

2009-2010 Curriculum Guide



TABLE OF CONTENTS

Carmel Catholic Graduation Requirements	Page 2
Fine Arts Department	Page 5
English Department	Page 12
Mathematics Department	Page 16
World Languages Department	Page 20
Science Department	Page 26
Social Studies Department	Page 30
Business Education Department	Page 34
Physical Education Department	Page 36
Religious Studies Department	Page 37
Early Dismissal	Page 39

The courses listed in this booklet are offered for 2009-2010. The classes actually taught during the 2009-2010 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 Catholic 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 GRADUATION REQUIREMENTS

Twenty-four units of credit are required for the class of 2010 as follows:

4	English
3	Mathematics (including Algebra and Geometry)
4	Religious Education
3	Science (including 1-Life Science, 1-Physical Science)
3	Social Studies (including World History, U.S. History, American Government)
1	Physical Education/Health
2	World Languages or Fine Arts
.5	Introduction to Computers
3.5	Electives

Because our new schedule will allow 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 will implement a new rotation schedule which allows for the addition of one class period each year. This addition will result 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 class of 2013. The class of 2012 may take Health at any time before graduation.

Although Fine Arts and Health will not be required for students in the classes of 2010 or 2011, they may take Health or Fine Arts as an elective.

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

Class of 2010

Credits necessary for graduation: 24

Required courses: English, Religion, American Govt., Social Studies

Students must take a minimum of six classes. Seniors, 2010 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 will 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 2011

Credits necessary for graduation: 26

Required courses: English, Religion, U.S. History, Math

Students must take a minimum of seven classes. Two semesters of P.E. must be completed before graduation

Class of 2012

Credits necessary for graduation: 27

Required courses: English, Religion, Geometry, Biology

Students must take a minimum of seven classes.

World History and computers must be taken during either the freshman or sophomore year. Two semesters of Physical Education and one semester of Health must be completed before graduation.

Class of 2013

Credits necessary for graduation: 28

Required courses: English, Religion, Algebra, Physics

Students must take a minimum of seven classes. Health, World History and computers must be taken during either the freshman or sophomore year. Two semesters of P.E. 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 2012 who qualify for participation in the Center will be contacted individually for an appointment to discuss individual details. Students and parents of the Class of 2013 and beyond should contact the Director of Admissions for further details.

FINE ARTS DEPARTMENT

ART I #011

LEVEL: 9-10-11-12
CREDIT: 1 ONE YEAR
LAB FEE: \$145.00
(Required pre-packaged Art I kit included)

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 in this course will contract to be graded either with letter grades or on a P/F basis.

ART II #012

LEVEL: 10-11-12
CREDIT: 1 ONE YEAR
LAB FEE: \$145.00
(Required pre-packaged Art II kit included)

Prerequisites: Minimum of "C" average 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 in this course will contract to be graded with letter grades or on a P/F basis.

ART III #013

LEVEL: 11-12
CREDIT: 1 ONE YEAR
LAB FEE: \$145.00
(Required pre-packaged Art III kit included)

Prerequisites: Minimum of "C" average 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 on an advanced level using various materials including acrylic and oil paint, ceramics, sculpture, sketching and computer graphics. Seniors enrolled in this course are required to participate in the Senior Art Show in May. We have Adobe Photoshop, Adobe Illustrator and other software. Students in this course will contract to be graded either with letter grades or on a P/F basis.

ART IV #014

LEVEL: 12
CREDIT: 1 ONE YEAR
LAB FEE: \$145.00
(Required pre-packaged Art IV kit included)

Prerequisites: Minimum of "C" average 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 sophistication on specific projects. The students can work independently on projects. Seniors enrolled in this course are required to participate in the Senior Art Show in May. We have Adobe PhotoShop, Adobe Illustrator and other software. Students in this course will contract to be graded either with letter grades or on a P/F basis.

AP STUDIO ART #015

LEVEL: ADVANCED PLACEMENT 12
CREDIT: 1 ONE YEAR
LAB FEE: \$145.00
(Required pre-packaged A.P. Art kit included)

Prerequisites: Two years of art (at least one at Carmel); "A" or "B+" average; 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 use a 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: ONE YEAR
LAB FEE: \$145.00

Prerequisites: Art I #011 with a "C" average or better

In Ceramics, students will develop an understanding of clay construction. Students will focus on hand building and wheel throwing. Raku firing will also be explored. Surface decoration including glaze and texture will be used. If students prefer working in another medium they can 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, metals and stone. Projects in ceramics and sculpture will expand the skills learned in Art I.

**ADVANCED
CERAMICS/SCULPTURE
#017**

**LEVEL: 11-12
CREDIT: 1 ONE YEAR
LAB FEE: \$145.00**

Prerequisites: Beginning Ceramics/Sculpture #116 with a "C" average 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.

**PERFORMING ARTS
APPRECIATION #021**

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

Prerequisite: Students do not need any music background.

This will be a survey course giving the student a view into the world of the performing arts including dance, vocal, instrumental, music story telling and film. The goal will be to peak a new interest into the appreciation of the human condition and the gifts of the beautiful expressions which our human society can produce.

The students will have a better understanding of what groups go through in preparing a performance or a presentation such as school liturgies, retreats or graduation. Students will also have a deeper understanding of the human need to express ourselves and what it takes to organize a group expression in real time. Group expression is something we all do at some point in the course of our lives.

BEGINNING GUITAR #022

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

Prerequisites: Each student will need to own or rent a classical "nylon string guitar". Even though classical is a part of the instrument's core repertoire, it is used to play all kinds of music (classical, flamenco, jazz, etc.).

An inexpensive option is the Yamaha C40 if purchasing a guitar for the class.

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.

CONCERT CHOIR #024

**LEVEL: 9-10-11-12
CREDIT: 1 ONE YEAR
UNIFORM FEE: \$30.00**

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.

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. Students in this course will contract to be graded either with letter grades or on a P/F basis.

TREBLE CHOIR #025

**LEVEL: 9-10-11-12
CREDIT: 1 ONE YEAR
UNIFORM FEE: \$30.00**

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

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. Students in this course will contract to be graded either with letter grades or on a P/F basis.

ADVANCED CHOIR #027

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

Prerequisite: Completion of one year of high school chorus, and by audition. Teacher signature required. Students interested in playing piano are also encouraged to enroll.

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 (2 Cabaret Concerts, Christmas Concert, and Spring Concert) is required to earn credit in this course. Students in this course will contract to be graded either with letter grades or on a P/F basis. This course is also available for honors credit.

CO-CHOIR #028

LEVEL: 9-10-11-12 PERIOD Z
(MON. AND WED.)
CREDIT: .5 ONE YEAR
CLASS FEE: \$150.00
UNIFORM FEE: \$30.00

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 Mr. Parry.

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 and Wednesday 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. Students in this course will contract to be graded either with letter grades or on a P/F basis.

CARME LAIRES #029

LEVEL: 9-10-11-12 ONE YEAR
CREDIT: .5 PERIOD H
(TUE. AND THURS.)
CLASS FEE: \$150.00
UNIFORM FEE: \$30.00

Prerequisite: Members are selected by audition in the fall. There is no sign-up for this course prior to auditions.

This group (approximately 21 treble voices) performs at all concerts. Performances may also include off-campus tours during the Christmas season. The basic performance techniques learned are applied in the choreographed music (Broadway to Pop).

Attendance at the Tuesday and Thursday afternoon rehearsals and all performances is required to earn credit. Students in this course will contract to be graded either with letter grades or on a P/F basis.

PARKWAY SINGERS #030

LEVEL: 9-10-11-12 PERIOD Z
(TUE. AND FRI.)
CREDIT: .5 ONE YEAR
CLASS FEE: \$150.00
UNIFORM FEE: \$30.00

Prerequisite: Must be a member of Co-choir which is 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 Mr. Parry.

This course will be for members of Co-choir who have been chosen by audition to participate in Parkway Singers. It will be available to freshmen through senior students who are members of Co-choir. Students will continue to develop the concepts of voice technique taught in choir and Co-choir as well as be able to perform three and four-part vocal jazz music selections; be able to sing a cappella vocal jazz selections; and be able to perform vocal jazz selections accompanied by a rhythm section. Students in this course will contract to be graded either with letter grades or 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: \$30.00

Prerequisite: This is a non-audition group. All members must have at least two years of prior band experience or the equivalent in private lessons.

FINE ARTS DEPARTMENT

This band is a community band made up of grades 9-12. 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 August, and runs for approximately 7 or 8 consecutive weekdays before school starts. Students in this course will contract to be graded either with a letter grade or on a P/F basis. Percussion members must attend Drumline Camp June 2009.

WIND ENSEMBLE #055

LEVEL: 9-10-11-12
CREDIT: 1 ONE YEAR
UNIFORM FEE: \$60.00

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 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 August, and runs for approximately 7 or 8 consecutive weekdays before school starts.

Students in this course will contract to be graded either with letter grades or on a P/F basis. This course is also available for honors credit. Percussion members must attend Drumline Camp June 2009.

JAZZ BAND #056

LEVEL: 9-10-11-12 PERIOD Z
(MON. WED. AND FRI.)
CREDIT: .5 ONE YEAR
CLASS FEE: \$150.00
UNIFORM FEE: \$30.00

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
CREDIT: 1 ONE YEAR
UNIFORM FEE: \$30.00

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 Z
(TUES. AND THURS.)
CREDIT: .5 ONE YEAR
CLASS FEE: \$150.00
UNIFORM FEE: \$30.00

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

Prerequisite: Teacher signature required.

This course is the first of a two-year sequence. The course is divided into two semesters. The first semester deals with music and the cultures that created that music. It involves music history, world cultural relationships, and introduction of musical fields, musical form and styles.

This semester also develops general understanding of what it takes to be a good performer. 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.

MUSIC AND WORLD CULTURES #060

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

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

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 chromaticism 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. It is the expectation of this course that the music theory advanced placement test be taken.

PERCUSSION ENSEMBLE #062

LEVEL: 9-10-11-12 PERIOD H (TUES. AND THURS.)
CREDIT: .5 ONE YEAR
CLASS FEE: \$150.00
UNIFORM FEE: \$30.00

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). This class requires that students be a member of Concert Band or Wind Ensemble. This group performs at various school events and Solo and Ensemble. Students in this course will contract to be graded either with letter grades or 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 2 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 3 outside of Carmel Catholic High School performances
- 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 3 outside of Carmel Catholic High School performances.

(5) Music students applying for honors credit in more than one music course do not need to duplicate the above requirements

And also choose 2 of the following projects:

(1) Prepare a written report of 1000 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. 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.)

(2) Audition for the IMEA District Choirs and Instrumental groups and/or selection to participate at the State level.

(3) Participate in community or Parish/Church music groups (Signatures required)

(4) Accompany a choir at concerts or accompany at least 3 solo and ensemble events.

(5) Participate by playing or singing with the Liturgical Choir for at least 75% of the Masses and Liturgies. (Signatures required)

(6) 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.

(3) 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.

DRAMA/THEATRICAL TECHNIQUES #070

LEVEL: 9-10-11-12

CREDIT: 1 ONE YEAR

Prerequisite: NONE

Coursework includes learning basic dramatic techniques through imaging, verbal expression, body movement, sensory recall and vocal dynamics. We will work on elements of acting by creative improvisation exercises, monologues, scene work and formal theater pieces. Study includes exercises in characterization, character analysis, improvisation and pantomime in different genres. Students will develop their physical acting skills through class participation and performance. Students must participate in Drama Club and be involved in at least one production throughout the school year. Students have the option to contract to be graded either with letter grades or on a P/F basis.

**ADVANCED DRAMA/
THEATRICAL
TECHNIQUES #071**

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

Prerequisite: Students must have taken Drama #070 or have outside performance experience. See instructor first.

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 belong to the Drama Club and participate in at least one school production as a cast or crew member. Students have the option to contract to be graded either with letter grades or on a P/F basis.

THEATER TECH #072

**LEVEL: 10-11-12
CREDIT: .5 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, 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: HONORS 9
CREDIT: 1 ONE YEAR

Prerequisites: Percentile score of 85 or above in verbal, reading, and language usage on the high school entrance exam; recommendation of elementary school personnel

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

Prerequisites: Percentile score between 40 and 84 on the high school entrance exam in verbal, reading, and language usage; recommendation of elementary school personnel

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

Prerequisites: Percentile score of 39 or below in verbal, reading, and language usage on the high school entrance exam; recommendation of elementary school personnel

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.

**INTRODUCTION TO
COMMUNICATION SKILLS
#113**

LEVEL: 9
CREDIT: 1 ONE YEAR
FEE: \$40.00

Prerequisites: Percentile score of 39 or below in verbal, reading, and language usage on the high school entrance exam; recommendation of elementary school personnel

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 including *The 7 Habits of Highly Effective Teens*.

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: HONORS 10
CREDIT: 1 ONE YEAR

Prerequisites: Signature of freshman English teacher; minimum of "B" average 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: HONORS 11
CREDIT: 1 ONE YEAR**

Prerequisites: Signature of sophomore English teacher; minimum of "B" average in American Literature/Composition Honors #120

This course deals with major selections from Anglo-Saxon through twentieth-century prose and poetry of the British Isles. In addition to the text, 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 Literature/Composition #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: ADVANCED PLACEMENT
11
CREDIT: 1 ONE YEAR**

Prerequisites: Signature of sophomore English teacher; minimum of "B" average in American Literature/Composition 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 collaborative writing experiences and informal 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: HONORS 12
CREDIT: 1 ONE YEAR**

Prerequisites: Signature of junior English teacher; minimum of "B" average in English Literature/Composition

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

Prerequisites: Signature of junior English teacher; minimum of "B" average in English Literature/Composition Honors #130 or a minimum of "C" 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: 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. *This is an elective course and must be taken in addition to one credit in English.*

SPEECH #163**LEVEL: 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 publishing, communicating, creating, 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. The student's work may be published in Crossroads, the school newspaper. *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 of C+ in Introduction to Journalistic Writing #171; or newspaper advisor's signature

Students enrolled in this course are primarily responsible for the news stories and photographs for Crossroads.

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.

Students in this course will contract to be graded either with letter grades or on a P/F basis. *This is an elective course and must be taken in addition to one credit in English.*

JOURNALISM H #173

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

Prerequisite: Minimum of C+ average in Introduction to Journalistic Writing #171 or

Journalism #172. Students who apply for Honors Journalism should sign up for Journalism #172 and will be moved to Honors Journalism by the advisor.

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

This student is responsible for the layout and design of a particular section of the newspaper on a monthly basis.

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 (from Introduction to Journalistic Writing and Journalism I) 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 one late night session per issue.

Students in this course will contract to be graded either with letter grades or on a Pass/Fail basis. *This is an elective course and must be taken in addition to one credit in English.*

YEARBOOK #175

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

Prerequisites: Interested students must turn in an essay and letter of recommendation from a current Carmel teacher to the Yearbook moderator at least 7 days in advance of registration to be considered for staff positions.

Students must receive written approval from the Yearbook moderator, as 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.*

**ADVANCED ALGEBRA
#210****LEVEL: HONORS 9
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; 75th percentile or above in math scores on high school entrance exam

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: HONORS 9
CREDIT: 1 ONE YEAR**

Prerequisite: 75th percentile or above in math scores on high school entrance exam

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**

Prerequisite: 40-74 percentile in math scores on high school entrance exam

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**

Prerequisite: Math score not above the 39th percentile on the high school entrance exam, indicating that basic skill development is needed

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: HONORS 10
CREDIT: 1 ONE YEAR**

Prerequisites: Minimum of "C" in Advanced Algebra #210, minimum of "C" in Algebra I Honors #220 or a minimum of "A" 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 of "C" in Algebra I #222; minimum of "A" 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 of "D" 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 algebra concepts. The topics covered are points, lines, angles, triangles, polygons, circles, solid figures, congruence, similarity, ratio and proportion, area and volume, and coordinate graphs. A TI-83 or TI-84 graphing calculator is required for this course.

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

Prerequisites: Minimum of a "C" in Algebra I Honors #220; signature of current math teacher or "A" in Algebra I #222 and successful completion of the Algebra I Honors Proficiency Exam; signature of current math teacher. The course may be taken in conjunction with Geometry #230 or the student could have completed Geometry #230 with a minimum of a "C" or Geometry #231 with a minimum of an "A".

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 of "C" in Algebra I #222 or Topics in Mathematics #245 and Geometry #231; signature of current math teacher

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.

**ADVANCED
MATHEMATICAL
CONCEPTS,
PRECALCULUS WITH
APPLICATIONS #242****LEVEL: 11, 12****CREDIT: 1 ONE YEAR**

Prerequisites: Minimum of "B" 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 is required for this course.

**PRE-CALCULUS TOPICS
AND APPLICATIONS I
#246****LEVEL: 12
CREDIT: 1 ONE YEAR**

Prerequisites: Successful completion of Algebra II/Trig #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/Trig 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: STANDARD & HONORS
10-11-12
CREDIT: .5 SEMESTER ONE
LAB FEE: \$45.00**

Prerequisites: Minimum of "C" in Algebra I (Math 222, 220, or 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: STANDARD & HONORS
10-11-12
CREDIT: .5 SEMESTER TWO
LAB FEE: \$45.00**

Prerequisite: Minimum of "C" 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-CALCULUS/
TRIGONOMETRY #250****LEVEL: HONORS 11-12
CREDIT: 1 ONE YEAR**

Prerequisites: Minimum of "B" 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: ADVANCED PLACEMENT
11-12
CREDIT: 1 ONE YEAR
LAB FEE: \$90.00**

Prerequisites: Minimum of "B" 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: ADVANCED PLACEMENT
12
CREDIT: 1 ONE YEAR**

Prerequisites: Minimum of "B" in Algebra II/Trig-Honors #240; signature of current math teacher

This course is an upper level mathematics course intended to provide the student with strong statistics background required for many college majors including biology, physics, accounting, etc. The student will learn to explore and interpret data, normal distribution, sampling methods, experiment designs, simulations, probability, random variables, binomial and geometric distributions, sampling distributions and statistical influence. This course is designed to prepare the student 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: ADVANCED PLACEMENT
12
CREDIT: 1 ONE YEAR**

Prerequisites: "A" 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 test. A TI-83 or TI-84 graphing calculator is required for this course. Students are required to take the AP exam.

CALCULUS #261

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

Prerequisites: "A" in Advanced Concepts #242, or a minimum of a "C" in Pre-Calculus #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: HONORS 9-10-11-12
CREDIT: 1 ONE YEAR
FEE: \$6.00 NATIONAL FRENCH TEST FEE

Prerequisites: **Freshmen:** Composite scores at or above the 70th percentile on the high school entrance exam; above average grades in elementary school. Department placement required.

Sophomores, Juniors, Seniors: Minimum of "B" 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 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.

FRENCH II #311

LEVEL: HONORS 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 of "C" average 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: HONORS 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 of "C" average 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: ADVANCED PLACEMENT 11-12
CREDIT: 1 ONE YEAR
FEE: \$6.00 NATIONAL FRENCH TEST FEE

Prerequisites: Minimum of "B" average 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 American 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. 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; composite scores of 40th-69th percentile on the high school entrance exam. 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 of "C" average 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 of "C" average 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: HONORS 10-11-12
CREDIT: 1 ONE YEAR
FEE: \$6.00 NATIONAL FRENCH TEST FEE

Prerequisites: Minimum of "C" average 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. Based on enrollment, students in French IV #318 may be grouped with French III Honors #312.

LATIN I #340

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

Prerequisites: **Freshmen:** Composite scores at or above the 70th percentile on the high school entrance exam; above average grades in elementary school. Department placement required. **Sophomores, Juniors:** Minimum of "B" 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: HONORS 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 of "B-" average 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: HONORS 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 of "B" average 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; composite scores of 40th-69th percentile on the high school entrance exam.

Sophomores, Juniors, Seniors: Minimum of "C" 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 of "C" average 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: HONORS 10-11-12
CREDIT: 1 ONE YEAR
FEE: \$4.00 NATIONAL LATIN TEST FEE

Prerequisites: Minimum of "B" average 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: ADVANCED PLACEMENT 11-12
CREDIT: 1 ONE YEAR
FEE: \$4.00 NATIONAL LATIN TEST FEE

Prerequisites: Minimum of "B" average 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: HONORS 9-10-11-12
CREDIT: 1 ONE YEAR
FEE: \$7.00 NATIONAL SPANISH EXAM FEE

Prerequisites: **Freshmen:** Composite scores at or above the 70th percentile on the high school entrance exam; above average grades in elementary school. Department placement required.

Sophomores, Juniors: Minimum of "B" 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: HONORS 9-10-11-12
CREDIT: 1 ONE YEAR
FEE: \$7.00 NATIONAL SPANISH EXAM FEE

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

Sophomores, Juniors, Seniors: Minimum of "C" average 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: HONORS 9-10-11-12
CREDIT: 1 ONE YEAR
FEE: \$7.00 NATIONAL SPANISH EXAM FEE

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

Sophomores, Juniors, Seniors: Minimum of "C" average 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 #355

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

Prerequisites: **Freshmen:** Enrollment in English #111; composite scores of 40th-69th percentile on the high school entrance exam. 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 of "C" average 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 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 of "C" average 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: HONORS 10-11-12

CREDIT: 1 ONE YEAR

FEE: \$7.00 NATIONAL SPANISH EXAM FEE

Prerequisites: Minimum of "C" average 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: ADVANCED PLACEMENT

11-12

CREDIT: 1 ONE YEAR

Prerequisites: **Juniors:** Minimum of "B" average in each category of evaluation in Spanish IV Honors #358 and signature of previous Spanish teacher. **Seniors:** Minimum of "B" average 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 American 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: HONORS 9
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 honors algebra based laboratory course in physics is for the honors math student aiming toward the Chemistry Honors→Honors Biology/AP Biology sequence. This sequence will allow students the background and opportunity for the 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

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.

BIOLOGY H #420

LEVEL: HONORS 10
CREDIT: 1 ONE YEAR

Prerequisite: Percentile of 85 or above in reading on the high school entrance exam. Signature of the Science Department Chair required.

This course is designed to provide information on the fundamental concepts of living organisms. This inquiry-based course covers six unifying principles: organization, interdependence, continuity, development, change and equilibrium. Concepts covered include macromolecules, cells, energy, human body, biotechnology, classification, evolution and ecology. Emphasis is placed on showing the interdependence of structure and function. Students examine and analyze biological problems that surface in today's society. This is a life science course.

BIOLOGY #421

LEVEL: 10
CREDIT: 1 ONE YEAR

Prerequisite: NONE

This course is an introduction to the fundamental concepts of living organisms. With an ecological approach, this course progresses through a study of the fundamental concepts as well as structure and function of cells, microorganisms, plants, animals and the human body. This is a life science course.

ANATOMY AND PHYSIOLOGY #422

LEVEL: HONORS 11-12
CREDIT: 1 ONE YEAR

Prerequisites: Minimum of "B" average in Biology #421 or minimum of "C" average in Biology #420; and minimum of "B" average in Chemistry #431; signature of science teacher needed.

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. This is a life science course.

ASTRONOMY - FALL #423

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

Prerequisite: Completion of Biology and completion or concurrent enrollment in Chemistry; signature of science teacher needed.

This course explores the inner solar system. 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 day and evening observations. This is a physical science course.

**ASTRONOMY - SPRING
#424**

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

Prerequisite: Completion of Biology and completion or concurrent enrollment in Chemistry; signature of science teacher needed.

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. This is a physical science course. It may be taken independently of Fall Astronomy or in conjunction with Fall Astronomy to complete a full year of Astronomy.

**ENVIRONMENTAL
SCIENCE #426**

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

Prerequisites: Completion of Biology and completion or concurrent enrollment in Chemistry; signature of science teacher needed.

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. This is a physical science course.

ZOOLOGY #427

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

Prerequisite: Completion of Biology with "C" or higher; signature of science teacher needed.

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. This is a life science course

PHYSICAL SCIENCE #429

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

Prerequisite: Completion of Algebra I #222 or Algebra I #224 with an average of "B" or concurrent enrollment in junior year math; not open to students who have completed Chemistry #431 or Physics #461; signature of science teacher needed.

This course is a college preparatory course including basic chemistry and physics with emphasis on algebra as used in the study of matter and energy. The laboratory segment of this course serves as a primer for both chemistry and physics laboratory techniques and incorporates the math concepts learned in the classroom. This is a physical science course.

CHEMISTRY H #430

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

Prerequisites: Minimum of "C" average in Honors Biology #420; minimum of "B" average in Honors Algebra I #220 or minimum of "B" average in math for a junior; signature of current science teacher.

This is a laboratory course designed for students needing a thorough background for further work in science. Topics in the course 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. This is a physical science course.

CHEMISTRY #431

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

Prerequisites: Minimum of "C" average in Biology #421; minimum of "C" average in Honors Algebra I #220 or "B" average in Algebra I #222 or minimum of "C" average in Physical Science #429; 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. How each of these aspects affects home products, life cycles, ecology, and the quality of the environment is an important aspect of the course. This is a physical science course.

AP CHEMISTRY #440

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

Prerequisites: Completion of Algebra II #241; minimum of "B" average in Chemistry Honors #430; 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 is a physical science course. This course is designed to prepare students for the Advanced Placement test.

AP BIOLOGY #450

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

Prerequisites: Minimum of "B" average in both Biology #421 and Honors Chemistry #430; signature of current science teacher. 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 is a life science course. This course is designed to prepare students for the Advanced Placement test.

**UPPERCLASSMEN
PHYSICS #460**

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

Prerequisites: Minimum of "C" average in Chemistry Honors #430 or "A" average in Chemistry #431; completion or concurrent enrollment in Algebra II Honors #240 or higher; signature of chemistry teacher; 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. This is a physical science course.

**UPPERCLASSMEN
PHYSICS #461**

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

Prerequisites: Minimum of "C" average in Chemistry #431; completion or concurrent enrollment in Algebra II #241 or higher; signature of chemistry teacher; 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 them to physics. This is a physical science course.

AP PHYSICS #465

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

Prerequisites: Minimum of "B" average in Chemistry Honors #430; minimum of "B" average in Algebra II Honors #240 or concurrent enrollment in Pre-Calculus/Trigonometry #250; signature of chemistry teacher; 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 is a physical science course.

BIOTECHNOLOGY #466

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

Prerequisites: Minimum of "B" average in Biology #421 or completion of Biology #420; minimum of "B" average in Chemistry #431 or completion of Chemistry #430; signature of science teacher needed.

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 the environment will be explored. In addition, students will learn to apply scientific methods of study and concepts through research and hands-on experiments. This is a life science course.

SCIENCE RESEARCH #467

LEVEL: 11-12

CREDIT: 1 ONE YEAR

LAB FEE: STUDENT MAY BE RESPONSIBLE FOR COST OF EXPERIMENTATION

Prerequisites: Completion of two years of science and two years of mathematics; written signature of science teacher needed.

This is a yearlong inquiry-based independent science research class. The primary goal is letting students experience what science is and how science works by engaging in real-life inquiry problem solving. Each student will develop their own research question, conduct research, collect data and publish their findings. 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 their findings. The class will publish an Independent Research Journal with all the research papers.

AP WORLD HISTORY #505

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

Prerequisites: **Sophomores:** "A" average in English I Honors #110 and signature of English teacher
Seniors: "C" average or better in Advanced Placement U.S. History #520; "A" 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 world historical themes including six overarching themes: impact of societal interactions, change and continuity across world history periods, impact of technology and demography, social and gender structures, cultural and intellectual developments, and functions and structures of states. These themes address historical habits of mind or skills (constructing and evaluating arguments, using primary documents and data, assessing change and continuity over time, and handling diversity of interpretations) as well as those that are world historical (global patterns, comparison within and among societies, and understanding of ideas and values). 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: HONORS 9-10
CREDIT: 1 ONE YEAR**

Prerequisites: **Freshmen:** Percentile of 85 or above on the reading and language sections of the high school entrance exam; above average grades in elementary school
Sophomores: "B" average or above in English I Honors #110 and signature of teacher; "A" 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 civilization. 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 #510 or #511

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 #510 or #511

This course introduces the student to the twentieth-century world of international politics and corporations. It focuses on the relationships of individual nations as well as groups of Eastern and Western nations. The course targets on the changing world following the events of World War II.

Problems in economics, health, human rights, nature, and social structures are analyzed, researched, and discussed. The student discovers the underlying causes of these problems in relation to the dawning of this century.

THE HOLOCAUST AND GENOCIDE IN THE MODERN WORLD # 518

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

Prerequisite: "C" 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 20th 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 20th 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.

HISTORY OF CHICAGO #519

LEVEL: 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 skills, time management and problem solving skills.

AP U.S. HISTORY #520

LEVEL: ADVANCED PLACEMENT 11
CREDIT: 1 ONE YEAR

Prerequisite: "C" average or above in AP World History #505 and signature of teacher; "A" 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 document 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: HONORS 11
CREDIT: 1 ONE YEAR

Prerequisite: Minimum of "C" average or above in AP World History #505 and signature of teacher; "C" average or above in Honors World History #510 and signature of teacher; and "A" 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 World War II. 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 #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 AMERICAN GOVERNMENT #535

**LEVEL: ADVANCED PLACEMENT
12**

CREDIT: .5 ONE SEMESTER

Prerequisites: Minimum of a "C" average in AP U.S. History #520 and signature of teacher; or minimum of a "B" 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.

AMERICAN GOVERNMENT #540

LEVEL: HONORS 12

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 American 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.

AMERICAN GOVERNMENT #541

LEVEL: 11 (SEM 2)-12

CREDIT: .5 ONE SEMESTER

Prerequisite: World History #511; at least one semester of U.S. History #533

This course examines the American political system, 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 (Honors) #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 peoples behavior. After completing the course, students will acquire the practical knowledge that can be used to understand, predict and control human behavior.

SOCIOLOGY #547

LEVEL: 11-12

CREDIT: .5 ONE SEMESTER

Prerequisite: World History #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: ADVANCED PLACEMENT

12

CREDIT: 1 ONE YEAR

Prerequisite: "C" average or better in Advanced Placement U.S. History #520 and signature of teacher; "A" 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 several topic papers, 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.

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

Prerequisite: Minimum of "B" average 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.

BUSINESS LAW #731

LEVEL: 11-12
CREDIT: .5 ONE SEMESTER

Prerequisites: NONE

This course is a behavioral science that integrates two comprehensive and important fields of study -- Business and Law. The student is introduced to the nature of law and the evolutionary path that today's law has taken. The course also examines how individuals interact in the modern business world in relation to the guidelines dictated by the Uniform Commercial Code.

FINANCE #734

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

Prerequisites: NONE

This course introduces the student to the money management relationships amongst customers, businesses and government. Areas studied include: career selection/readiness, budgets, investments, savings, installment buying, credit, insurance, financial institutions and taxes.

INTRODUCTION TO COMPUTERS WITH KEYBOARDING #752

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

Prerequisites: None

This course fulfills the computer literacy requirement for all freshmen. Freshmen may elect to take this course during their freshman year, sophomore year or during summer school. Students learn to key alphabetic information, alpha/numeric information and use the keypad.

Emphasis is placed on correct technique, accuracy and speed. The basics of Windows XP are discussed with emphasis placed on vocabulary development. Students acquire skills and knowledge in the use of Word 2003, Excel 2003 and Power Point 2003.

WEB DESIGN #753

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

Prerequisite: Minimum of "C" average in Introduction to Computers #754 or Computer Applications #752 and teacher signature

This course will introduce the student to the design concepts and the various languages and tools used for web page construction and design. The 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.

BUSINESS EDUCATION DEPARTMENT

INTRODUCTION TO COMPUTERS #754

LEVEL: 9-10

CREDIT: .5 ONE SEMESTER

LAB FEE: \$45.00

Prerequisite: Placement Testing*

This course fulfills the computer literacy requirement for all freshmen. Freshmen may elect to take this class during their freshman year or sophomore year.

The basics of Windows XP are discussed with emphasis placed on vocabulary development. Students acquire skills and knowledge in the use of Word 2003, Excel 2003, PowerPoint 2003, Publisher, internet searching and an Integration Project.

* Students must pass a placement test in order for admission to this class.

Students will be expected to key 30 w.p.m. and have a basic knowledge and understanding of Word 2003.

(This placement test will consist of using Office 2003 until Office 2007 or later version is placed on the network.)

ADOBE IN DESIGN CS3 #756

LEVEL: 9-10-11-12

CREDIT: .5 ONE SEMESTER

LAB FEE: \$45.00

Prerequisites: Introduction to Computers #754 with a "C" or above and teacher signature

Adobe In Design 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 create print media such as newsletters, newspapers, posters, brochures, programs and other print media.

BUSINESS MANAGEMENT #757

LEVEL: 10-11-12

CREDIT: .5 ONE SEMESTER

FEE: \$45.00

Prerequisites: NONE

This course provides an excellent background for students pursuing 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 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 the history, geography, politics and policies, cultures, natural resources, labor forces, management, marketing, finance, laws, and risks affecting the world's economy today. It incorporates topics from marketing, finance, business math, business law, entrepreneurship and management courses and combines them into one cohesive course. International business is one of the most important and 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/ HEALTH I #815 (MEN)

LEVEL: 9,10,11,12
CREDIT: .5 SEMESTER ONE

FALL PHYSICAL EDUCATION/ HEALTH I #816 (WOMEN)

LEVEL: 9,10,11,12
CREDIT: .5 SEMESTER ONE

SPRING PHYSICAL EDUCATION/ HEALTH II #824 (MEN)

LEVEL: 9,10,11,12
CREDIT: .5 SEMESTER TWO

SPRING PHYSICAL EDUCATION/ HEALTH II #825 (WOMEN)

LEVEL: 9,10,11,12
CREDIT: .5 SEMESTER TWO

SEMESTER TWO course has a unit of fitness that emphasizes strength training with machines, free weights, and the use of the student's body weight. 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. In the health unit, students will learn the most current information on selected health issues.

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

HEALTH #830

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

Health is a semester course that focuses on personal health, with emphasis on health related topics. Health presents a broad range of topics: CPR, First Aid, Safety Education, drug, alcohol and tobacco use and abuse, human sexuality, mental health and stress, nutrition, healthy relationships and preventing and control of diseases.

PHYSICAL FITNESS #831

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

This is a semester course intended for students and 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 deals with target heart rate training, cardiovascular endurance, muscular endurance, flexibility, aerobics, plyometrics, jump rope, circuit training and core. Three days a week will be strength training and two days a week will be aerobics, flexibility and core. Heart rate monitor is required. This is a semester of conditioning and daily running.

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

INTRODUCTION TO ATHLETIC TRAINING #864

LEVEL: 11-12
CREDIT: .5 SPRING SEMESTER
FEE: \$400.00

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.

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.

HEBREW SCRIPTURES #914

LEVEL: 9
CREDIT: .5 ONE SEMESTER

Prerequisites: NONE

This course examines the rich traditions of Judaism as a basis of the Christian 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 #923

LEVEL: 9-10
CREDIT: .5 ONE SEMESTER

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. An 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 ONE SEMESTER

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.

CONTEMPORARY CHURCH #925

LEVEL: 11
CREDIT: .5 ONE SEMESTER

Prerequisites: NONE

This course helps students understand the development and applications of Catholicism in today's world. Areas of emphasis include investigating how the Church continues the mission given to it by Christ, and investigating how the Church is a world shaping force in civilization. Students are also encouraged to deepen and strengthen their relationship and commitment to God in the context of the community we call Church.

CATHOLIC SOCIAL JUSTICE #935

LEVEL: 11
CREDIT: .5 ONE SEMESTER

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. It is based on the fundamental principle of Catholic Social Teaching/Justice: the Dignity of the Human Person.

THE LIVING CHURCH #936

LEVEL: 11-12
CREDIT: .5 ONE SEMESTER

Prerequisites for **juniors**: May be taken in the second semester of junior year in addition to the required course of Catholic Social Justice.
Prerequisites for **seniors**: May be taken in the first semester of senior year in addition to two other chosen senior electives.

This course brings together the previous 2 ½ -3 years of classroom study and experiences of a Carmel student in the Religious Studies Department. Students practice their study of Scripture, Sacraments, Church, Social Justice/morality, ministerial experiences and spirituality through practical application.

RELIGIOUS STUDIES DEPARTMENT

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: Cumulative 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 1

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 2

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 2009-2010

9th Grade

Fine Arts

- 011 Art I
- 024 Concert Choir

- 025 Treble Choir

- 028 Co-Choir (period Z)

- 029 Carmelaires (period H)

- 030 Parkway Singers (H) (per. Z)
- 054 Concert Band
- 055 Wind Ensemble (H)
- 056 Jazz Band (period Z)
- 057 String Ensemble
- 058 Jazz Combo (H) (period Z)
- 059 Music & World Cult. H (yr)
- 060 Music & World Cult. H (sem)
- 062 Percussion Ensemble (per. H)
- 070 Drama/Theater Tech

English

- 110 English Lit and Language H
- 111 English Lit and Language
- 112 English Lit and Language
- 113 Intro. to Comm. Skills *
- 171 Intro. to Journ. Writing (sem)*
- * (and be enrolled in English)

Mathematics

- 210 Adv. Algebra H
- 220 Algebra I H
- 222 Algebra I
- 224 Algebra I

World Languages

- 310 French I H
- 315 French I
- 340 Latin I H
- 343 Latin I
- 350 Spanish I H
- 355 Spanish I

10th Grade

Fine Arts

- 011 Art I
- 012 Art II
- 016 Ceramics/Sculpture
- 021 Performing Arts Apprec.(sem)

- 022 Beginning Guitar

- 024 Concert Choir

- 025 Treble Choir
- 027 Adv. Choir (H)
- 028 Co-Choir (period Z)
- 029 Carmelaires (period H)
- 030 Parkway Singers (H) (per. Z)
- 054 Concert Band
- 055 Wind Ensemble (H)
- 056 Jazz Band (period Z)
- 057 String Ensemble
- 058 Jazz Combo (H) (period Z)
- 059 Music & World Cult. H (yr)
- 060 Music & World Cult. H (sem)
- 062 Percussion Ensemble (per. H)
- 070 Drama/Theater Tech
- 071 Adv. Drama/Theater Tech
- 072 Theater Tech (sem)

English

- 120 AmLit/Comp H
- 121 AmLit/Comp
- 171 Intro. to Journalistic Writing *
- 172 Journalism *
- 173 Journalism Honors *
- 175 Yearbook *
- * (and be enrolled in English)

Mathematics

- 230 Geometry H
- 231 Geometry
- 232 Geometry
- 248 Programming I H (sem 1)
- 249 Programming II H (sem 2)

World Languages

- 311 French II H
- 316 French II
- 341 Latin II H
- 344 Latin II
- 351 Spanish II H
- 356 Spanish II

11th Grade

Fine Arts

- 011 Art I
- 012 Art II

- 013 Art III
- 016 Ceramics/Sculpture
- 017 Adv. Ceramics/Sculpture
- 021 Performing Arts Apprec.(sem)

- 022 Beginning Guitar

- 024 Concert Choir
- 025 Treble Choir
- 027 Adv. Choir (H)
- 028 Co-Choir (period Z)
- 029 Carmelaires (period H)
- 030 Parkway Singers (H) (per. Z)
- 054 Concert Band
- 055 Wind Ensemble (H)
- 056 Jazz Band (period Z)
- 057 String Ensemble
- 058 Jazz Combo (H) (period Z)
- 059 Music & World Cult. H (yr)
- 060 Music & World Cult. H (sem)
- 061 AP Music Theory

- 062 Percussion Ensemble (per. H)
- 070 Drama/Theater Tech
- 071 Adv Drama/Theat. Tech
- 072 Theater Tech (sem)

English

- 130 British Lit/Comp H
- 131 British Lit/Comp
- 135 AP English Language
- 160 Film Appreciation (sem)
- 162 Creative Writing (sem)
- 163 Speech (sem)
- 171 Intro. to Journalistic Writing *
- 172 Journalism *
- 173 Journalism Honors *
- 175 Yearbook *
- * (and be enrolled in English)

Mathematics

- 240 Algebra II H
- 241 Algebra II
- 242 Adv. Concepts/Pre-Calc
- 245 Topics in Math (yr)
- 248 Programming I H (sem 1)
- 249 Programming II H (sem 2)
- 250 Pre-Calc/Trig H

World Languages

- 312 French III H
- 317 French III
- 342 Latin III H
- 346 Latin IV
- 347 AP Vergil
- 352 Spanish III H
- 357 Spanish III

12th Grade

Fine Arts

- 011 Art I
- 012 Art II

- 013 Art III

- 014 Art IV

- 015 AP Studio Art
- 016 Ceramics/Sculpture
- 017 Adv. Ceramics/Sculpture
- 021 Performing Arts Apprec.(sem)
- 022 Beginning Guitar
- 025 Treble Choir
- 027 Adv. Choir (H)
- 028 Co-Choir (period Z)
- 029 Carmelaires (period H)
- 030 Parkway Singers (H) (per. Z)
- 054 Concert Band
- 055 Wind Ensemble (H)
- 056 Jazz Band (period Z)
- 057 String Ensemble
- 058 Jazz Combo (H) (period Z)
- 059 Music & World Cult. H (yr)
- 060 Music & World Cult. H (sem)

- 061 AP Music Theory
- 062 Percussion Ensemble (per. H)
- 070 Drama/Theater Tech
- 071 Adv Drama/Theat. Tech
- 072 Theater Tech (sem)

English

- 140 World Lit/Comp H
- 141 World Lit/Composition
- 145 AP Literature/Composition
- 160 Film Appreciation (sem)
- 162 Creative Writing (sem)
- 163 Speech (sem)
- 171 Intro. to Journalistic Writing *
- 172 Journalism *
- 173 Journalism Honors*
- 175 Yearbook *
- *(and be enrolled in English)

Mathematics

- 242 Adv. Concepts/Pre-Calc
- 245 Topics in Math
- 246 Pre-Calc Topics & Applic
- 248 Programming I H (sem 1)
- 249 Programming II H (sem 2)
- 250 Pre-Calc/Trig H
- 251 AP Programming
- 252 AP Statistics
- 260 AP Calculus
- 261 Calculus H

World Languages

- 314 AP French Language
- 318 French IV H
- 342 Latin III H
- 346 Latin IV
- 347 AP Vergil
- 358 Spanish IV H
- 359 AP Spanish Language

9th Grade**Science**

410 Physics H
411 Physics

Social Studies

510 World History H
511 World History

Business Education

752 Intro Comp./Keyboarding(sem)
753 Web Design (sem)
754 Intro to Computers (sem)
756 Adobe in Design CS3 (sem)

Physical Education

One credit in Physical Education/Health is required. A student has four years to satisfy the requirement. Courses may be taken in the 9-10-11-12 grades.

815 Fall P.E./Health I (men)
816 Fall P.E./Health I (women)
824 Spring P.E./Health II (men)
825 Spring P.E./Health II (women)
830 Health
831 Physical Fitness

Religious Studies

914 Hebrew Scripture (sem)
923 New Testament (sem)

10th Grade**Science**

420 Biology H
421 Biology
429 Physical Science
430 Chem. H
431 Chemistry
423 Astronomy – Fall (sem)
424 Astronomy – Spring (sem)
426 Environ. Science (sem)
427 Zoology

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)
555 Economics (sem)

Business Education

721 Accounting I
734 Finance (sem)
752 Intro Comp./Keyboarding(sem)
753 Web Design (sem)
754 Intro to Computers (sem)
756 Adobe in Design CS3 (sem)

Religious Studies

923 New Testament (sem)
924 Sacraments (sem)

11th Grade**Science**

422 Anat/Phys H
423 Astronomy - Fall (sem)
424 Astronomy - Spring (sem)
426 Environ. Science (sem)
427 Zoology
429 Physical Science
430 Chem. H
431 Chemistry
440 AP Chemistry
450 AP Biology
460 Physics H
461 Physics
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 History of Chicago (sem)

520 AP US History
530 US History H

533 US History
541 American 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)
753 Web Design (sem)
756 Adobe in Design CS3 (sem)
757 Business Management (sem)
758 International Business (sem)

Religious Studies

925 Cont. Church (sem)
935 Catholic Social Justice (sem)
936 The Living Church (sem 2)

12th Grade**Science**

422 Anat/Phys H
423 Astronomy - Fall (sem)
424 Astronomy - Spring (sem)
426 Environ. Science (sem)
427 Zoology
430 Chem. H
431 Chemistry
440 AP Chemistry
450 AP Biology
460 Physics H
461 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 History of Chicago (sem)
535 AP American Gov. (sem)

540 American Gov. H (sem)

541 American Gov. (sem)
545 Psychology for Life (sem)
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)
753 Web Design (sem)
756 Adobe in Design CS3 (sem)
757 Business Management (sem)
758 International Business (sem)

Religious Studies

936 The Living Church (sem 1)
937 Christian Lifestyles (sem)
939 Comp.World Religions (sem)
941 Women of Faith (sem)
942 Journey to God (sem)
945 Catholic Philosophy H (sem)

Early Dismissal

997 Early Dismissal
998 Early Dismissal



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