore year. Two semesters of Physical Education, one semester of Health, one semester of Fine Arts and one semester of Business must be completed before graduation.

**MINISTRY PROGRAM – Because Carmel Catholic calls each student to be of service to others, each student must complete twenty hours of ministry each semester, even if a senior student takes two religion classes in one semester. These ministry hours are a graduation requirement. Other than incoming freshmen, Carmel students may complete their ministry requirement in the summer prior to the start of the school year.**

## **STATE OF ILLINOIS BOARD OF HIGHER EDUCATION ADMISSION REQUIREMENTS FOR PUBLIC UNIVERSITIES AND COMMUNITY COLLEGES**

### **High School Courses Required for Freshman Admission**

Public Act 86-0954 stipulates that for admission to public universities, freshman applicants are required to have completed successfully “at least 15 units of high school coursework from the following five categories:

4 years of English (emphasizing written and oral communications and literature);

3 years of social studies (emphasizing history and government);

3 years of mathematics (introductory through advanced algebra, geometry, trigonometry, or fundamentals of computer programming);

3 years of science (laboratory sciences); and

2 years of electives in world language, music, vocational education, or art.”

The Act allows institutions some flexibility in applying these requirements. Specifically, “up to 3 of the 15 units of coursework required...may be distributed by deducting no more than one unit each from the categories of social studies, mathematics, sciences, and electives and completing those 3 units in any of the 5 categories of coursework.”

## **THE CARLOS J. SERNA LEARNING CENTER**

Carmel Catholic High School is a successful, college preparatory school whose graduates enroll in post-secondary coursework at a rate of 99% annually. This matriculation rate is reinforced with the knowledge that our alumni are well-prepared for the next, more rigorous phase of their education.

There are many students from Carmel Catholic families, and beyond, who would benefit from a CCHS education but are prohibited from gaining admission due to learning exceptionalities, which are not currently supported by a formal program. To that end the Board of Directors is committed to offering a college preparatory program of study reinforced by a designated program of support for matriculated students who have documented learning exceptionalities.

Working in conjunction with the student's counselor and a learning specialist professional, students in the Serna Center will be provided with the support they need to achieve within a college preparatory setting.

Center participation, course selection, four year programming, and other activities surrounding students with documented exceptionalities are accommodated on an individual basis. Students and parents of the Class of 2015 and beyond should contact the Director of Admissions for further details.

**ART I #011**

**LEVEL: 9-10-11-12**  
**CREDIT: 1 ONE YEAR**  
**LAB FEE: \$145.00**  
**Art supplies are included in lab fee.**

Prerequisites: NONE

This course provides a strong foundation program in art, assuming students have little or no background. Drawing, composition and color theory are emphasized. Painting, ink, graphite and colored pencil drawing, graphic design and an introduction to computer graphics are some of the media with which the students work. Students may take this class P/F.

**ART II #012**

**LEVEL: 10-11-12**  
**CREDIT: 1 ONE YEAR**  
**LAB FEE: \$145.00**  
**Art supplies are included in lab fee.**

Prerequisites: Minimum grade of 76% in Art I #011 and signature of Art II #012 teacher

This course is a continuation of Art I #011 with further work in drawing, painting, color pencil, craypas and other 2D projects. Art II is a more creative, in depth study of color theory and perspective. Projects will emphasize an exploration of different techniques and mediums. Students may take this class P/F.

**ART III #013**

**LEVEL: 11-12**  
**CREDIT: 1 ONE YEAR**  
**LAB FEE: \$145.00**  
**Art supplies are included in lab fee.**

Prerequisites: Minimum grade of 76% in Art II #012 and signature of Art III #013 teacher

This course is for students to further develop the skills learned in Art I #011 and Art II #012. This course

allows students to work at an advanced level using various materials including acrylic and oil paint, sketching and computer graphics. With help from the teacher, students will develop their personal skills as an artist. Students have the opportunity to use Adobe Photoshop and other software. Students may take this class P/F.

**ART IV #014**

**LEVEL: 12**  
**CREDIT: 1 ONE YEAR**  
**LAB FEE: \$145.00**  
**Art supplies are included in lab fee.**

Prerequisites: Minimum grade of 76% in Art III #013 and signature of Art IV #014 teacher

This course is for students who want to further develop a high level of artistic sophistication. The students can work independently on projects. With help of the teacher, students will develop their personal skills as an artist. Students have the opportunity to use Adobe PhotoShop and other software. Students may take this class P/F.

**AP STUDIO ART #015**

**LEVEL: 12 ADVANCED PLACEMENT**  
**CREDIT: 1 ONE YEAR**  
**LAB FEE: \$145.00**  
**Art supplies are included in lab fee.**

Prerequisites: Two years of art (at least one at Carmel); minimum grade of 86%; signature of Studio Art #015 teacher

This course is for highly motivated and talented seniors who create various art works independently within a class structure and who participate in ongoing individual and group critiques. Students must be prepared to commit a significant amount of time to complete the portfolio required for their Advanced Placement Board evaluation; students begin working on projects during the

summer. Students will select some projects independently while other projects will be selected by the teacher. Students will use our digital camera to photograph their work for their portfolio. They complete a portfolio in Drawing. Students work on concentration, breadth and quality. There is an Advanced Placement evaluation fee determined annually by the College Board of about \$90.00.

**BEGINNING CERAMICS/SCULPTURE #016**

**LEVEL: 10-11-12**  
**CREDIT: 1 ONE YEAR**  
**LAB FEE: \$145.00**  
**Art supplies are included in lab fee.**

Prerequisites: Art I #011 with a minimum grade of 76% or better

In Ceramics, students will develop an understanding of clay construction. Students will focus on hand building. Raku firing will also be explored. Surface decoration including glaze and texture will be used. If students prefer working in another medium they may work with materials such as metals, wood and Styrofoam.

In Sculpture, students will learn basic sculpture techniques. They will work with modeling and carving using materials including clay, wire, wood, glass fusing, Styrofoam and metals.

Projects in ceramics and sculpture will expand the skills learned in Art I. Students may take this class P/F.

**ADVANCED  
CERAMICS/SCULPTURE  
#017**

**LEVEL: 11-12**  
**CREDIT: 1 ONE YEAR**  
**LAB FEE: \$145.00**  
**Art supplies are included in lab fee.**

Prerequisites: Beginning Ceramics/Sculpture #016 with a minimum grade of 76% or better

This course is for students who want to further develop their skills and techniques in ceramics and/or sculpture. Students may work with a variety of mediums including clay, metals, wood, glass fusing and Styrofoam. Students will continue to work with hand building and wheel throwing techniques. They will participate in the raku workshop. Sculpture skills will include modeling, carving and fabricating. Students may individualize their project choices. This class may be repeated for credit. Students may take this class P/F.

**HONORS CREDIT IN ART**

In order to be eligible for Honors Credit in Art II, Art III and Art IV, Beginning Ceramics/Sculpture and Advanced Ceramics/Sculpture students must have received a final grade of 93% or higher in the previous art class and have the instructor's approval. Students also will be expected to complete extra projects as assigned by the teacher.

**HISTORY OF ROCK AND  
ROLL #020**

**LEVEL: 9-10-11-12**  
**CREDIT: .5 ONE SEMESTER**

Prerequisite: NONE

This course is a survey course giving the student a view into the world of Rock and Roll including the roots, the genre, different styles of Rock, important creative centers of rock like

Motown to the two waves of the British invasion. The goal is to peak student's interest into the appreciation of the influence and energy rock placed on American Pop culture and the world. The students will have time to explore their own experience of the rock and roll world and make connections to their own heritage in the past. The students will be able to identify influential events in the American experience through the rock styles. Students will also have a deeper understanding of how music can help them express their philosophy and desires in life while connecting to teenagers of the past.

**BEGINNING GUITAR #022**

**LEVEL: 9-10-11-12**  
**CREDIT: .5 ONE SEMESTER**

Prerequisites: Each student must own or rent a guitar. It can be either an acoustic guitar or a classical guitar with nylon strings. Even though classical is a part of the instrument's core repertoire, it is used to play all kinds of music (classical, flamenco, popular, jazz, etc.). If purchasing a guitar, an inexpensive option is the Yamaha C40.

This course is open to all students interested in learning to play guitar. The course provides opportunities for students to develop their musical potential and aesthetic understanding through playing a guitar. Emphasis will be placed on playing position, tone production, fundamental technique, simultaneous playing and singing, reading music, and composing songs/lyrics. Both individual playing and group/ensemble playing will be explored. Knowledge and skills will include experiences in singing, creating, playing and listening. This course can be taken on a P/F basis.

**GUITAR II #065**

**LEVEL: 9-10-11-12**  
**CREDIT: .5 ONE SEMESTER**

Prerequisite: Minimum grade of 76% in Beginning Guitar #022 or signature of Guitar instructor.

This course is a one semester beginning guitar class level II. This course will reinforce and expand on the skills and techniques taught in beginning guitar Level I class. The class is open to Advanced beginners and premature intermediate players. The course will build student skills as well as develop the student's desire for life-long learning. Knowledge and skills will include experience in singing, creating, playing and listening. This course can be taken on a P/F basis.

**CONCERT CHOIR #024**

**LEVEL: 9-10-11-12**  
**CREDIT: 1 ONE YEAR**  
**UNIFORM FEE: \$40.00**

Prerequisites: NONE

This is a non-audition group. Any student with a desire to sing may enroll for this course as well as any student wanting to play piano and possibly accompany the choir. This course is open to all students (male and female) who are with or without prior high school choral experience. The basic concepts of sight-reading, interval drill, breathing, style, and performance are taught throughout the year. A complete repertoire of choral music, ranging from classical to contemporary, is studied. Participation in the two final choral rehearsals before the Christmas and Spring Concerts (outside of school time) and in all choral performances (Fall Concert, Christmas Concert, and Spring Concert) is required to earn credit in this course. This course can be taken on a P/F basis.

**TREBLE CHOIR #025**

**LEVEL: 9-10-11-12**  
**CREDIT: 1 ONE YEAR**  
**UNIFORM FEE: \$40.00**

Prerequisites: Completion of one year of high school chorus or by audition. Students interested in playing piano are also encouraged to enroll and possibly accompany the choir.

This course is open to all treble voice students (female) who have at least one year of high school choral experience or the equivalent. The course will be a continuation of the concepts of sight-reading, interval drill, breathing, style, and performance that are taught in Concert Choir #024.

A complete repertoire of choral music, ranging from classical to contemporary, is studied.

Participation in the two final choral rehearsals before the Christmas and Spring Concerts (outside of school time) and in all choral performances (Fall Concert, Christmas Concert, and Spring Concert) is required to earn credit in this course. This course can be taken on a P/F basis.

**ADVANCED CHOIR #027**

**LEVEL: 10-11-12**  
**CREDIT: 1 ONE YEAR**  
**UNIFORM FEE: \$40.00**

Prerequisites: Completion of one year of high school chorus and by audition. Teacher signature required. Students interested in playing piano are also encouraged to enroll and possibly accompany the choir.

This course is a continuation of the concepts covered in the Concert Choir #024 and Treble Choir #025 class. Participation in two final choral rehearsals before the Christmas and Spring Concerts (outside of school time) and in all choral performances Cabaret Concerts,

Christmas Concert, and Spring Concert) is required to earn credit in this course. This course can be taken on a P/F basis. This course is also available for honors credit.

**CO-CHOIR #028**

**LEVEL: 9-10-11-12 PERIOD M**  
**(MON., WED., AND FRI)**  
**CREDIT: .5 ONE YEAR**  
**CLASS FEE: \$100.00**  
**UNIFORM FEE: \$40.00**

Prerequisite: Members are selected by audition in the fall. There is no sign-up for this course prior to auditions. Instrumental students interested in playing piano, guitar (both rhythm and bass), and drums should see instructor.

This group (equal number of men and women, approximately 32 total) performs at all concerts plus tours off campus during the Christmas season and in late winter at area junior highs. The basic performance techniques learned are applied in the choreographed music (Broadway to Pop). Attendance at the Monday, Wednesday, and Friday morning rehearsals (and one Saturday rehearsal per semester) and all performances are required to earn credit. Ensembles chosen from this group include: Men's Quintet, Women's Quintet and Parkway Singers. This course can be taken on a P/F basis.

**PARKWAY SINGERS #030**

**LEVEL: 9-10-11-12 PERIOD M**  
**(TUE. AND FRI.)**  
**CREDIT: .5 ONE YEAR**  
**CLASS FEE: \$100.00**  
**UNIFORM FEE: \$40.00 (If student is also in Co-Choir, no additional uniform fee for Parkway Singers is required.)**

Prerequisite: This group is selected by audition in the fall during auditions for Co-choir. There is no sign-up for this course prior to auditions.

Instrumental students interested in playing piano, guitar (both rhythm and bass), and drums should see instructor.

In this course, students will develop vocal jazz techniques and sing three and four part vocal jazz music selections; be able to sing a cappella vocal jazz selections; and perform vocal jazz selections accompanied by a rhythm section. This course can be taken on a P/F basis. This course is also available for honors credit.

**CONCERT BAND #054**

**LEVEL: 9-10-11-12**  
**CREDIT: 1 ONE YEAR**  
**UNIFORM FEE: \$40.00**

Prerequisite: This is a non-audition group.

This band is made up of grades 9-12 with various levels of experience. The main focus of the band is the development of musicianship skills through popular music. Students will also develop good technique in intonation, finger dexterity, sight-reading and musical interpretation.

This band will perform at various school-related events. Members of this band join with Wind Ensemble during the fall sports season to create Marching Band. Members attend Marching Band Camp, which begins in the first week of August, and runs for approximately 7 or 8 consecutive weekdays. This course may be taken as a grade or P/F basis. Percussion members must attend summer Drumline Camp which is offered in the summer school program. The camp runs for the two weeks before the 4<sup>th</sup> of July.

**WIND ENSEMBLE #055**

**LEVEL: 9-10-11-12**  
**CREDIT: 1 ONE YEAR**  
**UNIFORM FEE: \$80.00**

Prerequisite: Membership is by audition only. Students must have good musician skills; display proficiency in scales; sight-reading, and intonation; and have at least four years of experience in a previous band or the equivalent in private lessons.

This band is an upper-level ensemble whose members display a high level of understanding on a given instrument. This band is the main instrumental performance group at Carmel Catholic High School and will perform at various school-related events. Members of this band join with Concert Band during the fall sports season to create Marching Band. Members must attend Marching Band Camp, which begins in the first week of August and runs for approximately 7 or 8 consecutive weekdays.

This course may be taken as a regular grade, honors grade or on a P/F basis. Percussion members must attend summer Drumline Camp which is offered in the summer school program. The camp runs for the two weeks before 4<sup>th</sup> of July.

**JAZZ BAND #056**

**LEVEL: 9-10-11-12 PERIOD M**  
**(MON., WED., AND FRI.)**  
**CREDIT: .5 ONE YEAR**  
**CLASS FEE: \$100.00**  
**UNIFORM FEE: \$40.00**

Prerequisite: Membership is by audition only in August, on the afternoon of freshman orientation. Wind and percussion players must be members of Wind Ensemble #055 or Concert Band #054. String and piano players must be members of at least one other performing ensemble.

Students must demonstrate good musicianship skills; be proficient in scales, sight-reading, intonation, and improvisation; and must have at least three years of prior band experience or the equivalent in private lessons. This band is designed to develop the student's understanding of jazz styles and technique. The ensemble performs at various school-related events and some jazz festivals throughout the region. Students in this course will contract to be graded either with letter grades or on a P/F basis.

**STRING ENSEMBLE #057**

**LEVEL: 9-10-11-12 PERIOD M**  
**CREDIT: .5 ONE YEAR**  
**UNIFORM FEE: \$40.00**

Prerequisite: This group is a non-audition group. Students must provide their own instruments.

This group is designed to further develop technique and musical interpretation in string genre. This group performs three concerts a year and at some liturgies. Students in this course will contract to be graded either with letter grades or on a P/F basis.

**JAZZ COMBO #058**

**LEVEL: 9-10-11-12 PERIOD M**  
**(TUES. AND THURS.)**  
**CREDIT: .5 ONE YEAR**  
**CLASS FEE: \$100.00**  
**UNIFORM FEE: \$40.00**

Prerequisite: Membership is by audition only in August on the afternoon of freshman orientation. Wind and percussion players must be members of Wind Ensemble #055 or Concert Band #054. String and piano players must be members of one other performing music group at Carmel Catholic High School.

This course is designed to develop the student's understanding of Jazz Be-Bop style and technique. Students

will learn how to decipher lead sheets by using a melodic line and chord symbols only. The ensemble will perform at various school-related events and some jazz festivals throughout the region. This course is also available for honors credit.

**MUSIC AND WORLD CULTURES #059**

**LEVEL: 9-10-11-12 HONORS**  
**CREDIT: 1 ONE YEAR**  
**LAB FEE: \$45.00**

**This course will be offered every other year. This course is available for 2011-2012 but not 2012-2013.**

Prerequisite: NONE

This course is the first of a two-year sequence. The course is divided into two semesters.

The first semester deals with music on a global view. The class explores the different cultures and how music is used to express their beliefs. This course concentrates on how cultures from the world define musical styles and genres. This class also views music through the lens of all the core subjects: Math, Science, Psychology, Sociology, Literature, Composition, Language, History, Political Science and Religion.

The second semester introduces students to the rudimentary elements of music: acoustics, four properties of sound, time and rhythmic development, scale structures, key signatures and musical notation. This semester promotes a student's skill level in deciphering and performing music.

**MUSIC AND WORLD CULTURES #060**

**LEVEL: 9-10-11-12 HONORS  
CREDIT: .5 ONE SEMESTER  
LAB FEE: \$23.00**

**This course will be offered every other year. This course is available for 2011-2012 but not 2012-2013.**

Prerequisite: Teacher signature required.

This course is the same as Music and World Cultures #059 but for students who can only fit in one semester of Music and World Cultures.

**AP MUSIC THEORY #061**

**LEVEL: 11-12  
ADVANCED PLACEMENT  
CREDIT: 1 ONE YEAR  
LAB FEE: \$45.00**

**This course will be offered every other year. This course is NOT available for 2011-2012 but will be available 2012-2013.**

Prerequisite: Successful completion of Music and World Cultures #059 and signature of AP Music Theory #061 teacher

AP Music Theory starts at the tonality structure and moves through four-part writing with figured bass. This course will also explore melodic development, harmonizing melodies, and musical analysis during the 18th century. In the spring term, AP Music Theory discusses chromatics from altered tones and chords to modulations. The AP class also covers the Advanced Placement curriculum in preparation for the AP music test in May. This course promotes the mastery of skills necessary to succeed in music outside of high school. Students are required to take the music theory advanced placement test.

**PERCUSSION ENSEMBLE #062**

**LEVEL: 9-10-11-12 PERIOD H  
(TUES. AND THURS.)  
CREDIT: .5 ONE YEAR  
CLASS FEE: \$100.00**

Prerequisite: Concurrent enrollment in either Wind Ensemble #055 or Concert Band #054

This ensemble develops the student's understanding of the percussion world whether it is traditional or non-traditional (Blue Man or Stomp). Students are required to be a member of Concert Band or Wind Ensemble. This group performs at various school events and Solo and Ensemble contests. Students may take this class on a P/F basis.

**HONORS CREDIT IN MUSIC: PERFORMANCE GROUPS**

Students will have the opportunity to work for honors credit in the following performance programs: Advanced Choir #027, Parkway Singers #030, Wind Ensemble #055 and Jazz Combo #058. Please read the section below for more information on requirements.

**REQUIREMENTS FOR HONORS CREDIT**

Advanced students in Advanced Choir, Jazz Combo, Parkway Singers, and Wind Ensemble may, with the instructor's approval, elect the honors level of that ensemble. These students will, as part of the requirements, remain as members of their curricular ensemble and fulfill all obligations of that ensemble.

**In addition, they would be required to perform the following activities:**

- (1) Study with a qualified private teacher outside of school at least once per week for at least eight

weeks each academic quarter. Verify to the regular classroom instructor weekly 30-minute lessons with a quarterly verification from the private instructor proving that practice has been done.

- (2) Perform a major work or solo on the student's primary instrument at the IHSA Solo & Ensemble Contest in March, for the Northwestern Illinois Solo & Ensemble Contest, an evaluated Tri-M recital, or schedule a private performance in front of at least two of the music faculty. Vocalists must be prepared to perform at least two songs, one in a foreign language. Perform a major solo work for the IHSA Solo and Ensemble Contest in March.
- (3) Develop and keep a portfolio, documenting all activities done in their honors program through the semester.

The portfolio must consist of the following:

Each honors music student will turn in a BINDER for each semester that includes the following items:

- Table of Contents
- Detailed (1 page minimum) summary of Honors Project
- Documentation (tickets, programs, and director/instructor signatures) and thorough reviews of three performances outside of Carmel Catholic High School
- Detailed summary of any other performances that the student has done in connection with the class

These items will all be neatly typed and placed in the binder. Points will be deducted for any item missing from the binder.

Binders are due five school days before the first day of finals each semester. Late binders will receive grade reduction.

- (4) Attendance at three performances outside of Carmel Catholic High School.
- (5) Music students applying for honors credit in more than one music course do not need to duplicate the above requirements

**And also choose two of the following projects:**

- (1) Prepare a written report of 1,000 words or more on a major composer or work. The research paper should cover the composer and his works, historical perspective, as well as the repertoire being performed.
- (2) Students must use proper format as well as a minimum of five sources with a maximum of two Internet sites. (More information about this requirement is available from each instructor.)
- (3) Audition for the IMEA District Choirs and Instrumental groups and/or selection to participate at the State level.
- (4) Participate in community or Parish/Church music groups (Signatures required)
- (5) Accompany a choir at concerts or accompany at least 3 solo and ensemble events.
- (6) Participate by playing or singing with the Liturgical Choir for at least 75% of the Masses and Liturgies. (Signatures required)
- (7) Other projects as approved by the Fine Arts Faculty.

**Clarification of Requirements**

- (1) Students who choose to audition for the IMEA District Festival must audition with the required material for State and District Audition. This audition will be held in October at a local high school.
- (2) Private lessons once a week for thirty minutes.

The number of lessons per quarter will be one less than the number of weeks in the quarter. For example, if we have ten weeks in one quarter the students must take nine lessons during that quarter. Students will be responsible for turning in the completed lesson form signed by the private teacher.

- (4) Solo performance. Your private instructor or a member of the Fine Arts faculty must approve all solo literature for the Illinois High School Association State Solo and Ensemble contest. Instrumentalists will perform a major solo work with piano accompaniment. Vocalists must prepare at least two songs, one in a foreign language. Students will be given a set of guidelines before the event. Students must show the director the solo selected to check for level of difficulty and appropriateness at least four weeks before the performance. The importance of this experience is that the student receives an outside critique of his/her playing/singing ability and can be better prepared for college auditions, which will be very similar to this experience.

**BASIC DRAMA TECH #070**

**LEVEL: 9-10-11-12**  
**CREDIT: .5 ONE SEMESTER**

Prerequisite: NONE

Beginning acting is an Arts Participation course designed to teach the basic skills, concepts and methods of modern acting techniques while using various theatre games, exercises and warm ups. The class will provide the students the opportunity to actively participate and strengthen those skills of concentration, focus, and creativity. Students will develop self confidence which is critical to performance and other life skills. Students will work on the elements of acting, how to create and analyze characters through monologues, scenes, pantomime and improvisation exercises. Study includes movement and voice techniques

**ADVANCED DRAMA/  
THEATRICAL  
TECHNIQUES #071**

**LEVEL: 10-11-12**  
**CREDIT: 1 ONE YEAR**

Prerequisite: Students must have taken Drama #070.

Students taking this class will have some basic knowledge of acting techniques from class or past performances. In this class, the students will develop the psychological and physiological part of acting.

We will study the history and movement of theatre as well as musical theatre and basic dance. Students will learn about all areas of production: costuming, set design, construction, hair, make-up and directing a show. They will develop a higher skill level for theatre appreciation through active participation and performance. They are required to participate in at least one school production as a cast or crew member.

**THEATER TECH #072**

**LEVEL: 9-10-11-12**  
**CREDIT: .5 ONE SEMESTER**

Prerequisite: NONE

This class is designed for the student who wants to learn "behind the scenes" work for theatre production. It is one semester and will include teaching basic skills of set design, painting, set construction and use of power tools. It will include lectures on technique, safety, use and care of all lighting and sound equipment. It will cover maintenance and safety of rigging, battens and curtains. There will be some lecture and brief coverage of the business side of production, props and costume design.

**ENGLISH LITERATURE  
AND LANGUAGE #110****LEVEL: 9 HONORS  
CREDIT: 1 ONE YEAR**

This course is offered to highly motivated and capable students. It is designed to enrich reading, writing, grammar, vocabulary, listening, and discussion skills. Elements of correct grammar, in-depth analysis of various literary types, and the writing process are developed. Literary types studied include drama, novel, short story, nonfiction, and poetry. Writing forms studied include paragraphs, expository and narrative essays, and creative writing. Composition is used as a tool for literary analysis, and library work is required.

**ENGLISH LITERATURE  
AND LANGUAGE #111****LEVEL: 9  
CREDIT: 1 ONE YEAR**

This course reviews the basic elements of grammar, sentence patterns and structure, phrases, and clauses. Students will develop punctuation and vocabulary. Students are guided in improving their writing, reading, and speaking skills. Students expand their understanding of human nature by interpreting short stories, dramas, poems, novels, and nonfiction prose.

**ENGLISH LITERATURE  
AND LANGUAGE #112****LEVEL: 9  
CREDIT: 1 ONE YEAR**

This course reviews the basic elements of grammar, sentence patterns and structure, and phrases. Students will develop punctuation and vocabulary. Students are guided in improving their writing, reading, and speaking skills. Students expand their understanding of human nature by interpreting short stories, dramas,

poems, novels, and nonfiction prose. English #112 has the same content as English Literature and Language #111, but it progresses at a more moderate pace.

**CRITICAL READING AND  
SKILLS ENHANCEMENT  
#113****LEVEL: 9  
CREDIT: 1 ONE YEAR  
FEE: \$40.00**

This skill-building course, required for freshmen who do not score at grade level in reading, is designed to increase the student's efficiency in reading and study skills. This course emphasizes comprehension at three levels (literal, interpretive, and critical) while using a variety of reading materials. Each student will learn the necessary skills that allow him/her to perform efficiently in content areas. The student must also enroll in English Literature and Language #112.

**AMERICAN LITERATURE/  
COMPOSITION #120****LEVEL: 10 HONORS  
CREDIT: 1 ONE YEAR**

Prerequisites: Signature of freshman English teacher; minimum of 86% in English I Honors #110

This course presents representative works of American literature from its origins to the present. Students read poetry, drama, fiction and nonfiction. Students also review grammar, refine vocabulary skills, deliver oral presentations and speeches, and compose essays and creative responses to literature. In all these activities, critical thinking is a priority.

**AMERICAN LITERATURE/  
COMPOSITION #121****LEVEL: 10  
CREDIT: 1 ONE YEAR**

Prerequisites: Completion of English I; signature of freshman English teacher

This course explores the development of American literature from its origins to the present. Students also study grammar and vocabulary in conjunction with their reading and writing. In composition, the focus is on the process of writing in the standard modes of discourse. Class discussions and speeches offer students additional opportunities to share their insights with others. Study of literature will encourage the recognition and implementation of diverse creative writing styles.

**BRITISH LITERATURE/  
COMPOSITION #130****LEVEL: 11 HONORS  
CREDIT: 1 ONE YEAR**

Prerequisites: Signature of sophomore English teacher; minimum of 86% average in American Lit/Comp Honors #120

This course deals with major selections from Anglo-Saxon through twentieth-century prose and poetry of the British Isles. Students read and study major English pieces. Essays relate to the literature and to the student's own life experiences. Students are required to write a research paper and deliver individual and group presentations. Students are required to complete a summer reading assignment.

**BRITISH LITERATURE/  
COMPOSITION #131**

**LEVEL: 11**  
**CREDIT: 1 ONE YEAR**

Prerequisites: Signature of sophomore English teacher; completion of American Lit/Comp #121

This course deals with major selections from Anglo-Saxon through twentieth-century prose and poetry of the British Isles. Students study at least three major works in detail. This course emphasizes expository and persuasive writing, including documented research projects; speeches; stresses skills needed for national testing; and includes the building of vocabulary skills. Students are required to write a major research paper and deliver individual and group presentations.

**AP ENGLISH LANGUAGE/  
COMPOSITION #135**

**LEVEL: 11 ADVANCED PLACEMENT**  
**CREDIT: 1 ONE YEAR**

Prerequisites: Signature of sophomore English teacher; minimum of 88% average in American Lit/Comp Honors #120

This college level course, which prepares and requires students to take the English Language and Composition AP Test, is, above all, a writing course with an emphasis on argumentation and persuasion, although the overall course goal is to enable students to become skilled writers who can compose for a variety of purposes. In addition to writing in formal contexts – including a research project – students imitate master writers, respond to the ideas of contemporary writers who address some of today’s important issues, and engage in informal discussions and debates.

In addition, students increase their reading skills as they learn to read complex texts with understanding. Select masterpieces of British writers, as well as an assortment of non-fiction pieces, provide the basis for study. Students are required to complete a summer reading assignment.

**WORLD LITERATURE AND  
COMPOSITION #140**

**LEVEL: 12 HONORS**  
**CREDIT: 1 ONE YEAR**

Prerequisites: Signature of junior English teacher; minimum of 86% average in British Lit/Comp Honors #130

This course features literature from Africa, Asia, Europe, and Central/South America. Exploring masterpieces from a variety of time periods, students will deepen their understanding and widen their appreciation of the writer's craft and of cultural expression. With an emphasis on literary analysis and personal response, students will explore their ideas in formal and informal papers, in Socratic discussions, and through a variety of other activities, such as individual and group presentations, speeches, and creative dramatics. Students are required to complete a summer reading assignment.

**WORLD LITERATURE AND  
COMPOSITION #141**

**LEVEL: 12**  
**CREDIT: 1 ONE YEAR**

Prerequisite: Signature of junior English teacher; completion of British Literature/Composition #131

Featured in this course is literature from around the globe, including novels, plays, short stories, and poetry. Students explore the artistry and the timelessness of these works,

which represent 2500 years of literary creation.

Students are expected to articulate their responses in a variety of modes, ranging from individual papers to group presentations and speeches.

**AP ENGLISH LITERATURE/  
COMPOSITION #145**

**LEVEL: 12 ADVANCED PLACEMENT**  
**CREDIT: 1 ONE YEAR**

Prerequisites: Signature of junior English teacher; minimum of 88% in English Literature/Composition Honors #130 or a minimum of 80% average in Advanced Placement English Language #135

In this college level course, which prepares and requires students to take the Literature and Composition AP Test, students are engaged in the careful reading of literary works. Through such study, they sharpen their awareness of language and their understanding of the writer’s craft; they develop critical standards for the independent appreciation of any literary work. To achieve these goals, students study the individual work, its language, characters, action, and themes. They consider its structure, meaning, and value, and its relationship to contemporary experience as well as to the time in which it was written. Students articulate their responses in a variety of modes. Students are required to complete a summer reading assignment.

**FILM APPRECIATION #160**

**LEVEL: 11-12**  
**CREDIT: .5 ONE SEMESTER**

Prerequisite: NONE

This course explores the history of cinema with a focus on film as an art form. Narrative structure is emphasized, with ample time given to studying the craft of filmmaking.

Skills such as screenwriting, editing, directing, lighting and cinematography are examined.

Students will learn how classic and contemporary films are constructed with the aid of a comprehensive text, online resources, DVD clips and full-feature presentations.

*This is an elective course and must be taken in addition to one credit in English.*

**CREATIVE WRITING #162**

**LEVEL: 10-11-12**  
**CREDIT: .5 ONE SEMESTER**

Prerequisite: NONE

This course is designed for serious writers who want to practice the craft of writing in its many forms. Students will spend time in and out of class writing journals, short stories, drama, poetry and assorted nonfiction. Students will engage in guided writing exercises to encourage new uses of language and structure. Much of the work will look at writing as a process, and students will share work with both peers and instructor during revision. Students may take this course more than once.

*This is an elective course and must be taken in addition to one credit in English.*

**SPEECH #163**

**LEVEL: 10-11-12**  
**CREDIT: .5 ONE SEMESTER**

Prerequisite: NONE

This course will guide students in the study of human communications with an emphasis on public speaking. Students will work as a community to study and practice the characteristics of successful speakers, often engaging in peer evaluation and constructive criticism. Students will participate in

written and verbal exercises to improve their communication skills.

Students will also work to communicate their ideas through informative, persuasive, and entertaining speeches, while focusing on the use of clear diction, appropriate projection, and meaningful body language.

*This is an elective course and must be taken in addition to one credit in English*

**INTRODUCTION TO JOURNALISTIC WRITING #171**

**LEVEL: 9-10-11-12**  
**CREDIT: .5 ONE SEMESTER**

Prerequisite: NONE

The student who enrolls in Introduction to Journalistic Writing will be reading, communicating, critically thinking, analyzing and writing throughout the course. The course covers the entire process of journalism: history, legal and Christian ethical components and the organization of a publication. Newsgathering, writing, editing, interviewing, deadlines, layout, design and current publication trends are emphasized, as is media convergence. Creation of and participation in online media is required.

*This is an elective course and must be taken in addition to one credit in English.*

**JOURNALISM #172**

**LEVEL: 10-11-12**  
**CREDIT: 1 ONE YEAR**

Prerequisites: Minimum grade of 86% in Introduction to Journalistic Writing #171; or newspaper adviser's signature

Students enrolled in this course are primarily responsible for the news stories, photographs, design and layout for Crossroads, the school's monthly news magazine. Newsgathering, writing, editing, design, deadlines, production and organization of departmental duties involving journalism students are required skills emphasized in this class. These journalists must be able to form questions, analyze data, and examine cause-effect relationships. In addition, students are required to work on the paper approximately five hours per week outside of normal classroom time.

*This is an elective course and must be taken in addition to one credit in English.*

**JOURNALISM H #173**

**LEVEL: 10-11-12 HONORS**  
**CREDIT: 1 ONE YEAR**

Prerequisite: Minimum grade of 86% in Introduction to Journalistic Writing #171 or Journalism #172. Students who apply for Honors Journalism #173 should sign up for Journalism #172 and will be moved to Honors Journalism by the adviser.

The student who enrolls in Honors Journalism #173 will assume an editorial status on Crossroads, Carmel Catholic High School's student newspaper.

This student is responsible for the layout and design of a particular section of the newspaper on a monthly basis, as well as overseeing his or her own staff members on the section.

Journalistic elements learned in Introduction to Journalistic Writing, Adobe In Design, and/or Journalism-newsgathering, writing, editing, interviewing, deadlines, layout, design, current trends and production-will be employed by the student.

This student is responsible for guiding newspaper staff members in forming questions, analyzing data and examining cause-effect relationships. In addition, the student is required to work on the newspaper approximately five hours per week outside of normal classroom time, including mandatory meetings. Editors are also required to attend two late night sessions per issue. Students also must be willing to attend a summer workshop to strengthen skills in layout and design, writing, and leadership.

*This is an elective course and must be taken in addition to one credit in English.*

**YEARBOOK #175**

**LEVEL: 10-11-12**  
**CREDIT: .5 ONE YEAR**

Prerequisites: Staff positions are limited to a maximum of 22. Summer workshop is mandatory for the Editor and Co-Editor positions. (Mid-July; extra fee)

For students interested in design, copywriting, and photography, Yearbook is an elective course designed specifically for the production of the Carmel Catholic yearbook. The staff creates pages, conducts interviews, writes copy and chooses photographs. Students gain experience in desktop publishing.

*This is an elective course and must be taken in addition to one credit in English.*

**RESEARCH AND TECHNOLOGY FOR HIGH SCHOOL, COLLEGE, AND BEYOND #180**

**LEVEL: 12**  
**CREDIT: .5 ONE SEMESTER**

Prerequisite: NONE

The purpose of the class is to develop basic understandings of the research process, the types and uses of information, and the use of Web 2.0 technologies to collaborate with others. Students will learn the process necessary to be successful researchers, including strategies for reading and analyzing information and data from a variety of different sources, organizing their work with notes and outlines, creating research questions and theses, and synthesizing information. Students will also learn about strategies that will improve their abilities to work in groups and collaborate. All of these strategies will be enhanced through the use of wikis, clouds, chats, social networks, podcasts, screencasts, vodcasts.

Students will learn about a variety of sources of information and how to use them effectively. Students will hone their skills throughout the semester and will demonstrate their mastery of skills by completing a final creative project that will allow students to research more in depth a discipline of their choice.

Students will use many online resources, including watching vodcasts, listening to podcasts, and interacting with the teacher and other classmates on their own time. Extensive support will be available to students, but students should have some knowledge of general internet tools such as email, social networks, blogs, and YouTube. This course will meet period G.

**ADVANCED ALGEBRA  
#210****LEVEL: 9 HONORS  
CREDIT: 1 ONE YEAR**

Prerequisites: Grade school certification of successful completion of one full year of Algebra; successful completion of Math proficiency test; parental permission; approval of the department chairperson

This course contains a brief review of Algebra I and progresses to the advanced topics needed for college mathematics. Logical thinking is reinforced through problem solving. Students are introduced to conics through the Cartesian coordinate system. The topics investigated are real and complex numbers, systems of equations and inequalities, determinants, matrices, polynomial functions, and exponential and logarithmic functions. Some basic properties of trigonometry are covered. A TI-83 or TI-84 graphing calculator is required for this course.

**ALGEBRA I #220****LEVEL: 9 HONORS  
CREDIT: 1 ONE YEAR**

The purpose of the course is to develop the algebraic skills required of honors students. The course content includes the solution of linear and quadratic equations, systems of linear equations, polynomial expressions, and axiomatic proofs. The structure of algebra is presented as a logical system of deductive and inductive problem solving. A TI-83 or TI-84 graphing calculator is required for this course.

The graphing calculator is required during class and is used for evaluating expressions, equations, solving systems, solving and graphing matrix operations, and data analysis.

**ALGEBRA I #222****LEVEL: 9  
CREDIT: 1 ONE YEAR**

The course treats the essential topics associated with a first-year Algebra course. The student is exposed to the fundamentals of problem solving with an emphasis placed on methods and techniques. Various types of word problems are considered. The student acquires a basic understanding of algebraic principles and concepts. Equations, inequalities, polynomials, factoring, functions, systems of linear equations and their graphs, rational and irrational numbers, and quadratic equations are introduced. Problem-solving techniques include the translation of the written statement into mathematical terminology. The cognitive skills of analysis and cause and effect are stressed. A TI-83 or TI-84 graphing calculator is required for this course and is used during the class.

**ALGEBRA I #224****LEVEL: 9  
CREDIT: 1 ONE YEAR**

The course treats the essential topics associated with a first-year Algebra course. The student is exposed to the fundamentals of problem solving with an emphasis on methods and techniques. The student acquires a basic understanding of algebraic principles and concepts. Equations, inequalities, polynomials, factoring, functions, systems of linear equations and their graphs, rational and irrational numbers, and quadratic equations are introduced. Problem-solving techniques include the translation of the written statement into mathematical terminology. A TI-83 or TI-84 graphing calculator is required for this course and is used during the class.

**GEOMETRY #230****LEVEL: 10 HONORS  
CREDIT: 1 ONE YEAR**

Prerequisites: Minimum grade of 76% in Advanced Algebra #210, minimum grade of 76% in Algebra I Honors #220 or a minimum grade of 93% in Algebra I #222; signature of current Math teacher

This course presents the fundamental concepts associated with Euclidean Geometry. The concepts include congruency, similarity, the Pythagorean theorem, and parallelism. Other topics covered are logic, polygons, circles, solid figures, and area and volume. A unit on trigonometry is included. Deductive proofs are used to develop an axiomatic logic structure. Through the study of Euclidean Geometry, the student is presented with a systematic process, which is useful in the solution of real life problems. A TI-83 or TI-84 graphing calculator is required for this course.

**GEOMETRY #231****LEVEL: 10  
CREDIT: 1 ONE YEAR**

Prerequisites: Minimum grade of 76% in Algebra I #222; minimum grade of 93% in Algebra I #224; signature of current Math teacher

This course introduces the student to Euclidean Geometry. Deductive and inductive logic are used to develop an axiomatic mathematical system. The concepts of mathematical proof, congruency, similarity, points, and parallelism are considered. The student is encouraged to use the logical processes taught in the course to solve daily problems. A TI-83 or TI-84 graphing calculator is required for this course.

**GEOMETRY #232****LEVEL: 10****CREDIT: 1 ONE YEAR**

Prerequisites: Minimum grade of 70% in Algebra I #222 or Algebra I #224; signature of current Math teacher

The course is designed for the student who has demonstrated the need for a less rigorous treatment of geometry. All the concepts that are covered in Geometry #231 are introduced, but with less emphasis on deductive proof and algebraic concepts. The topics covered are points, lines, angles, triangles, polygons, circles, solid figures, congruence, similarity, ratio and proportion, perimeter, area and surface area and volume, and coordinate graphs. A TI-83 or TI-84 graphing calculator is required for this course.

**ALGEBRA II #240****LEVEL: 10-11 HONORS****CREDIT: 1 ONE YEAR**

Prerequisites: Minimum grade of 76% in Algebra I Honors #220 and a minimum grade of 76% in Geometry Honors #230 or minimum grade of 93% in Algebra I #222 and a minimum grade of 90% in Geometry #231 and successful completion of the Algebra I Honors proficiency exam. The course may be taken in conjunction with Geometry Honors #230 with a minimum grade of 93% in Algebra I Honors #220 or the student could have completed Geometry Honors #230 with a minimum grade of 76% or Geometry #231 with a minimum grade of 93%. Signature of current Math teacher is required.

The course is for the above-average student taking a second course in Algebra. It contains a review of Algebra I and progresses to the advanced topics needed for college mathematics. Logical thinking is reinforced through problem solving.

Students are introduced to conics through the Cartesian coordinate system. The topics investigated are real and complex numbers, systems of equations and inequalities, determinants, matrices, polynomial functions, and exponential and logarithmic functions. Some basic properties of trigonometry are covered. A TI-83 or TI-84 graphing calculator is required for this course.

**ALGEBRA II #241****LEVEL: 10-11-12****CREDIT: 1 ONE YEAR**

Prerequisites: Minimum grade of 76% in Algebra I #222 and successful completion of Geometry or successful completion of Topics in Mathematics #245. Signature of current Math teacher is required.

This course contains a review of Algebra I and introduces the advanced topics required for college mathematics. The student learns to translate an English statement into a mathematical expression through the use of word problems.

Topics covered include the field properties, the solution of linear and quadratic equations, systems of equations, inequalities, determinants, polynomials, rational expressions, complex numbers, and an introduction to logarithms and trigonometry. A TI-83 or TI-84 graphing calculator is required for this course.

**PRE-CALC/TRIG #242****LEVEL: 11-12****CREDIT: 1 ONE YEAR**

Prerequisites: Minimum grade of 88% in Algebra II #241 or successful completion of Algebra II Honors #240; signature of current Math teacher.

This course focuses on an in-depth study of functions including linear, absolute value, step, quadratic and higher order polynomial, radical, rational, exponential, logarithmic and trigonometric functions. Graphs are analyzed in terms of special characteristics such as maxima/minima, end behavior, intercepts and asymptotes. An in-depth study of trigonometry includes a substantive review of right triangle trigonometry, law of sines/cosines, and trig graphs as well as the incorporation of critical analysis and modeling as the trig study extends through trig identities and trig equations. Additional topics include: conics and their graphs, sentences and series, combinatorics and an introduction to calculus. A TI-83 or TI-84 graphing calculator is required for this course.

**TOPICS IN MATHEMATICS #245****LEVEL: 11-12****CREDIT: 1 ONE YEAR**

Prerequisites: Successful completion of Algebra I and Geometry; signature of current Math teacher

The course develops the basic concepts associated with an elementary college algebra program. The content consists of the solution of linear and quadratic equations, exponential equations, and systems of linear equations and inequalities. Practical life problems are presented to provide the student with real life examples. Graphing of functions provide the student with visual representations of geometric and algebraic concepts. A TI-30Xa scientific calculator or better is required for this course.

**PRE-CALC/TRIG #246**

**LEVEL: 12**  
**CREDIT: 1 ONE YEAR**

Prerequisites: Successful completion of Algebra II #241; signature of current teacher

This course includes an introduction to functions, linear functions, polynomials and their graphs, rational and radical functions, exponential and logarithmic functions, right triangle trigonometry, including law of sines and cosines, angles and the Unit Circle, graphing trig functions, trig identities, polar equations and graphs, vectors, sequence and series.

This course is intended for the college bound senior who has completed Algebra II and who needs a course to prepare him/her for college math. A TI-83 or TI-84 graphing calculator is required for this course.

**PROGRAMMING I #248**

**LEVEL: 10-11-12**  
**STANDARD & HONORS**  
**CREDIT: .5 SEMESTER ONE**  
**LAB FEE: \$45.00**

Prerequisites: Minimum grade of 80% in Algebra I #222, #220, or successful completion of any higher level course

This course can be taken at either the honors level or standard level. Once enrolled, students will choose which level they wish to take. The honors level course will have additional requirements to complete beyond that of the regular level course. This is an introductory computer programming class using the C++ language.

Concepts to be studied include fundamental data types, variable assignment, comparisons, decision statements, and iterated loops. We will also study particular features of the C++ language, such as object-oriented design and object classes.

**PROGRAMMING II #249**

**LEVEL: 10-11-12**  
**STANDARD & HONORS**  
**CREDIT: .5 SEMESTER TWO**  
**LAB FEE: \$45.00**

Prerequisite: Minimum grade of 80% in Programming I #248

This course can be taken at either the honors level or standard level. Once enrolled, students will choose which level they wish to take. The honors level course will have additional requirements to complete beyond that of the regular level course.

This course is a continuation of Programming I #248. Students continue learning basic programming principles but now use the JAVA programming language. Students will write complete programs utilizing object classes, comparisons, decision statements, and iterated loops. They will also learn how to use debugging techniques as an aid to constructing programs. Successful completion (note the above prerequisites) of both Programming I and Programming II will allow students to register for AP Computer Programming.

**PRE-CALC/TRIG #250**

**LEVEL: 11-12 HONORS**  
**CREDIT: 1 ONE YEAR**

Prerequisites: Minimum grade of 93% in Advanced Algebra #210 or 86% in Algebra II Honors #240; signature of current Math teacher

This course provides a transition between high school and college mathematics. Intermediate algebra, analytic geometry, and trigonometry are integrated with other important topics in mathematics by an approach that stresses functions. Separate chapters place special emphasis on trigonometric functions, polynomial functions, and transcendental

functions. A discussion of rational and irrational numbers provides an early introduction to limits. This concept reappears in sections on graphing functions, upper and lower bounds, and sequences.

In the latter part of the course, the concept of limit is treated again using a more formal, precise definition. This is an intuitive introduction to differential calculus. A TI-83 or TI-84 graphing calculator is required for this course.

**AP PROGRAMMING #251**

**LEVEL: 12 ADVANCED PLACEMENT**  
**CREDIT: 1 ONE YEAR**  
**LAB FEE: \$90.00**

Prerequisites: Minimum grade of 86% in Programming II Honors #249; signature of current Programming teacher

This class is designed for students who have successfully completed Programming I and Programming II and who are interested in continuing their study of computer science. The class covers the curriculum of the Advanced Placement program in preparation for the AP exam. The JAVA language is used to explore advanced issues of object-oriented programming. Topics include: interfaces and polymorphism, event handling, inheritance, applets, graphical user interfaces, advanced data types, sorting and searching, and recursion.

**AP STATISTICS #252****LEVEL: 12 ADVANCED PLACEMENT  
CREDIT: 1 ONE YEAR**

Prerequisites: Minimum grade of 93% in Algebra II #241 or a minimum grade of 86% in Algebra II Honors #240; signature of current Math teacher

This course is an upper level mathematics course intended to provide the student with strong background required for a variety of college majors. AP Statistics involves the study of four main areas: exploratory analysis; planning a study; probability; and statistical inference. AP Statistics is a course that differs significantly from other mathematics courses because the focus is on a mathematical understanding as well as a accurate and thorough communication of that understanding. In this course, students will design surveys and experiments, gather data, analyze the data graphically and numerically, and interpret the results through inferential statistics.

This course is designed to prepare students for the Advanced Placement Exam offered by the College Board. A TI-83 or TI-84 graphing calculator is required for this course.

**AP CALCULUS #260****LEVEL: 12 ADVANCED PLACEMENT  
CREDIT: 1 ONE YEAR**

Prerequisites: 93% or better in Pre-Calculus/Trigonometry #250; signature of current Math teacher

The course introduces the student to the techniques used in differentiation and integration. The concepts taught include limits, coordinate geometry, differentiation, and integration. Exponential and logarithmic functions are considered along with transcendental functions.

This course is designed to prepare students for the Advanced Placement exam offered by the College Board. A TI-83 or TI-84 graphing calculator is required for this course. Students are required to take the AP exam.

**CALCULUS #261****LEVEL: 12 HONORS  
CREDIT: 1 ONE YEAR**

Prerequisites: Minimum of 93% in Advanced Concepts #242 or a minimum grade of 76% in Pre-Calculus/Trigonometry #250; signature of current Math teacher

The course is provided for students with above-average ability in the field of mathematics. The content provides the student with a fundamental knowledge of calculus so that a course of study in business, engineering, the sciences, and humanities can be further pursued at the college level of instruction. The student differentiates and integrates polynomial functions and trigonometric functions and is able to use calculus in the solution of work-related problems. A TI-83 or TI-84 graphing calculator is required for this course.

## WORLD LANGUAGES DEPARTMENT

**PLEASE NOTE: In order to properly place incoming freshmen who have completed the equivalent of one year of a high school world language course, a proficiency test is required. Application forms are available at registration.**

### **FRENCH I #310**

**LEVEL: 9-10-11-12 HONORS  
CREDIT: 1 ONE YEAR  
FEE: \$6.00 NATIONAL FRENCH TEST FEE**

Prerequisites:

**Sophomores, Juniors, Seniors:**

Minimum grade of 86% in English and signature of current English teacher. All enrollments require signature of the department chair. This course requires no prior knowledge of French.

This course is conducted heavily in French and concentrates on promoting linguistic ability by learning vocabulary and French language structures. Emphasis is placed on culture, accurate pronunciation, vocabulary development of approximately 1,300 items, and on correct grammar. Furthermore, this course promotes verbal and non-verbal communication skills when using the language in situational contexts. This course stresses vocabulary retention and application of grammar and structural forms.

### **FRENCH II #311**

**LEVEL: 9-10-11-12 HONORS  
CREDIT: 1 ONE YEAR  
FEE: \$6.00 NATIONAL FRENCH TEST FEE**

Prerequisites:

**Freshmen:** Placement test and department placement required.

**Sophomores, Juniors, Seniors:** Minimum grade of 76% in each

category of evaluation in French I Honors #310 and signature of previous French teacher.

Department chair signature required if not currently enrolled in French.

NB: It is expected that vocabulary and grammar from the previous language course have been retained so that there is an appropriate foundation for further study.

This course is conducted in French and concentrates on promoting more complex linguistic ability by learning a wide selection of vocabulary and applying progressively intricate language structures. The emphasis is on correct grammar, vocabulary development, and accurate pronunciation. It promotes verbal and non-verbal communication skills while using language in situational contexts. Writing skills are broadened. Students compare and contrast their culture with that of the French-speaking people of the world.

### **FRENCH III #312**

**LEVEL: 9-10-11-12 HONORS  
CREDIT: 1 ONE YEAR  
FEE: \$6.00 NATIONAL FRENCH TEST FEE**

Prerequisites:

**Freshmen:** Placement test and department placement required.

**Sophomores, Juniors, Seniors:**

Minimum grade of 76% in each category of evaluation in French II Honors #311 and signature of previous French teacher.

Department chair signature required if not currently enrolled in French.

NB: It is expected that vocabulary and grammar from the previous language course have been retained so that there is an appropriate foundation for further study.

This course is conducted in French and incorporates the four balanced-skills approach of the earlier levels: listening, speaking, reading, and writing. Vocabulary and grammar from earlier levels are reviewed, refined, and expanded. Emphasis is placed on broadening and enhancing conversation, grammar, reading, and composition skills. The students read materials based on a selection of current periodicals, portions of classic literature, and cultural readings. Students become familiar with the differences between their culture and that of the French-speaking world.

### **AP FRENCH LANGUAGE #314**

**LEVEL: 11-12  
ADVANCED PLACEMENT  
CREDIT: 1 ONE YEAR  
FEE: \$6.00 NATIONAL FRENCH TEST FEE**

Prerequisites: Minimum grade of 86% in each category of evaluation in French III Honors #312 or French IV Honors #318 and signature of previous French teacher.

NB: It is expected that vocabulary and grammar from the previous language course have been retained so that there is an appropriate foundation for further study.

This course is conducted in French. Previous vocabulary and grammar are reviewed, refined, and expanded.

The course acquaints the student with literature featuring various literary and cultural themes. The students become aware of the differences in culture between the French-speaking world and the English-speaking world. Short stories, excerpts from novels and plays, and articles from periodicals offer an opportunity for the student to read with understanding and to gain deeper insights into the nature and structure of the French language.

## WORLD LANGUAGES DEPARTMENT

Reading, writing, and speaking in French are very important aspects of this course. Students are prepared for the AP French Language Examination.

### **FRENCH I #315**

**LEVEL: 9-10-11-12**

**CREDIT: 1 ONE YEAR**

**FEE: \$6.00 NATIONAL FRENCH TEST FEE**

Prerequisites:

**Freshmen:** Enrollment in English #111.

Placement test may be required. All enrollments require signature of the department chair.

This course provides the students with an introduction to the French language. It promotes verbal and nonverbal communication skills in French and the use of the language in familiar settings. The students learn about cultural differences, and they learn to be more tolerant and respectful of other people's views. Note taking, listening, speaking, reading, and writing skills are developed in the French language. Emphasis is on conversational vocabulary and correct pronunciation. Simple grammatical structures are introduced.

### **FRENCH II #316**

**LEVEL: 9-10-11-12**

**CREDIT: 1 ONE YEAR**

**FEE: \$6.00 NATIONAL FRENCH TEST FEE**

Prerequisites:

**Freshmen:** Placement test and department placement required.

**Sophomores, Juniors, Seniors:** Minimum grade of 76% in each category of evaluation in French I #315 and signature of previous French teacher.

Department chair signature required if not currently enrolled in French.

NB: It is expected that vocabulary and grammar from the previous language course have been retained so that there is an appropriate foundation for further study.

This course is conducted heavily in French. The beginning of this course is based on intense review from the previous year. This course develops and expands the vocabulary, grammar, and pronunciation taught in French I #315. Additions of approximately 700 vocabulary items are introduced. Basic skills continue to be stressed. Students learn to take notes, to exchange information, and to maintain simple conversations in French. Students read and comprehend short reading selections and improve basic writing skills. Cultural comparisons enable the students to appreciate and understand the uniqueness of other cultures as well as their own.

### **FRENCH III #317**

**LEVEL: 9-10-11-12**

**CREDIT: 1 ONE YEAR**

**FEE: \$6.00 NATIONAL FRENCH TEST FEE**

Prerequisites:

**Freshmen:** Placement test and department placement required.

**Sophomores, Juniors, Seniors:** Minimum grade of 76% in each category of evaluation in French II #316 and signature of previous French teacher.

Department chair signature required if not currently enrolled in French.

NB: It is expected that vocabulary and grammar from the previous language course have been retained so that there is an appropriate foundation for further study.

This course is conducted in French and concentrates on promoting more complex linguistic ability by learning a broader selection of vocabulary and applying progressively intricate language structures. The emphasis is on correct grammar, vocabulary development, and accurate pronunciation. It promotes verbal and non-verbal communication skills while using language in situational contexts. Writing skills are broadened. Students compare and contrast their culture with that of the French-speaking people of the world. Based on enrollment, students in French III #317 may be combined with students in French II Honors #311.

### **FRENCH IV #318**

**LEVEL: 10-11-12 HONORS**

**CREDIT: 1 ONE YEAR**

**FEE: \$6.00 NATIONAL FRENCH TEST FEE**

Prerequisites: Minimum grade of 76% in each category of evaluation in French III #317 and signature of previous French teacher.

NB: It is expected that vocabulary and grammar from the previous language course have been retained so that there is an appropriate foundation for further study.

This course is conducted in French and incorporates the four balanced-skills approach of the earlier levels: listening, speaking, reading, and writing. Vocabulary and grammar from earlier levels are reviewed, refined, and expanded.

Emphasis is placed on broadening and enhancing conversation, grammar, reading, and composition skills. The students read materials based on a selection of current periodicals, portions of classic literature, and cultural readings. Students become familiar with the differences between their culture and that of the French-speaking world.

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Based on enrollment, students in French IV #318 may be grouped with French III Honors #312.

### LATIN I #340

**LEVEL: 9-10-11-12 HONORS**  
**CREDIT: 1 ONE YEAR**  
**FEE: \$4.00 NATIONAL LATIN TEST FEE**

Prerequisites:

**Freshmen:** Above average grades in elementary school. Department placement required.

**Sophomores, Juniors:** Minimum grade of 86% in English and signature of current English teacher. This course requires no prior knowledge of Latin.

This is an introductory course stressing the basic skills necessary for reading and comprehending Latin. Vocabulary study, derivation of English vocabulary, basic grammatical structures, and simple readings based on Roman and Greek mythology, Roman history, civilization, and culture are emphasized. Students become aware of the impact of Roman civilization upon American government, architecture, and art. The students also do independent projects, additional readings, and research. To earn Honors credit in this course a student must fulfill the criteria as developed for Honors level students.

### LATIN II #341

**LEVEL: 9-10-11-12 HONORS**  
**CREDIT: 1 ONE YEAR**  
**FEE: \$4.00 NATIONAL LATIN TEST FEE**

Prerequisites:

**Freshmen:** Placement test and department placement required.

### Sophomores, Juniors, Seniors:

Minimum grade of 86% in each category of evaluation in Latin I Honors #340; signature of Latin I teacher

NB: It is expected that vocabulary and grammar from the previous language course have been retained so that there is an appropriate foundation for further study.

This course emphasizes second-year grammar, especially the subjunctive mode and its clauses, during the first semester. In addition, selected elements of the Roman culture from the first century B.C. are included. During the second semester the writings of Caesar and Cicero are translated and analyzed. Their political positions are studied. The student does independent projects, additional readings, and research. Students must fulfill the criteria as developed for Honors level students.

### LATIN III #342

**LEVEL: 9-10-11-12 HONORS**  
**CREDIT: 1 ONE YEAR**  
**FEE: \$4.00 NATIONAL LATIN TEST FEE**

Prerequisites:

**Freshmen:** Placement test and department placement required.

### Sophomores, Juniors, Seniors:

Minimum grade of 86% in each category of evaluation in Latin II.

NB: It is expected that general vocabulary and grammar from previous courses have been retained so that there is an appropriate foundation for further study.

This course incorporates the basic skills of reading and translating and examining complex grammar/syntax sentence structures in authentic Latin through primary sources from Horace, Sallust, Cicero, Ovid and Lucretius.

The philosophical, political and religious influences for the late Roman Republic through the beginning of the Augustan Age are also examined.

### LATIN I #343

**LEVEL: 9-10-11-12**  
**CREDIT: 1 ONE YEAR**  
**FEE: \$4.00 NATIONAL LATIN TEST FEE**

Prerequisites:

**Freshmen:** Enrollment in English #111

### Sophomores, Juniors, Seniors:

Minimum grade of 76% in English.

This is an introductory course stressing the basic skills necessary for reading and comprehending Latin. Vocabulary study, derivation of English vocabulary, basic grammatical structures and simple readings based on Roman and Greek mythology, Roman history, civilization, and culture are emphasized. Students become aware of the impact of Roman civilization upon American government, architecture, and art. Students are placed in classes with Latin I Honors students but have a different level of academic requirements.

### LATIN II #344

**LEVEL: 9-10-11-12**  
**CREDIT: 1 ONE YEAR**  
**FEE: \$4.00 NATIONAL LATIN TEST FEE**

Prerequisites:

**Freshmen:** Placement test and department placement required.

### Sophomores, Juniors, Seniors:

Minimum grade of 76% in each category of evaluation in Latin I #345; signature of Latin I teacher.

NB: It is expected that vocabulary and grammar from the previous language course have been retained so that there is an appropriate foundation for further study.

This course emphasizes second-year grammar, especially the subjunctive mode and its clauses, during the first semester. In addition, selected elements of culture from the first century B.C. are included. During the second semester the writings of Caesar and Cicero are translated and analyzed for similarities. Their political positions are studied. Students are placed in class with Latin II Honors students but have a different level of academic requirements.

**LATIN IV #346**

**LEVEL: 10-11-12 HONORS**  
**CREDIT: 1 ONE YEAR**  
**FEE: \$4.00 NATIONAL LATIN TEST FEE**

Prerequisites: Minimum grade of 86% in each category of evaluation in Latin II or III.

NB: It is expected that general vocabulary and grammar from previous courses have been retained so that there is an appropriate foundation for further study.

This course incorporates the basic skills of reading and translating and examining complex grammar/syntax sentence structures in authentic Latin through primary sources from Caesar, Catullus, Cicero, Ovid and Pliny. The philosophical, political and religious influences for the late Roman Republic through the beginning of the Augustan Age are also examined.

**AP VERGIL #347**

**LEVEL: 11-12**  
**ADVANCED PLACEMENT**  
**CREDIT: 1 ONE YEAR**  
**FEE: \$4.00 NATIONAL LATIN TEST FEE**

Prerequisites: Minimum grade of 86% in each category of evaluation in Latin II Honors #341 or Latin II Standard #344 and signature of Latin II teacher.

NB: It is expected that vocabulary and grammar from the previous language course have been retained so that there is an appropriate foundation for further study.

The Vergil course covers the reading and interpretation of Latin poetry through a close analysis of Vergil's Aeneid. Books I, II, IV and VI are read in Latin, and Books III and V in English. The students become aware of the literary value of the epic and of the importance of great human virtues and values as they are depicted in the person of the epic hero. **Students have the option to take the Advanced Placement Test that may lead to college credit.**

**SPANISH I #350**

**LEVEL: 9-10-11-12 HONORS**  
**CREDIT: 1 ONE YEAR**  
**FEE: \$7.00 NATIONAL SPANISH EXAM FEE**

Prerequisites:

**Freshmen:** Above average grades in elementary school. Department placement required.

**Sophomores, Juniors, Seniors:** Minimum grade of 86% in English and signature of current English teacher. All enrollments require signature of the department chair. This course requires no prior knowledge of Spanish.

This course is conducted heavily in Spanish and concentrates on promoting linguistic ability by learning vocabulary and Spanish language structures. Emphasis is placed on culture, accurate pronunciation, vocabulary development of approximately 1300 items, and on correct grammar. Furthermore, this course promotes verbal and non-verbal communication skills when using the language in situational contexts.

This course stresses vocabulary retention and application of grammar and structural forms.

**SPANISH II #351**

**LEVEL: 9-10-11-12 HONORS**  
**CREDIT: 1 ONE YEAR**  
**FEE: \$7.00 NATIONAL SPANISH EXAM FEE**

Prerequisites:

**Freshmen:** Placement test and department placement required.

**Sophomores, Juniors, Seniors:** Minimum grade of 86% in each category of evaluation in Spanish I Honors #350 and signature of previous Spanish teacher. Department chair signature required if not currently enrolled in Spanish.

NB: It is expected that vocabulary and grammar from the previous language course have been retained so that there is an appropriate foundation for further study.

This course is conducted in Spanish and concentrates on promoting more complex linguistic ability by learning a wide selection of vocabulary and applying progressively intricate language structures. The emphasis is on correct grammar, vocabulary development, and accurate pronunciation. It promotes verbal and non-verbal communication skills while using language in situational contexts. Writing skills are

broadened. Students compare and contrast their culture with that of the Spanish-speaking people of the world.

**SPANISH III #352**

**LEVEL: 9-10-11-12 HONORS**  
**CREDIT: 1 ONE YEAR**  
**FEE: \$7.00 NATIONAL SPANISH EXAM FEE**

Prerequisites:

**Freshmen:** Placement test and department placement required.

**Sophomores, Juniors, Seniors:** Minimum grade of 86% in each category of evaluation in Spanish II Honors #351 and signature of previous Spanish teacher.

Department chair signature required if not currently enrolled in Spanish.

NB: It is expected that vocabulary and grammar from the previous language course have been retained so that there is an appropriate foundation for further study.

This course is conducted in Spanish and incorporates the four balanced-skills approach of the earlier levels: listening, speaking, reading, and writing. Vocabulary and grammar from earlier levels are reviewed, refined, and expanded.

Emphasis is placed on broadening and enhancing conversation, grammar, reading, and composition skills. The students read materials based on a selection of current periodicals, portions of classic literature, and cultural readings. Students become familiar with the differences between their culture and that of the Spanish-speaking world.

**SPANISH I #354**

**LEVEL: 9-10**  
**CREDIT: 1 ONE YEAR**

Prerequisites:

**Freshmen:** Enrollment in English #112. Placement test may be required.

All enrollments require signature of the department chair.

This course provides the students with an introduction to the Spanish language. It promotes verbal and nonverbal communication skills and the use of the language in familiar settings. The students learn about cultural differences and they learn to be more tolerant and respectful of other people's views. Note taking, listening, speaking, reading, and writing skills are developed in the Spanish language. Emphasis is on conversational vocabulary and correct pronunciation. Simple grammatical structures are introduced. This course will be taught at a slower pace and will be geared towards students that struggle in language acquisition. Students will be given more opportunities to practice and learn "at their own pace".

**SPANISH I #355**

**LEVEL: 9-10-11-12**  
**CREDIT: 1 ONE YEAR**

Prerequisites:

**Freshmen:** Enrollment in English #111. Placement test may be required.

All enrollments require signature of the department chair.

This course provides the students with an introduction to the Spanish language. It promotes verbal and nonverbal communication skills and

the use of the language in familiar settings. The students learn about cultural differences and they learn to be more tolerant and respectful of other people's views. Note taking, listening, speaking, reading, and writing skills are developed in the Spanish language. Emphasis is on conversational vocabulary and correct pronunciation. Simple grammatical structures are introduced.

**SPANISH II #356**

**LEVEL: 9-10-11-12**  
**CREDIT: 1 ONE YEAR**

Prerequisites:

**Freshmen:** Placement test and department placement required.

**Sophomores, Juniors, Seniors:** Minimum grade of 76% in each category of evaluation in Spanish I #355 and signature of previous Spanish teacher.

Department chair signature required if not currently enrolled in Spanish.

NB: It is expected that vocabulary and grammar from the previous language course have been retained so that there is an appropriate foundation for further study.

This course is conducted heavily in Spanish. The beginning of this course is based on intense review from the previous year. This course develops and expands the vocabulary, grammar, and pronunciation learned in Spanish I #355. Additions of approximately 700 vocabulary items are introduced. Basic skills continue to be stressed.

Students learn to take notes, to exchange information, and maintain simple conversations in Spanish. Students read and comprehend short reading selections and improve basic writing skills. Cultural comparisons enable the students to appreciate and

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understand the uniqueness of other cultures as well as their own.

### SPANISH III #357

**LEVEL: 9-10-11-12**  
**CREDIT: 1 ONE YEAR**

Prerequisites:

**Freshmen:** Placement test and department placement required.

**Sophomores, Juniors, Seniors:**

Minimum grade of 76% in each category of evaluation in Spanish II #356 and signature of previous Spanish teacher. Department chair signature required if not currently enrolled in Spanish.

NB: It is expected that vocabulary and grammar from the previous language course have been retained so that there is an appropriate foundation for further study.

This course is conducted in Spanish and concentrates on promoting more complex linguistic ability by learning a wide selection of vocabulary and applying progressively intricate language structures.

The emphasis is on correct grammar, vocabulary development, and accurate pronunciation.

It promotes verbal and non-verbal communication skills while using language in situational contexts. Writing skills are broadened. Students compare and contrast their culture with that of the Spanish-speaking people of the world.

### SPANISH IV #358

**LEVEL: 10-11-12 HONORS**  
**CREDIT: 1 ONE YEAR**  
**FEE: \$7.00 NATIONAL SPANISH EXAM FEE**

Prerequisites: Minimum grade of 86% in each category of evaluation in Spanish III #357 or Spanish III Honors #352, and signature of previous Spanish teacher.

NB: It is expected that vocabulary and grammar from the previous language course have been retained so that there is an appropriate foundation for further study.

This course is conducted in Spanish and incorporates the four balanced-skills approach of the earlier levels: listening, speaking, reading, and writing. Vocabulary and grammar from earlier levels are reviewed, refined, and expanded.

Emphasis is placed on broadening and enhancing conversation, grammar, reading, and composition skills. Students read materials based on a selection of current periodicals, portions of classic literature, and cultural readings. Students become familiar with the differences between their culture and that of the Spanish-speaking world.

### AP SPANISH LANGUAGE #359

**LEVEL: 11-12**  
**ADVANCED PLACEMENT**  
**CREDIT: 1 ONE YEAR**

Prerequisites:

**Juniors:** Minimum grade of 86% in each category of evaluation in Spanish IV Honors #358 and signature of previous Spanish teacher.

**Seniors:** Minimum grade of 86% in each category of evaluation in Spanish III Honors #352 or Spanish IV Honors #358 and signature of previous Spanish teacher.

NB: It is expected that vocabulary and grammar from the previous language course have been retained so that there is an appropriate foundation for further study.

This course is conducted in Spanish. Previous vocabulary and grammar are reviewed, refined, and expanded. The course acquaints the student with literature featuring various literary and cultural themes.

The students become aware of the differences in culture between the Spanish-speaking world and the English-speaking world. Short stories, excerpts from novels and plays, and articles from periodicals offer an opportunity for the student to read with understanding and to gain deeper insights into the nature and structure of the Spanish language. Reading, writing, and speaking in Spanish are very important aspects of this course. Students are prepared for the AP Spanish Language examination.

**FRESHMAN PHYSICS H #410**

**LEVEL: 9 HONORS**  
**CREDIT: 1 ONE YEAR**

Prerequisite: Concurrent enrollment in Advanced Algebra Honors #210 or Algebra I Honors #220

This course is designed to provide information on the fundamental concepts of physics. This inquiry-based course covers unifying principles such as: mechanics, properties of matter, heat, sound, light, electricity and magnetism. Emphasis is placed on understanding conceptual physics while strengthening scientific skills and mathematical application. Students examine and analyze physics through application of honors level algebra. This course is for the honors math student aiming toward Chemistry Honors→Honors Biology. This sequence will also allow students the background and opportunity for upper level AP sciences. The Physics First Honors course is excellent preparation for college entrance exams.

**FRESHMAN PHYSICS #411**

**LEVEL: 9**  
**CREDIT: 1 ONE YEAR**  
**LAB FEE: \$60.00**

Prerequisite: Concurrent enrollment in Algebra I #222 or Algebra I #224

Physics is fundamental to all other sciences. This conceptually based laboratory course in physics is for the student concurrently taking regular level Algebra. This course will allow the student to investigate topics such as: force, motion, energy, electricity, magnetism, waves, sound and light. The emphasis of this course will be to expose the student to the principles underlying the physics of everyday phenomena. Physics First is excellent preparation for Chemistry, Biology and college entrance exams.

**CHEMISTRY H #415**

**LEVEL: 10 HONORS**  
**CREDIT: 1 ONE YEAR**

Prerequisites: Completion of Freshman Physics #410; and minimum grade of 86% in Honors Algebra I #220; and signature of current Science teacher

This is a laboratory course designed for students needing a thorough background for further work in science. Course topics include measurement, atomic theory and structure, matter and energy, gas laws, bonding, solutions, acids, bases, pH, redox reactions, nuclear chemistry, organic chemistry, and methods of analysis.

**CHEMISTRY #416**

**LEVEL: 10**  
**CREDIT: 1 ONE YEAR**  
**BOOK FEE: \$60.00**

Prerequisites: Completion of Physics #411; and signature of current Science teacher

This course is offered for college bound students developing science skills and practical life applications of Chemistry. Topics include matter and energy, types of chemicals and their reactions, atomic theory and structure, solutions, acids and bases, pH, chemical equations, oxidation-reduction, bonding, nuclear chemistry, and biochemistry. This course will aim to build upon the students' science skills and knowledge from physics while preparing students with the foundation for the upperclassmen biology course.

**BIOLOGY H #420**

**LEVEL: 11 HONORS**  
**CREDIT: 1 ONE YEAR**

Prerequisites: PLAN score of 21 or above in READING test; and successful completion of Sophomore Chemistry and Freshman Physics; and minimum of 86% achievement in Honors English; and signature of current Science teacher

This inquiry-based course covers six unifying principles: organization, interdependence, continuity, change development, and equilibrium. Biological concepts will include macromolecules, cells, energy, human body, genetics, biotechnology, classification, evolution, and ecology. Due to the extensive vocabulary required in this course, it is essential that students have advanced skills in reading comprehension, writing, spelling, and rapid memorization. Students will be expected to continually draw upon newly acquired foundational knowledge to analyze, synthesize, and evaluate biological issues.

**BIOLOGY #421**

**LEVEL: 11**  
**CREDIT: 1 ONE YEAR**

Prerequisites: Completion of Sophomore Chemistry and Freshman Physics; and signature of current Science teacher

This course is an introduction to the fundamental concepts of living organisms. The course will build upon the foundation of science knowledge and skills students have attained in Physics and Chemistry.

In this course, students will examine and analyze biological problems that surface in today's society. Biological topics will include cells, transport, energy, genetics, evolution, classification, and ecology. Emphasis

will be placed upon independence of structure and function.

**ANATOMY AND PHYSIOLOGY #422**

**LEVEL: 12 HONORS**  
**CREDIT: 1 ONE YEAR**  
**LAB FEE: \$30.00**

Prerequisites: Minimum of 86% average in Biology #421 or minimum of 76% average in Biology #420; and minimum of 86% average in Chemistry #431; and signature of current Science teacher

This laboratory course is offered for students who have an interest in a health field career and/or who want to increase their understanding of the human body. It includes a detailed study of the structure and function of the organ systems of the human body. The emphasis in this course focuses on the normal human condition. Because of the large number of anatomical terms, students are required to memorize quickly and spell well.

**ASTRONOMY - FALL #423**

**LEVEL: 10-11-12**  
**CREDIT: .5 ONE SEMESTER**  
**(OFFERED FALL 2011)**

Prerequisite: Completion of one year of Science and completion or concurrent enrollment in Chemistry; and signature of Science teacher

This course explores the inner solar system into deep space. With a hands-on approach, students will investigate the constellations, sun, moon, and planets of our solar system. Students will become familiar with different types of telescopes during both the day and evening observations.

**ASTRONOMY - SPRING #424**

**LEVEL: 10-11-12**  
**CREDIT: .5 ONE SEMESTER**  
**(OFFERED SPRING 2012)**

Prerequisite: Completion of one year of Science and completion or concurrent enrollment in Chemistry; and signature of Science teacher

This course explores outside our solar system into deep space. With a hands-on approach, students will investigate stars, deep space objects such as planetary nebulae and the formation of the universe.

Students will become familiar with different types of telescopes during both day and evening observations. It may be taken independently of Fall Astronomy or in conjunction with Fall Astronomy to complete a full year of Astronomy.

**BOTANY #425**

**LEVEL: 12**  
**CREDIT: .5 ONE SEMESTER**  
**(OFFERED 2012-2013)**

Prerequisites: Minimum of 76% in Biology #421; and signature of Science teacher

In this laboratory course, students study plant structure and function along with the origin and development of the basic plant structures: roots, stems, leaves, and flowers. The students analyze green plants and their importance as a group of living organisms. Why flowers bloom at certain times of the year, how plants survive in harsh environments, and the economic values of plants are some of the topics covered in this course.

**ENVIRONMENTAL SCIENCE #426**

**LEVEL: 10-11-12**  
**CREDIT: .5 ONE SEMESTER**  
**(OFFERED 2012-2013)**

Prerequisites: Completion of one year of Science; and signature of Science teacher

Environmental Science is a laboratory science course involving the scientific impact of conditions on the earth's environment. The course provides background for making balanced judgments on environmental issues and helps prepare students to heed the Church's call for justice and responsible stewardship of Earth's resources.

**ZOOLOGY #427**

**LEVEL: 10-11-12**  
**CREDIT: 1 ONE YEAR**  
**LAB FEE: \$30.00**

Prerequisite: Completion of one year of Science; and signature of Science teacher

This course provides the student with an opportunity to acquire an advanced-level knowledge of animal life. Emphasis is on the comparative approach and involves extensive dissection of representative animal species. Use of the classification system to gain understanding of similarities and differences in organisms is required. An analysis of the importance of genetics and ecological pressure shaping environmental fitness and survival is emphasized.

**GEOSCIENCE #428**

**LEVEL: 10-11-12**  
**CREDIT: .5 ONE SEMESTER**  
**(OFFERED 2012-2013)**

Prerequisites: Completion of one year of Science; and signature of current Science teacher needed

This course provides the student with an opportunity to explore earth processes. Topics for study include earth materials, shaping and changing land, oceanography, earth history, and atmosphere.

**CHEMISTRY #431**

**LEVEL: 12**  
**CREDIT: 1 ONE YEAR**

Prerequisites: Minimum of 76% average in Biology; minimum of 76% average in Physical Science; and signature of current Science teacher

This course is offered for students who are college bound but who are not choosing Science as their major. This is a laboratory course designed for those interested not only in the principles involved, but also in how chemistry affects their daily lives. Topics include concepts of matter and energy, types of chemicals and their reactions, atomic theory and structure, solutions, acids and bases, oxidation-reduction, pH, nuclear chemistry, and organic chemistry.

**PHYSICS II #437**

**LEVEL: 10-11-12**  
**CREDIT: 1 ONE YEAR**

Prerequisites: Completion of Physics; and completion or concurrent enrollment in Algebra #210, #240, #241; and signature of Physics teacher. Those who have taken or are currently enrolled in AP Physics #465 would not be allowed to enroll in this class

This course will allow students to build upon their foundation from the first Physics class while expanding their use of mathematical applications, experimentation, and higher level thinking skills. Physics topics will focus upon electricity, magnetism, and modern physics. Students in this course will strengthen their study and science skills, working toward Math and Science literacy.

**AP CHEMISTRY #440**

**LEVEL: 11-12**  
**ADVANCED PLACEMENT**  
**CREDIT: 1 ONE YEAR**

Prerequisites: Completion of Algebra II #241; and minimum of 86% average in Chemistry Honors #430; and signature of chemistry teacher

This is an advanced, college-level course elected by students who wish a second year of chemistry. Course content includes stoichiometry, atomic theory, solids, liquids and gases, thermochemistry, solutions, chemical bonding, chemical reactions, chemical equilibrium and reaction kinetics. This course includes a heavy laboratory emphasis. This course is designed to prepare students for the Advanced Placement test.

**AP BIOLOGY #450**

**LEVEL: 12**  
**ADVANCED PLACEMENT**  
**CREDIT: 1 ONE YEAR**

Prerequisites: Minimum of 86% average in both Biology #421 and Honors Chemistry #430; and signature of Biology and Chemistry teachers. Completion or concurrent enrollment in Biotechnology is strongly recommended.

This is an advanced, college-level course elected by students who wish a second year of Biology. Course content includes the structure and function of cells, biochemistry, genetics, evolution, classification,

structure and physiology of plants, animals and microorganisms, ecology and behavior. This course is designed to prepare students for the Advanced Placement test.

**UPPERCLASSMEN PHYSICS HONORS #460**

**LEVEL: 12 HONORS**  
**CREDIT: 1 ONE YEAR**

Prerequisites: Minimum of 76% average in Chemistry Honors #430 or minimum of 93% in Chemistry #431; and completion or concurrent enrollment in Algebra II Honors #240 or higher; and signature of Chemistry teacher; and signature of current Math teacher

This is a laboratory class intended for students in honors level mathematics. This course is a survey of physics, including topics such as mechanics, waves, sound, light, elementary atomic and nuclear physics, electricity and magnetism. Problem solving and applications of honors level mathematics will be stressed.

**UPPERCLASSMEN PHYSICS #461**

**LEVEL: 12**  
**CREDIT: 1 ONE YEAR**

Prerequisites: Minimum of 76% average in Chemistry #431; and completion or concurrent enrollment in Algebra II #241 or higher; and signature of Chemistry teacher; and signature of current Math teacher

This course surveys the range of general physics. Topics will include Newtonian mechanics, thermodynamics, wave properties, sound, light, electrostatics, and electricity and magnetism. Students will also learn problem solving and math skills as they apply to physics.

**AP PHYSICS #465****LEVEL: 11-12****ADVANCED PLACEMENT****CREDIT: 1 ONE YEAR**

Prerequisites: Minimum of 86% average in Chemistry Honors #430; and minimum of 86% average in Algebra II Honors #240 or concurrent enrollment in Pre-Calculus/Trig #250; and signature of Chemistry teacher; and signature of current Math teacher

This is a physics laboratory class intended for students interested in majoring in Engineering, Science or Mathematics. Students interested in applications of honors level mathematics to Science will also benefit. Topics include mechanics, waves, sound, light, electricity, thermodynamics, nuclear physics and magnetism. Problem solving will be stressed. This course is designed to prepare students for the Advanced Placement test.

**BIOTECHNOLOGY #466****LEVEL: 11-12 HONORS****CREDIT: .5 ONE SEMESTER****LAB FEE: \$30.00**

Prerequisites: Minimum of 86% average in Chemistry #431 or completion of Chemistry #430; and completion or concurrent enrollment in Biology #420; and signature of current Science teacher

This course is designed to introduce students to areas and concepts involved in Biotechnology. It will focus on DNA, DNA technology, gene therapy, the Human Genome Project, forensics, genetically modified organisms, stem cells, cloning, fundamental and ethical issues of Biotechnology. The potential benefits and negative consequences of biotechnology applications to the lives of humans and other animals, plants and to the environment will be explored. In addition, students will learn to apply scientific methods of

study and concepts through research and hands-on experiments.

**SCIENCE RESEARCH #467****LEVEL: 11-12****CREDIT: 1 ONE YEAR****LAB FEE: \$30.00**

Prerequisites: Completion of two years of Science and two years of Mathematics; and signature of Science teacher needed

The primary goal of this yearlong Science research class is for students to experience what Science is and how Science works by engaging in real-life inquiry problem solving. Each student will develop his/her own research question, conduct research, collect data and publish the results. Students will be paired with mentor scientists to collaborate on their research projects. At the end of the year, students will present both oral and written presentations of the findings. The class will publish an Independent Research Journal with all the research papers.

**AP WORLD HISTORY #505**

**LEVEL: 10-12**  
**ADVANCED PLACEMENT**  
**CREDIT: 1 ONE YEAR**

Prerequisites:

**Sophomores:** 92% average in English I Honors #110 and signature of English teacher

**Seniors:** 80% average or better in Advance Placement U.S. History #520; 92% average in Honors U.S. History #530 and signature of U.S. History teacher.

This course studies our world's history from the dawn of civilization to the present. The course introduces overarching world historical themes such as: impact of societal interactions; change and continuity across world history periods; impact of technology and demography; social, political, and economic structures; cultural and intellectual developments; and interactions with our environment. These themes address historical thinking and skills (constructing and evaluating arguments; using primary documents and data; assessing change and continuity over time; comparison within and among societies; and handling diversity of interpretations). This is a reading and writing intensive, college level course and is designed to prepare students for the Advanced Placement Test that students are required to take. Requiring significant individual effort, the course will move quickly and appeal to the self-motivated learner. A summer reading and writing assignment may be required.

**WORLD HISTORY #510**

**LEVEL: 9-10 HONORS**  
**CREDIT: 1 ONE YEAR**

Prerequisites:

**Freshmen:** Above average grades in elementary school

**Sophomores:** 85% average or above in English I Honors #110 and signature of teacher; 92% average in English I #111 and signature of teacher.

This course is for the above-average student. This course surveys the history of the world up to the year c.1945. Some general concepts that may be studied are the development of governments, laws, economic systems, and revolutions. The interpretation of history, its application to the world, and the analysis of the connections between past, present, and future are among the cognitive skills taught. Emphasis is placed on the study skills of independent reading, critical thinking, note-taking, and interpretive writing.

**WORLD HISTORY #511**

**LEVEL: 9-10**  
**CREDIT: 1 ONE YEAR**

Prerequisites: NONE

This course surveys a variety of topics spanning the history of the world up to the year c.1945. The course is a general survey of Western and Eastern civilizations. Additional projects in current events, geography, and reading may be required. Emphasis is placed on the methods used in solving past historical problems and possible solutions of current world problems.

**GEOGRAPHY #515**

**LEVEL: 10-11-12**  
**CREDIT: .5 ONE SEMESTER**

Prerequisite: World History #505, #510 or #511 or concurrent enrollment in World History #505

This course centers on the study of world geography. It includes a study of the student's physical world as well as the cultural aspects of the continents, focusing on North America. The student examines, researches, and creates projects on areas of the world describing climate and economic and social structures. Using charts, maps, and globes, the student acquires knowledge of the continents, oceans, islands, and major nations of the world. The student compares and contrasts the different lifestyles found in countries, as influenced by the geography of the area. The student evaluates challenging problems in the world using the basics of geography. Thus, the student acquires a global perspective on problems such as hunger, pollution, diseases, political alliances, and military conflicts.

**20TH CENTURY WORLD (1945-present) #516**

**LEVEL: 10-11-12**  
**CREDIT: .5 ONE SEMESTER**

Prerequisite: World History #505, #510 or #511

This course introduces students to the basic themes, theories and problems in the twentieth and twenty-first century worlds. Using the knowledge and insight gained in World History class, students will continue to apply historical analysis and inquiry skills to the major events of this century. The goal is to give students the historical understanding and perspective necessary for effective leadership and citizenship in the future.

This course concentrates heavily on reading from multiple sources, analyzing, writing, and discussion. It focuses on the events, providing students with historical background and the conceptual tools for understanding those events. The course is designed to highlight the major events from the colonial period to the present day, and the interconnectedness of these events. Students will be asked to read, analyze, interpret, discuss, and write, from a variety of sources. Major concepts include imperialism, nationalism, political revolution, global conflict, and peace building.

**THE HOLOCAUST AND GENOCIDE IN THE MODERN WORLD #518**

**LEVEL: 10-11-12**  
**CREDIT: .5 ONE SEMESTER**

Prerequisite: 75% average or above in any level World History class

This class is designed for the history student who would like to probe a narrower topic in greater depth than the traditional survey course. This class will define genocide, drawing primarily on examples from the 20<sup>th</sup> century. Students will then focus on the rise of Nazism and the staging of the Holocaust, including the roots in earlier anti-Semitism. The responses to and results of the Holocaust in the second half of the 20<sup>th</sup> century will also be examined with the goal of ultimately looking at contemporary issues of genocide on a world-wide basis and responses to them.

Students will engage in reflective thinking and will be expected to participate in discussion and sharing of ideas. In addition to reading from various documents and writing, students may be expected to engage in various research projects during the term.

**CHICAGO HISTORY & CULTURE #519**

**LEVEL: 10-11-12**  
**CREDIT: .5 ONE SEMESTER**

Prerequisite: NONE

This course is a survey of the geography, history and culture of the city of Chicago.

Since the city of Chicago has always had and will continue to have an impact on the suburbs, it will give students a chance to see how important Chicago is in the development of the metropolitan area, the state of Illinois, the Midwest, the nation and the global economy. Resources used in this class will include various websites, current news articles, selected readings, interviews, photographs, videos, primary sources, virtual field trips and a class trip to Chicago. Students will learn about the people, places and events that shaped the city: early settlers; immigrants; politicians; religious leaders; business and labor leaders; educators; entertainers; athletes; artists; architects; historic buildings; the lakefront; transportations centers; disasters; major crimes; social movements. Students will focus on the importance of civic values in the local community. There will be a significant emphasis on the value of diversity and cooperation. The role of the Catholic Church in the development of the city of Chicago will also be explored. This course is inter-disciplinary in approach.

Students will explain the concept/process of urbanization using Chicago as a model. They will demonstrate the interaction of geographic, socio-cultural, political and economic forces. This course will help the students develop their critical and creative thinkings skills, oral and written communication skills, time management and problem solving skills.

**AP U.S. HISTORY #520**

**LEVEL: 11 ADVANCED PLACEMENT**  
**CREDIT: 1 ONE YEAR**

Prerequisite: 76% average or above in AP World History #505 and signature of teacher; 92% average in World History Honors #510 and signature of teacher

This course is designed to provide the student with the factual knowledge, writing skills and analytical processes to effectively understand American History and successfully prepare for and pass the Advanced Placement exam.

This course, taught at an introductory college level, is reading, writing and discussion intensive and will challenge even exceptional students. Readings include, but are not limited to, the text, alternate historical interpretations, primary documents and materials, historical novels and current events articles.

The student will develop skills necessary for writing historical essays and documents based questions required for the college board exam. The course challenges students to seek cause and effect relationships, examine connections between American History and the present world and to analyze primary and secondary historical sources. Students are required to take the Advanced Placement Test in the spring. This course moves at an extremely fast pace, requires extensive work outside of class and will appeal to the self-motivated learner.

**U.S. HISTORY #530**

**LEVEL: 11 HONORS**  
**CREDIT: 1 ONE YEAR**

Prerequisite: Minimum of 76% average or above in AP World History #505 or Honors World History #510 and signature of teacher; or 92% average or above in World History #511 and signature of teacher

This reading and writing intensive course surveys the history of the United States from its colonial foundation through the 20<sup>th</sup> century. The foreign and domestic policies of several presidential administrations are identified and critically examined.

The contributions of Native Americans and immigrant groups in creating the American culture are discussed. The student emphasizes techniques of research and writing. Emphasis is placed on discussion skills in both large and small groups. Listening and note-taking skills are developed daily through lecture and homework assignments. The student analyzes the causes and effects of significant events in the history of the United States and constructs solutions through the evaluation of historical evidence.

**U.S. HISTORY #533**

**LEVEL: 11**  
**CREDIT: 1 ONE YEAR**

Prerequisite: World History #505, #510 or #511

This course is designed to introduce the student to important events, people, and places that have helped develop the America of today. Political, economic, and philosophical differences, which have helped form U.S. government and society, are emphasized. Students demonstrate their ability to formulate cause and effect relationships, compare and contrast different opinions and trends, and

draw conclusions from the text and other sources.

**AP U.S. GOVERNMENT #535**

**LEVEL: 12 ADVANCED PLACEMENT**  
**CREDIT: .5 ONE SEMESTER**

Prerequisites: Minimum of a 76% average in AP U.S. History #520 and signature of teacher; or minimum of an 86% average in Honors U.S. History #530 and signature of teacher

This is an advanced, one semester, college level course designed for students interested in a more comprehensive study of the U.S. system of government. A college level textbook is used and the assignments and exams are more challenging than the Honors level course. Students are also expected to be more self-directed.

Topics covered in this course include the philosophical foundations of U.S. constitutional government; basic principles of U.S. government; political culture (beliefs and behaviors); political participation (political parties, interest groups, and the media); institutions of government (legislative, executive, judicial branches, the bureaucracy); civil rights and civil liberties; and school requirements. In preparation for the Advanced Placement exam, students will analyze primary source material, write critical essays, carefully follow current events, interpret political data, and conduct research on contemporary political issues. Students are expected to take the AP Exam.

**U.S. GOVERNMENT #540**

**LEVEL: 12 HONORS**  
**CREDIT: .5 ONE SEMESTER**

Prerequisite: At least one semester of Honors U.S. History #530 or Advanced Placement U.S. History #520 and signature of U.S. History teacher

This course is a one semester course that is designated to provide the student with an overview of the structure and function of the U.S. political system.

Basic concepts of the course include: philosophical foundations of the U.S. system of government; the federal system; the U.S. Constitution; the structure and function of the legislative, executive, and judicial branches of government; state and local government; the Illinois Constitution; political parties and the electoral process; rights and responsibilities of citizens; the role of the U.S. in the international community. Because this is an honors level course, students are expected to relate primary source readings to contemporary political issues and events. This course covers more information at a deeper and more thorough level than the regular U.S. Government course does. This course provides a strong background in government for the college bound students, especially those planning to major in one of the social studies. The Federal and State Constitution exams are taken during this course.

## SOCIAL STUDIES DEPARTMENT

### **U.S. GOVERNMENT #541**

**LEVEL: 11 (sem 2)-12**

**CREDIT: .5 ONE SEMESTER**

Prerequisite: At least one semester of U.S. History #533

This course examines the political system of the United States, the key concepts of the democratic process, and the elements of responsible citizenship. The units of study include historical roots of the U.S. system of government; civil rights and civil liberties; the legislative process; the president and the executive branch; the federal courts; state and local government; citizenship and immigration. The students will study both the U.S. and Illinois constitutions. The federal and state constitution exams will be taken during this course.

### **PSYCHOLOGY FOR LIFE #545**

**LEVEL: 11-12**

**CREDIT: .5 ONE SEMESTER**

Prerequisite: World History #505, #510 or #511

Why do we behave the way we do? What causes depression? How do people communicate differently? How do we develop? This course is an introductory course that places special emphasis on the area of Social Psychology. Students will cover topics that include: child development, adolescent behavior, old age and dying, motivation, emotion, attitudes and how they influence our beliefs, personality theories, mental health and mental illness, therapies as well as the influential studies in Social Psychology. Students in Psychology for Life will gain an insight into self-understanding as well as other people's behavior. After completing the course, students will acquire the practical knowledge that can be used

to understand, predict and control human behavior.

### **AP PSYCHOLOGY #546**

**LEVEL: 12 ADVANCED PLACEMENT**

**CREDIT: 1 ONE YEAR**

Prerequisite: 76% average or better in Advanced Placement U.S. History #520 and signature of teacher; 92% average in Honors U.S. History #530 and signature of teacher.

This AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their Science and practice.

At the completion of this course, students will find themselves asking more questions and having fewer answers. In addition to having a greater appreciation for their own human experience, students will begin to think more critically, demand more evidence, and keep an open mind to research that runs counter to their own beliefs and intuition! Students completing this course will have the opportunity to take the Advanced Placement Psychology Exam, earn 3 college credits, and advanced standing at their post-secondary institution.

### **SOCIOLOGY #547**

**LEVEL: 11-12**

**CREDIT: .5 ONE SEMESTER**

Prerequisite: World History #505, #510 or #511

This course examines the principles and social structures of various cultures. The course focuses on developing the students' ability to analyze human similarities and differences. Students read primary and secondary source material as well as examine data in graph and table form in order to apply sociological concepts to problems and everyday activities.

An emphasis is placed on lecture and discussion in large and small groups. The students are also required to research topics dealing with themes in sociology. They identify social and moral issues, examine different cultures, and develop a cultural awareness.

**AP EUROPEAN HISTORY  
#550****LEVEL: 12 ADVANCED PLACEMENT  
CREDIT: 1 ONE YEAR**

Prerequisite: 80% average or better in Advanced Placement U.S. History #520 and signature of teacher; 92% average in Honors U.S. History #530 and signature of teacher

This course presents students with an in-depth study of the political, economic, religious, intellectual, and social themes in European history from the Renaissance to the twentieth century.

The course is designed to develop students' knowledge of factual material, as well as their analytical thinking abilities and organization and writing skills. The course is constructed to address the themes and concepts of European history at the introductory college level. Students are required to complete readings from the text, excerpts from related books, historical documents, and selected essays. Students develop their writing skills through analytical essays of interpretation, comparison, and criticism.

This course is designed to prepare students for the Advanced Placement test and all students are expected to take the national exam. Students complete a major research paper, responses to articles and historical documents, as well as essays and oral presentations. This course challenges students to examine important facets of European history through the use of primary and secondary sources. A summer reading list may be completed.

**ECONOMICS #555****LEVEL: 10-11-12  
CREDIT: .5 ONE SEMESTER**

Prerequisites: NONE

This social Science course introduces the student to the market system of the United States. Economics introduces the student to Micro and Macro Economics. This class also provides students with a practical business experience through the organization, production, and operation of a business enterprise.

*Students in this course gain insights into the complexities of consumerism, business management, government regulation, money management, insurance, finance, and taxes.*

## BUSINESS EDUCATION DEPARTMENT

### ACCOUNTING I #721

**LEVEL: 10-11-12**  
**CREDIT: 1 ONE YEAR**  
**LAB FEE: \$45.00**

Prerequisites: NONE

Accounting is the language of business. This class will prepare students who are thinking of pursuing a business career in college. This course will provide complete coverage of the three types of business--proprietorship, partnership, and corporation. Each type of business is presented in a complete accounting cycle covering analyzing transactions, journalizing, posting, petty cash, financial statements, and adjusting and closing entries. Accounting concepts are developed as students learn and understand the terminology used in accounting and business. Students will be using Automated Accounting and Excel software in this class.

### ACCOUNTING II #722

**LEVEL: 11-12 HONORS**  
**CREDIT: 1 ONE YEAR**  
**LAB FEE: \$45.00**

Prerequisite: Minimum grade of 86% in Accounting I #721 and signature of Accounting teacher.

This course provides an in-depth study of accounting methods for a sole proprietorship, partnership, and corporation. The accounting methods of budgeting, managerial decision-making, and formal financial statement analysis are introduced to the students. In addition, students are required to complete a computerized simulation set using Automated Accounting and Excel software.

### INTRODUCTION TO BUSINESS #725

**LEVEL: 9-10**  
**CREDIT: .5 ONE SEMESTER**

Prerequisites: NONE

This introductory level business course is specifically for freshmen and sophomore students and aims at exploring fundamental business concepts. Topics discussed include accounting, economics, marketing, finance, management, entrepreneurship, and the impact of globalization. Students will encounter a scenario-based class that has an emphasis on solving real-world problems that are encountered in the fast paced world of business.

### BUSINESS LAW #731

**LEVEL: 11-12**  
**CREDIT: .5 ONE SEMESTER**

**This course will be offered every other year. This course will NOT be available 2011-12 but will be offered 2012-2013.**

Prerequisites: NONE

This course is a behavior science that integrates two comprehensive and important fields of study, Business and Law. Junior and Senior students are introduced to the nature of law and the evolutionary path that today's law has taken. The use of contracts in business is analyzed, as well as how contracts are used to protect American businesses and citizens. There is a strong emphasis on business ethics and cyberlaw using a case study format.

### FINANCE #734

**LEVEL: 11-12**  
**CREDIT: .5 ONE SEMESTER**

Prerequisites: NONE

This higher level finance course is geared toward juniors and seniors as the course will discuss and analyze money management relationships in personal, business and economic environments. Students will gain the knowledge to make wise economic decisions that will benefit both their personal and professional life. Major area of study include, personal budgeting, banking, the use of credit, renting and buying homes, consumer awareness, business ownership, financing businesses and financial accounting.

### MARKETING #736

**LEVEL: 10-11-12**  
**CREDIT: .5 ONE SEMESTER**

Prerequisites: NONE

This course provides an excellent insight into the world of marketing. Areas of study will focus on topics such as promotion, pricing, purchasing, visual merchandising, market research and product planning. The course will also gear the research into international marketing, web marketing and the ethics surrounding this field of study.

The aim of the course is to get a taste of the exciting world of marketing and investigate how goods and services are developed and promoted in the marketplace. Students will work on project based tasks with many being real life situations, and allowing the students to bring out the creative flair in this dynamic, challenging and essential area of the business world.

**WEB DESIGN #753**

**LEVEL: 9-10-11-12**  
**CREDIT: .5 ONE SEMESTER**  
**LAB FEE: \$45.00**

Prerequisites: NONE

This course will introduce the student to the design concepts and the various languages and tools used for web page construction and design. In this project based course, students will use design techniques, artwork, photos, roll-over images, animations, background images, sounds and video to create dynamic and interactive web sites. Students will learn HTML (the universal language of the Web) and advanced CSS formatting techniques using Adobe Dreamweaver and Adobe Flash. The students will also render pictures for use on their pages using Adobe Photoshop. Students will be exposed to the use of digital cameras, scanners, animation software and sound files to enhance their sites.

**MICROSOFT APPLICATIONS #754**

**LEVEL: 9-10-11-12**  
**CREDIT: .5 ONE SEMESTER**  
**LAB FEE: \$45.00**

Students acquire extensive skills and knowledge in the Microsoft Office Suite with the use of Word, Excel, and Power Point. Students will also be exposed to the basic concepts of Publisher. The basics of Windows Operating Systems are discussed with emphasis placed on file management and vocabulary. Students develop Internet searching skills with an emphasis on Internet safety, ethics, and cyber bullying. Students will investigate current media technologies.

**ADOBE IN DESIGN CS3 #756**

**LEVEL: 9-10-11-12**  
**CREDIT: .5 ONE SEMESTER**  
**LAB FEE: \$45.00**

Prerequisites: NONE

Adobe InDesign CS3 is desktop publishing software. Students learn the Adobe Design Premium CS3 software program and will also learn basics of Adobe Photoshop CS3 and Adobe Illustrator CS3 as it relates to print production. Throughout the course, students will create print media such as newsletters, posters, brochures, programs and other print media.

**BUSINESS MANAGEMENT AND ENTREPRENEURSHIP #757**

**LEVEL: 11-12**  
**CREDIT: .5 ONE SEMESTER**  
**FEE: \$45.00**

Prerequisites: NONE

This course provides an excellent background for junior and senior students planning to pursue a Business major in college. It is the study of the structures and practices of business organizations operating under our free enterprise economy. Topics include international business, entrepreneurship, total quality management, organizational teamwork, human resources, leadership styles, labor-management negotiations and multicultural diversity. Students will examine the environment of small business ownership, the procedures and skills necessary to manage and open a small business, and the policies and practices of a successful business operation. Students will use computer applications and the Internet to explore business trends in management.

**INTERNATIONAL BUSINESS #758**

**LEVEL: 11-12**  
**CREDIT: .5 ONE SEMESTER**  
**FEE: \$45.00**

Prerequisites: NONE

This course for junior and senior students encompasses the interconnectedness of the world's global economies and their relationship to the U.S. This course dissects the U.S. Government's policies in context with its international trading partners and provides insight into how this delicate balance is maintained and managed.

This course includes strong links to history, geography, politics and policies, cultures, natural resources, labor forces, management, marketing, finance, business math, business law, entrepreneurship and management courses and combines them into one cohesive course. International business is one of the most pertinent topics affecting the global economy we live in and is one of the most prevalent topics currently taught in college and university business schools.

## PHYSICAL EDUCATION DEPARTMENT

Each student is required to take **TWO SEMESTERS** of physical education. The grade for these classes will be averaged into the GPA. Physical education can be taken at any time within the four years of high school, however, **students may not repeat the same semester.**

### FALL PHYSICAL EDUCATION #815 (MEN)

LEVEL: 9-10-11-12  
CREDIT: .5

### FALL PHYSICAL EDUCATION #816 (WOMEN)

LEVEL: 9-10-11-12  
CREDIT: .5

**SEMESTER TWO** courses (See below - #824 and #825) Course units include a variety of movement activities as well as team sports. The emphasis is on active participation now and as a future lifetime pursuit.

- **Students may not repeat the same semester.**
- **Students may not take the Summer session twice.**

### SPRING PHYSICAL EDUCATION #824 (MEN)

LEVEL: 9-10-11-12  
CREDIT: .5

### SPRING PHYSICAL EDUCATION #825 (WOMEN)

LEVEL: 9-10-11-12  
CREDIT: .5

### HEALTH #830

LEVEL: 9-10-11-12  
CREDIT: .5 ONE SEMESTER  
FEE: \$5.00

Health is a semester course that focuses on personal health, with emphasis on health related topics.

### INTRO. TO FITNESS – FALL or SPRING (COED) #831

LEVEL: 9-10-11-12  
CREDIT: .5  
FALL OR SPRING (COED)

All **NON-ATHLETES** who do not have a personal trainer.

Physical Fitness is a semester course intended for **NON-ATHLETES** who are not involved in a sport who are interested in improving their overall fitness level. The student will have a Physical Fitness Assessment (pre and post). The student will develop a physical fitness program. This course follows the Bigger, Faster, Stronger Program. This is a semester of conditioning and running daily. This course may be taken more than once.

### PHYSICAL FITNESS I (#832, #833, #834)

are semester courses intended for **ATHLETES** who are interested in improving their overall fitness level. The student will have a Physical Fitness Assessment (pre and post). The student will develop a personal fitness program. This course follows the Bigger, Faster, Stronger Program. This is a semester of conditioning and running daily.

**\*If you are lifting with an outside source/team/personal trainer, you are still required to do daily conditioning in class.**

### PHYSICAL FITNESS I #832 FALL (COED)

LEVEL: 9-10-11-12  
CREDIT: .5  
FALL (COED)

The members of the following **OFF-SEASON TEAMS** are allowed to take this course (#832): Track, Girls Soccer, Girls Basketball, Girls Softball, Cheerleading, Poms. All Freshman/Sophomore athletes, Boys Tennis, Girls Gymnastics, Hockey.

This course is for **OFF-SEASON ATHLETES** (if you are participating in a fall sport you MAY sign up for this class).

### PHYSICAL FITNESS I – VARSITY PRE-SEASON FALL #833 (MEN)

LEVEL: 9-10-11-12  
CREDIT: .5  
FALL (MEN)

The members of the following **OFF-SEASON TEAMS** are allowed to take this course (#833): Varsity Baseball, Varsity Boys Basketball, Varsity Wrestling, Varsity Boys Volleyball.

This course is for **OFF-SEASON VARSITY ATHLETES** (if you are participating in a fall varsity sport you MAY NOT sign up for this class).

## PHYSICAL EDUCATION DEPARTMENT

### PHYSICAL FITNESS I – SPRING #834 (COED)

LEVEL: 9-10-11-12  
CREDIT: .5  
SPRING (COED)

The members of the following OFF-SEASON TEAMS are allowed to take this course (#834): Cross Country, Boys Soccer, Underclass Football, Cheerleading, Boys & Girls Golf, Poms, Girls Volleyball, Girls Tennis, all Freshman/Sophomore athletes.

This course is offered for OFF-SEASON ATHLETES (if you are participating in a spring sport you MAY NOT sign up for this class.

### PHYSICAL FITNESS II – VARSITY PRE-SEASON SPRING #835 (MEN)

LEVEL: 9-10-11-12  
CREDIT: .5  
SPRING (MEN)

The members of the following OFF-SEASON TEAMS are allowed to take this course: Varsity Football, Underclass Football from fall semester, Varsity Wrestling

This course is for OFF-SEASON VARSITY ATHLETES (if you are participating in a Varsity spring sport you MAY NOT sign up for this class).

**Prerequisite: Physical Fitness I #831 and fitness teacher signature.**

This class is for **ATHLETES** only who have taken Physical Fitness I #831. This course may be taken more than once.

ALL ATHLETES MUST FOLLOW THE FITNESS CLASS PROGRAM; YOU HAVE TO LIFT WHEN THE CLASS LIFTS.

IN ALL FITNESS CLASSES YOU ARE INELIGIBLE TO TAKE THESE COURSES IF YOU HAVE A PERSONAL TRAINER.

### INTRO. TO ATHLETIC TRAINING #864

LEVEL: 11-12  
CREDIT: .5  
FEE: \$450.00

This laboratory physical education course is offered to students who have an interest in a health care career with emphasis on the sports medicine/physical therapy field. The course provides understanding of the pathological anatomy, techniques in evaluating, and modalities of treating sports-related injuries.

Lab requirements include participation in the Carmel Sports Trainers Program. Participation is limited to twenty students. Instructors include Condell Medical Center certified athletic trainers and a board certified emergency room physician. This is an elective physical education course that does not fulfill the physical education graduation requirement.

## RELIGIOUS STUDIES DEPARTMENT

**MINISTRY PROGRAM –** Because Carmel Catholic calls each student to be of service to others, each student must complete twenty hours of ministry each semester, even if a senior student takes two religion classes in one semester. These ministry hours are a graduation requirement. Other than incoming freshmen, Carmel Catholic students may complete their ministry requirement in the summer prior to the start of the school year.

### **OLD TESTAMENT #914**

**LEVEL: 9**  
**CREDIT: .5 SEMESTER ONE**

Prerequisites: NONE

This course examines the rich traditions of Judaism as a basis of the Catholic faith by analyzing the historical figures, stories, literary forms, scripture formation, and culture of the ancient Hebrew society. This course gives the student a framework and context within which to analyze the background, environment, and culture of Jesus Christ.

### **NEW TESTAMENT #915**

**LEVEL: 9**  
**CREDIT: .5 SEMESTER TWO**

Prerequisites: NONE

This course focuses on the life, time frame, teachings, parables, and miracles of Jesus Christ. The student examines the tenets and teachings of Jesus as they apply to his/her life. A historical perspective is included to enable the student to appreciate the style and genre of the New Testament writers. A study of scripture text formation enables the student to analyze the context of the New Testament.

### **SACRAMENTS #924**

**LEVEL: 10**  
**CREDIT: .5 SEMESTER ONE**

Prerequisites: NONE

The student explores symbol, ritual, and prayer found within his/her own life, in the Gospels and in the Roman Catholic Tradition with an emphasis on an understanding of the sacramentality of life. The student studies the meaning along with the historical development of the seven sacraments focusing on the continued importance of partaking in the liturgical life of the Church.

### **CATHOLIC MORALITY #926**

**LEVEL: 10**  
**CREDIT: .5 SEMESTER TWO**

Prerequisites: NONE

Catholic Morality is a course designed to help students learn Catholic Moral Principles and to use them as guidelines in making decisions throughout their lives. In this class, the students will discuss personal character and virtue to help become better informed and responsive in living a Christian moral life. Students will also learn a decision making model and will practice using it in hypothetical situations.

### **CATHOLIC SOCIAL JUSTICE #935**

**LEVEL: 11**  
**CREDIT: .5 SEMESTER ONE**

Prerequisites: NONE

This course examines the current moral trends, problems and issues that affect our society. These issues are examined in the light of Catholic social teaching which offers humanity a direction and a social vision that

mirrors the values of the reign of God that Jesus announced and embodied.

### **CHURCH HISTORY #936**

**LEVEL: 11**  
**CREDIT: .5 SEMESTER TWO**

Prerequisites: NONE

This course seeks to help the students appreciate the development of the Catholic Church through history. An introductory course on Church history attempts to help the students come to an appreciation of both history and Church. Rather than mere chronology, this course describes Church history as a story; how Christ has been and continues to be manifested through Christians in the various historical circumstances that the Church has found herself.

### **CHRISTIAN LIFESTYLES #937**

**LEVEL: 12**  
**CREDIT: .5 ONE SEMESTER**

Prerequisites: NONE

This course examines the life choices a person makes including the single, religious, and married lifestyles. The student examines personal growth issues such as self-esteem, maturity, sexuality, as well as healthy living qualities such as compassion, joy, generosity, and choosing God's gifts in light of making complex life choices every day. The student analyzes life topics such as dating, family, divorce, death, separation, commitment, responsibility, and child rearing.

**COMPARATIVE WORLD RELIGIONS #939**

**LEVEL: 12**

**CREDIT: .5 ONE SEMESTER**

Prerequisites: NONE

In light of the truths presented in the Catholic faith, this course enables the student to examine, analyze, and appreciate the rich traditions of the major world religions. The student compares Christian beliefs in light of the beliefs and cultures of the world's religions.

**WOMEN OF FAITH #941**

**LEVEL: 12**

**CREDIT: .5 ONE SEMESTER**

Prerequisites: NONE

The first quarter surveys the role and contributions of significant women in both the Hebrew Scriptures and the Christian Testament. The second quarter examines the lives and writings of a cross-section of Catholic women throughout the history of the Church: mothers, daughters, mystics, healers, teachers, visionaries, artists and founders.

**JOURNEY TO GOD #942**

**LEVEL: 12**

**CREDIT: .5 ONE SEMESTER**

Prerequisites: Completion of departmental questionnaire on student's level of spirituality; signature of current Journey to God teacher based on approval by former teachers.

This course is ideal for students who have a well-founded spiritual life, faith life, and belief in the existence of God.

The students build and enhance their spiritual and prayer experiences through meditations, reflections,

discussions, prayer services, in-depth research on past and present religious thinkers and saints, and journal writing, as well as the study of spiritual exercises emphasized by various Catholic saints and thinkers. Students also study the Enneagram theory of personality from a Catholic perspective.

**CATHOLIC PHILOSOPHY #945**

**LEVEL: HONORS 12**

**CREDIT: .5 ONE SEMESTER**

Prerequisites: Cummulative GPA of 3.00; signature of department chairperson.

The student is presented with various philosophical insights from past and present philosophical analysts and thinkers, so that he/she can evaluate, synthesize and put together a rudimentary framework for his/her own philosophical thoughts. The student is challenged to defend his/her own philosophical insights as he/she incorporates various other philosophical thought processes.

**EARLY DISMISSAL #997**

**LEVEL: 12 SEMESTER ONE**

Prerequisite: If an academic course, which you wish to schedule is offered only G period, then the academic course will have priority over scheduling Early Dismissal.

If you have completed the necessary courses and credits for graduation from Carmel Catholic, EARLY DISMISSAL may be an option available to you. You will be dismissed from school after F period. You must leave the campus.

**EARLY DISMISSAL #998**

**LEVEL: 12 SEMESTER TWO**

Prerequisite: If an academic course, which you wish to schedule is offered only G period, then the academic course will have priority over scheduling Early Dismissal.

If you have completed the necessary courses and credits for graduation from Carmel Catholic, EARLY DISMISSAL may be an option available to you. You will be dismissed from school after F period. You must leave the campus.

# CARMEL CATHOLIC HIGH SCHOOL

## Typical Four-Year Course Sequence 2011-2012

<u>9th Grade</u>	<u>10th Grade</u>	<u>11th Grade</u>	<u>12th Grade</u>
<u>Fine Arts</u>	<u>Fine Arts</u>	<u>Fine Arts</u>	<u>Fine Arts</u>
011 Art I	011 Art I	011 Art I	011 Art I
020 History of Rock & Roll (sem)	012 Art II (H)	012 Art II (H)	012 Art II (H)
022 Beginning Guitar (sem)	016 Ceramics/Sculpture (H)	013 Art III (H)	013 Art III (H)
065 Guitar II (sem)	020 History of Rock & Roll (sem)	016 Ceramics/Sculpture (H)	014 Art IV (H)
024 Concert Choir	022 Beginning Guitar (sem)	017 Adv. Ceramics/Sculpture (H)	015 AP Studio Art
025 Treble Choir	065 Guitar II (sem)	020 History of Rock & Roll (sem)	016 Ceramics/Sculpture (H)
028 Co-Choir (per. M)	024 Concert Choir	022 Beginning Guitar (sem)	017 Adv. Ceramics/Sculpture (H)
030 Parkway Singers (H) (per. M)	025 Treble Choir	065 Guitar II (sem)	020 History of Rock & Roll (sem)
054 Concert Band	027 Adv. Choir (H)	024 Concert Choir	022 Beginning Guitar (sem)
055 Wind Ensemble (H)	028 Co-Choir (per. M)	025 Treble Choir	065 Guitar II (sem)
056 Jazz Band (per. M)	030 Parkway Singers (H) (per. M)	027 Adv. Choir (H)	024 Concert Choir
057 String Ensemble (per. M)	054 Concert Band	028 Co-Choir (per. M)	025 Treble Choir
058 Jazz Combo (H) (per. M)	055 Wind Ensemble (H)	030 Parkway Singers (H) (per. M)	027 Adv. Choir (H)
059 Music & World Culture H (yr)	056 Jazz Band (per. M)	054 Concert Band	028 Co-Choir (per. M)
060 Music & World Culture H (sem)	057 String Ensemble (per. M)	055 Wind Ensemble (H)	030 Parkway Singers (H) (per. M)
062 Percussion Ensemble (per. H)	058 Jazz Combo (H) (per. M)	056 Jazz Band (per. M)	054 Concert Band
070 Basic Drama Tech (sem)	059 Music & World Culture H (yr)	057 String Ensemble (per. M)	055 Wind Ensemble (H)
072 Theater Tech (sem)	060 Music & World Culture H (sem)	058 Jazz Combo (H) (per. M)	056 Jazz Band (per. M)
	062 Percussion Ensemble (per. H)	059 Music & World Culture H (yr)	057 String Ensemble (per. M)
	070 Basic Drama Tech (sem)	060 Music & World Culture H (sem)	058 Jazz Combo (H) (per. M)
	071 Adv. Drama/Theater Tech	061 AP Music Theory	059 Music & World Culture H (yr)
	072 Theater Tech (sem)	062 Percussion Ensemble (per. H)	060 Music & World Culture H (sem)
		070 Basic Drama Tech (sem)	061 AP Music Theory
		071 Adv Drama/Theater Tech	062 Percussion Ensemble (per. H)
		072 Theater Tech (sem)	070 Basic Drama Tech (sem)
			071 Adv Drama/Theater Tech
			072 Theater Tech (sem)
<u>English</u>	<u>English</u>	<u>English</u>	<u>English</u>
110 English Lit and Language H	120 AmLit/Comp H	130 British Lit/Comp H	140 World Lit/Comp H
111 English Lit and Language	121 AmLit/Comp	131 British Lit/Comp	141 World Lit/Composition
112 English Lit and Language	162 Creative Writing (sem) *	135 AP English Language/Comp	145 AP Eng Literature/Comp
113 Critical Reading & Skills *	163 Speech (sem) *	160 Film Appreciation (sem) *	160 Film Appreciation (sem) *
171 Intro. to Journal Writing (sem) *	171 Intro. to Journal Writing (sem) *	162 Creative Writing (sem) *	162 Creative Writing (sem) *
*(and be enrolled in English)	172 Journalism *	163 Speech (sem) *	163 Speech (sem) *
	173 Journalism H *	171 Intro. to Journal Writing (sem) *	171 Intro. to Journal Writing (sem) *
	175 Yearbook *	172 Journalism *	172 Journalism *
	*(and be enrolled in English)	173 Journalism H *	173 Journalism H *
		175 Yearbook *	175 Yearbook *
		*(and be enrolled in 130, 131 or 135)	180 Research and Technology (sem)
			*(and be enrolled in 140, 141 or 145)
<u>Mathematics</u>	<u>Mathematics</u>	<u>Mathematics</u>	<u>Mathematics</u>
210 Adv. Algebra H	230 Geometry H	240 Algebra II H	241 Algebra II
220 Algebra I H	231 Geometry	241 Algebra II	242 Pre-Calc/Trig
222 Algebra I	232 Geometry	242 Pre-Calc/Trig	245 Topics in Math (yr)
224 Algebra I	240 Algebra II H	245 Topics in Math (yr)	246 Pre-Calc/Trig
	241 Algebra II	248 Programming I (H) (sem 1)	248 Programming I (H) (sem 1)
	248 Programming I (H) (sem 1)	249 Programming II (H) (sem 2)	249 Programming II (H) (sem 2)
	249 Programming II (H) (sem 2)	250 Pre-Calc/Trig H	250 Pre-Calc/Trig H
			251 AP Programming
			252 AP Statistics
			260 AP Calculus
			261 Calculus H
<u>World Languages</u>	<u>World Languages</u>	<u>World Languages</u>	<u>World Languages</u>
310 French I H	310 French I H	310 French I H	310 French I H
311 French II H	311 French II H	311 French II H	311 French II H
312 French III H	312 French III H	312 French III H	312 French III H
315 French I	315 French I	314 AP French Language	314 AP French Language
316 French II	316 French II	315 French I	315 French I
317 French III	317 French III	316 French II	316 French II
340 Latin I H	318 French IV H	317 French III	317 French III
341 Latin II H	340 Latin I H	318 French IV H	318 French IV H
342 Latin III H	341 Latin II H	340 Latin I H	340 Latin I H
343 Latin I	342 Latin III H	341 Latin II H	341 Latin II H

**CARMEL CATHOLIC HIGH SCHOOL**  
**Typical Four-Year Course Sequence 2011-2012**

**9th Grade**

**World Languages (continued)**

344 Latin II  
 351 Spanish II H  
 352 Spanish III H  
 354 Spanish I  
 355 Spanish I  
 356 Spanish II  
 357 Spanish III

**Science**

410 Physics H  
 411 Physics

**Social Studies**

510 World History H  
 511 World History

**Business Education**

725 Intro to Business (sem)  
 753 Web Design (sem)  
 754 Microsoft Applications (sem)  
 756 Adobe in Design CS3 (sem)

**10th Grade**

**World Languages (continued)**

343 Latin I  
 346 Latin IV  
 350 Spanish I H  
 351 Spanish II H  
 352 Spanish III H  
 354 Spanish I  
 355 Spanish I  
 356 Spanish II  
 357 Spanish III  
 358 Spanish IV H

**Science**

415 Chem. H  
 416 Chemistry  
 423 Astronomy - Fall (sem)  
 424 Astronomy - Spring (sem)  
 426 Environmental Science (sem)  
 427 Zoology  
 428 Geoscience (sem)  
 437 Physics II

**Social Studies**

505 AP World History  
 510 World History H  
 511 World History  
 515 Geography (sem)  
 516 20th Century World (sem)  
 518 Holocaust/Genocide (sem)  
 519 Chicago History & Culture (sem)  
 555 Economics (sem)

**Business Education**

721 Accounting I  
 725 Intro to Business (sem)  
 736 Marketing (sem)  
 753 Web Design (sem)  
 754 Microsoft Applications (sem)  
 756 Adobe in Design CS3 (sem)

**11th Grade**

**World Languages (continued)**

342 Latin III H  
 344 Latin II  
 346 Latin IV  
 347 AP Vergil  
 350 Spanish I H  
 351 Spanish II H  
 352 Spanish III H  
 355 Spanish I  
 356 Spanish II  
 357 Spanish III  
 358 Spanish IV H  
 359 AP Spanish Language

**Science**

420 Biology H  
 421 Biology  
 423 Astronomy - Fall (sem)  
 424 Astronomy - Spring (sem)  
 426 Environmental Science (sem)  
 427 Zoology  
 428 Geoscience (sem)  
 437 Physics II  
 440 AP Chemistry  
 465 AP Physics  
 466 Biotechnology H (sem)  
 467 Science Research

**Social Studies**

515 Geography (sem)  
 516 20th Century World (sem)  
 518 Holocaust/Genocide (sem)  
 519 Chicago History & Culture (sem)  
 520 AP US History  
 530 US History H  
 533 US History  
 541 US Gov. (sem 2)  
 545 Psychology for Life (sem)  
 547 Sociology (sem)  
 555 Economics (sem)

**Business Education**

721 Accounting I  
 722 Accounting II H  
 731 Business Law (sem)  
 734 Finance (sem)  
 736 Marketing (sem)  
 753 Web Design (sem)  
 754 Microsoft Applications (sem)  
 756 Adobe in Design CS3 (sem)  
 757 Business Management (sem)  
 758 International Business (sem)

**12th Grade**

**World Languages (continued)**

342 Latin III H  
 344 Latin II  
 346 Latin IV  
 347 AP Vergil  
 350 Spanish I H  
 351 Spanish II H  
 352 Spanish III H  
 355 Spanish I  
 356 Spanish II  
 357 Spanish III  
 358 Spanish IV H  
 359 AP Spanish Language

**Science**

422 Anatomy and Physiology H  
 423 Astronomy - Fall (sem)  
 424 Astronomy - Spring (sem)  
 425 Botany (sem)  
 426 Environmental Science (sem)  
 427 Zoology  
 428 Geoscience (sem)  
 431 Chemistry  
 437 Physics II  
 440 AP Chemistry  
 450 AP Biology  
 460 Upperclassmen Physics H  
 461 Upperclassmen Physics  
 465 AP Physics  
 466 Biotechnology H (sem)  
 467 Science Research

**Social Studies**

505 AP World History  
 515 Geography (sem)  
 516 20th Century World (sem)  
 518 Holocaust/Genocide (sem)  
 519 Chicago History & Culture (sem)  
 535 AP US Gov. (sem)  
 540 US Gov. H (sem)  
 541 US Gov. (sem)  
 545 Psychology for Life (sem)  
 546 AP Psychology (yr)  
 547 Sociology (sem)  
 550 AP European History  
 555 Economics (sem)

**Business Education**

721 Accounting I  
 722 Accounting II H  
 731 Business Law (sem)  
 734 Finance (sem)  
 736 Marketing (sem)  
 753 Web Design (sem)  
 754 Microsoft Applications (sem)  
 756 Adobe in Design CS3 (sem)  
 757 Business Management (sem)  
 758 International Business (sem)

**CARMEL CATHOLIC HIGH SCHOOL**  
**Typical Four-Year Course Sequence 2011-2012**

**9th Grade**

**Physical Education**

- 815 Fall P.E. (men)
- 816 Fall P.E. (women)
- 824 Spring P.E. (men)
- 825 Spring P.E. (women)
- 830 Health (sem)
- 831 Fall/Spr Intro. to Fitness  
(Non athlete coed)
- 832 Fall Phys. Fitness I  
(Off season athlete coed)
- 833 Fall Phys. Fitness I  
(Varsity pre-season men)
- 834 Spr. Phys. Fitness I  
(Off season athletes coed)
- 835 Spr. Phys. Fitness I  
(Off season athletes men)

**Religious Studies**

- 914 Old Testament (sem 1)
- 915 New Testament (sem 2)

**10th Grade**

**Physical Education**

- 815 Fall P.E. (men)
- 816 Fall P.E. (women)
- 824 Spring P.E. (men)
- 825 Spring P.E. (women)
- 830 Health (sem)
- 831 Fall/Spr Intro. to Fitness  
(Non athlete coed)
- 832 Fall Phys. Fitness I  
(Off season athlete coed)
- 833 Fall Phys. Fitness I  
(Varsity pre-season men)
- 834 Spr. Phys. Fitness I  
(Off season athletes coed)
- 835 Spr. Phys. Fitness I  
(Off season athletes men)

**Religious Studies**

- 924 Sacraments (sem 1)
- 926 Catholic Morality (sem 2)

**11th Grade**

**Physical Education**

- 815 Fall P.E. (men)
- 816 Fall P.E. (women)
- 824 Spring P.E. (men)
- 825 Spring P.E. (women)
- 830 Health (sem)
- 831 Fall/Spr Intro. to Fitness  
(Non athlete coed)
- 832 Fall Phys. Fitness I  
(Off season athlete coed)
- 833 Fall Phys. Fitness I  
(Varsity pre-season men)
- 834 Spr. Phys. Fitness I  
(Off season athletes coed)
- 835 Spr. Phys. Fitness I  
(Off season athletes men)
- 864 Intro. to Athletic Training (sem)

**Religious Studies**

- 935 Catholic Social Justice (sem 1)
- 936 Church History (sem 2)

**12th Grade**

**Physical Education**

- 815 Fall P.E. (men)
- 816 Fall P.E. (women)
- 824 Spring P.E. (men)
- 825 Spring P.E. (women)
- 830 Health (sem)
- 831 Fall/Spr Intro. to Fitness  
(Non athlete coed)
- 832 Fall Phys. Fitness I  
(Off season athlete coed)
- 833 Fall Phys. Fitness I  
(Varsity pre-season men)
- 834 Spr. Phys. Fitness I  
(Off season athletes coed)
- 835 Spr. Phys. Fitness I  
(Off season athletes men)
- 864 Intro. to Athletic Training (sem)

**Religious Studies**

- 937 Christian Lifestyles (sem)
- 939 Comparative World Religions (sem)
- 941 Women of Faith (sem)
- 942 Journey to God (sem)
- 945 Catholic Philosophy H (sem)

**Early Dismissal**

- 997 Early Dismissal (sem 1)
- 998 Early Dismissal (sem 2)



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