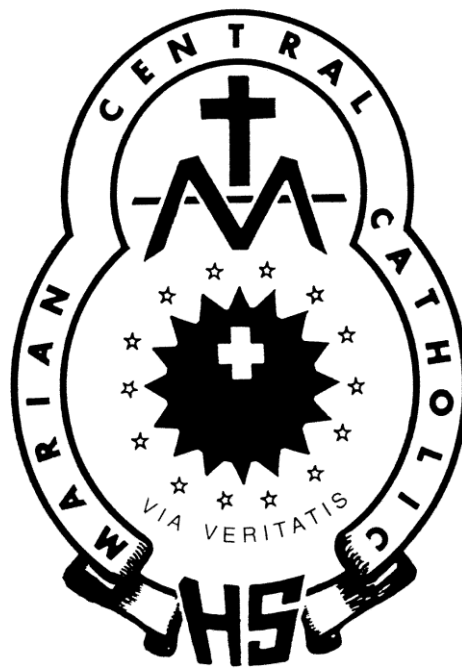


Marian Central Catholic High School



Curriculum Guide 2012-13

NURTURING FAITH ~ IMPARTING KNOWLEDGE ~ INSPIRING ACHIEVEMENT

CURRICULUM GUIDE

2012-13

TABLE OF CONTENTS

COURSE REGISTRATION -----	2
ACADEMIC PROGRAM -----	2
GRADUATION REQUIREMENTS -----	5
COLLEGE BOUND STUDENTS -----	5
DEPARTMENT OFFERINGS	
Art -----	6
Business -----	7
English -----	8
Foreign Language -----	11
Mathematics -----	13
Music -----	16
Physical Education -----	18
Science -----	20
Social Sciences -----	24
Theology -----	27
OTHER SELECTIONS -----	29
INDEX -----	30
PLANNING SHEETS	
Freshmen & Sophomores -----	32
Juniors -----	33
Seniors -----	34

COURSE REGISTRATION

PROCEDURES

1. Use this guide to help plan your courses for the upcoming 2012-13 school year by making tentative course selections.
2. Complete the appropriate planning sheet in this guide and bring it with you when you are scheduled to register.
3. Registration will take place during the month of February.
4. The registration fee is \$250. It is non-refundable. If the fee is paid by February 15th, a 30% discount will be allowed making the amount due \$175.
5. After the registration fee has been paid, students will be scheduled to register with a Guidance Counselor.
6. Due to limited enrollment in some classes, it is advisable to complete registration as early as possible.
7. Incoming Freshmen are required to make a non-refundable tuition down payment in addition to paying the registration fee.

NON-REFUNDABLE FEES

Registration -----	\$250.00 (\$175 if paid by February 15th)
Advanced Placement Course-----	\$95.00
Course Change -----	\$30.00

ACADEMIC PROGRAM

INTRODUCTION

This curriculum guide has been designed to present the educational program that is offered at Marian Central Catholic High School. Marian shares with parents and parishes in the teaching mission of the Church in McHenry County. In light of Gospel values and Catholic beliefs Marian's philosophy encourages students to pursue excellence through the curricular opportunities available.

SCHEDULE PLANNING

Concerned participation of parents, students, and school staff is the key to student success in selecting appropriate courses. Parents who take an active part in helping the student make appropriate choices share with the school staff the responsibility of directing the student toward the program, which will meet his/her optimum needs. The more informed a student becomes, the better she/he will be able to make decisions concerning the future.

Marian's Guidance Department and Administrators will assist students in making appropriate class schedule choices. When planning a program please note that there are courses in the curriculum that are designed for specific levels of instruction and some that demand a certain background in order to perform at an expected level.

Parents and students should keep a record of the number of credits a student has already earned. The semester report card indicates the number of cumulative credits the student has earned. Each student is responsible for making arrangements to make up required courses that s/he has failed. The student's program should include those courses necessary to meet graduation requirements (24 credits) and post-high school career plans.

TIME SCHEDULE

The educational schedule for the school day is divided into seven forty-seven minute class periods.

ACADEMIC ASSISTANCE

Marian Central Catholic High School has high expectations for all students and provides a challenging course of studies with an emphasis on a core curriculum. Within this defined curriculum of regular and honors courses, Marian Central strives to meet the needs of students.

Students in regular courses who may benefit from obtaining additional support to their daily classroom instruction have available to them an assistance program offered through the guidance department. It is not, however, a special education program similar to those found in public schools. To access the academic assistance program, parents or students are to contact a member of the Guidance staff. Students in this program take the required six classes and schedule a study hall as their seventh choice. The students meet with an academic assistance teacher during the study hall.

Students may also obtain help from teachers before or after school by making appointments with the individual teacher. A peer tutoring program is also available for students through the National Honor Society. To access the NHS tutoring program, parents or students are to contact the Guidance Department. Online monitoring of grades is available to all families.

Although we respect the individuality and personal needs of each student, we do so within our curricular standards. Marian Central offers a challenging curriculum that provides students the opportunity to reach their educational goals. Ultimately, however, it is the student's responsibility to put forth the needed effort in order to achieve success in the school's program.

HONORS COURSES

Eligibility for freshman level honors courses is determined by a Selection Committee based upon a qualifying score on the Marian Placement Test, recommendations of the eighth grade teachers, and other relevant test data. Eligibility for sophomore, Junior, and senior level honors courses is determined by the department based upon work habits and past performance. Enrollment in an honors or an advanced placement course is limited due to the nature of the course. Enrollment in these challenging courses is for mature students who have already developed academic responsibility and solid work habits. Students in these rigorous courses should expect extensive assignments and must assume responsibility for daily class participation. Only those students whose skills and past academic records are the strongest in relationship to the available candidates are selected for these advanced courses. The following honors courses are available:

English: English 1-H, English 2-H, English 3-H, English 4-H

Foreign Language: French 3-H, Spanish 3-H, French 4-H, Spanish 4-H

Mathematics: Algebra 1-H, Geometry-H, Algebra 2-H, Advanced Mathematics w/Trigonometry-H, Calculus-H

Music:	Advanced Chorus-H, Advanced Band-H
Science:	Biology 1-H, Chemistry 1-H, Biology 2-H, Chemistry 2-H, Physics-H, Survey of Engineering-H
Social Sciences:	U.S. History-H, U.S. Government and Politics-H

ADVANCED PLACEMENT COURSES

The Advanced Placement Program provides students with the opportunity to pursue college-level studies while still in secondary school to receive advanced placement or credit or both, upon entering college. Eligibility for Advanced Placement courses is determined by the department based upon work habits and past performance. Students who enroll in an advanced placement course are expected to take the advanced placement exam. The College Board charges a fee for each exam taken. As a result, students who enroll in an advanced placement course must pay a \$95 course fee which includes the cost of the exam. The Advanced Placement course fee is to be paid at the time of registration or by March 13th at the latest in order to be scheduled in the course. Advanced Placement courses are offered in the following:

English:	English AP
Mathematics:	Calculus AP, Statistics AP
Social Sciences:	World History AP, U.S. History AP, Psychology AP, U.S. Government and Politics AP
Science:	Chemistry AP

CORRESPONDENCE COURSES

Students who must make up credit take correspondence courses, for the most part. Normally, no more than 2.5 credits through correspondence and/or other approved makeup course work may be counted toward graduation. All correspondence courses must be approved by the Director of Academics prior to enrolling in the course.

GRADE CLASSIFICATION

A student must have earned six units of credit for sophomore standing; twelve units of credit for junior standing, and eighteen units of credit for senior standing.

COURSE CHANGES

After the official class registration in February, final decisions are made as to the number of sections for classes as well as for additional or reduction of staff needs. The Administration makes decisions at this time so that they can locate and hire the most qualified individuals for the staff for the coming school year. Sometimes because of student enrollment patterns, the student's original course selections may need to be altered and new course selections made.

Because scheduling information and staff needs are based on the students' original registration, we discourage students from adding or dropping courses. However, a student who wishes to drop or add a class after registration must contact the Guidance Department. After obtaining permission of the Guidance Director a course may be dropped or added. **The student who is allowed to change a schedule will be assessed a \$30 processing fee for schedule changes made after April 30.**

GRADUATION REQUIREMENTS

CREDITS

Marian Central requires twenty-four (24) credits for graduation:

Credits	Department/Courses
4	English
2	Foreign Language, Art, or Music
3	Mathematics
3	Physical Education/ Health/First Aid
3	Science (Biology included)
2	Social Sciences (Consumer Economics, Government, U. S. History)
4	Theology
3	Electives
24	Total

The minimum course load for each student, each semester is six (6) credits taken at Marian Central. Each student must earn a passing grade in United States History and a Constitution test covering the Federal and State Constitution, the Declaration of Independence, voting procedures and flag etiquette.

All students must successfully complete six credits per year. All required courses plus the three electives that will count toward graduation must first be taken at Marian Central. Additional elective courses may be taken in an approved summer program. Failures in required courses must be repeated and passed in an approved summer program. Failures in elective courses may necessitate the student making up the deficient credits in an approved summer program. A student lacking these requirements will be placed on academic probation and may not be able to continue his/her education at Marian Central.

COLLEGE BOUND STUDENTS

Appropriate academic preparation for college-level studies is important. Students who enter with a strong college preparatory curriculum have a better chance to succeed academically and are more likely to be admitted to the programs of their choice. Most colleges and universities have set these minimum high school requirements for admission of freshmen to public universities:

- 4 credits of English
- 3 or 4 credits of mathematics
- 3 or 4 credits of laboratory sciences
- 3 credits of social sciences
- 2 or 3 credits of the same foreign language, art, or music

ART DEPARTMENT

PHILOSOPHY

The art department exists to stimulate and guide students in their total self-development and growth through the acquisition and utilization of knowledge and skills. Marian's art program strives for excellence through a sound learning process. We endeavor to teach art as a discipline that educates a discipline in which student perception must be used thoroughly to provide immediate awareness, a contact with reality. A good art program must be ever cognizant with the creative process; the continued action and inter-action between the student and his/her art. We recognize that the source of all competent art products must necessarily stem from the imagination. Our goal is teaching the student the necessary skills to effectively transform thoughts and ideas into a concrete expression that shapes, reveals and embodies what is art. Realizing the variety of personalities and abilities, we strive to provide a wide variety of content and media to encourage self-expression, self-development and the appreciation of one's self and others as well as art experiences.

ART 1

Grades: 9 10 11
Credit: 1
Prerequisites: None

Length: Year
Value Scale: Regular

Art 1 is an introduction to the basic fundamentals of art through the study of the elements and principles of design. This course will utilize a variety of materials and techniques for the students who have minimal art experience. Studio area covered: drawing, graphic design, painting, mixed media, sculpture, and pottery.

ART 2

Grades: 10 11 12
Credit: 1
Prerequisites: Art 1

Length: Year
Value Scale: Regular

This sequential course is planned to challenge the students who wish to increase personal skills and knowledge of art. A survey of art history and career choices in the field of art is components of this course. The potter's wheel will also be introduced.

ART 3

Grades: 11 12
Credit: 1
Prerequisites: Art 2 and Departmental determination

Length: Year
Value Scale: Regular

This course is a 2-dimensional art workshop for individual advanced study and college portfolio development. Students will work in their area of special interest in 2-dimensional art, and learn to use the pottery wheel. Emphasis will be placed on the development of individual style and creativity.

ART 4

Grade: 12
Credit: 1
Prerequisites: Art 3 and Departmental determination

Length: Year
Value Scale: Regular

This course is a 3-dimensional art workshop for individual advanced study and college portfolio development. Students will work in their area of special interest in 3-dimensional art as well as in ceramics and sculpture. Emphasis will be placed on the development of techniques and individual style. Students' growth and creativity will be evaluated during the term of the course.

literature study, and note taking. A smaller class size will allow for more individualized attention to the areas of need for each student.

ENGLISH 1

Grade: 9
Credit: 1
Prerequisites: None

Length: Year
Value Scale: Regular

This course presents a study of literary types with an emphasis on short stories, novels, plays and poetry. Students develop an awareness of literary terminology and an appreciation of various writing styles and intents. Writing assignments of varied purposes and lengths will be given. Vocabulary study and grammar skills are integrated into the course.

ENGLISH 1-HONORS

Grade: 9
Credit: 1
Prerequisites: Committee determination
An A each grading period of eighth grade English
Qualifying score on the Marian placement test
Recommendations of eighth grade teachers

Length: Year
Value Scale: Honors

This course offers an in-depth study of various literary forms. Through reading selected pieces, students develop an awareness of literary terms and styles. Enrichment materials will be used to supplement the literature text. A formal vocabulary study and a grammar program, as well as speech activities, are integrated into the course.

ENGLISH 2

Grade: 10
Credit: 1
Prerequisites: English 1

Length: Year
Value Scale: Regular

This course presents a survey of current and classic world literature as a basis for study, discussion, and writing activities. In language study, the course focuses on vocabulary, grammar, and composition.

ENGLISH 2-HONORS

Grade: 10
Credit: 1
Prerequisites: B or higher in English 1 Honors each semester

Length: Year
Value Scale: Honors

This course is a survey of American literature emphasizing reading, analysis and discussion. In language study, the emphasis is on writing critical essays and developing critical thinking skills. This course presents a more challenging vocabulary program and more demanding literary selections.

ENGLISH 3

Grade: 11
Credit: 1
Prerequisites: English 2

Length: Year
Value Scale: Regular

This course presents a survey of American literature as the basis for study and discussion. A vocabulary program and ACT test preparation are part of the course requirements. A variety of writing assignments will be assigned throughout the year. A formal research paper must be satisfactorily completed before course credit will be given.

PUBLICATIONS

Grades: 10 11 12

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: Departmental determination

This elective English course will provide students with the skills necessary to publish the yearbook and the school newspaper. Students will learn the journalistic writing, basic photography skills, computer layout techniques, headline writing, and copy-editing. The styles and techniques of writing editorials, sports articles, news articles, and feature articles will be emphasized. Students will also discuss other various types of media, including film, web, television, and advertising, time permitting. In addition to class work, students will be required to attend after school meetings and activities to meet publication deadlines for both the newspaper and the yearbook. Students in grades 11 and 12 may repeat this course ONLY with leadership expectations and approval from the instructor.

INTRODUCTION TO THEATER

Grades: 9 10 11 12

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: Departmental determination

In this elective English course, students will explore various ways to approach a play as a working script. Students would be given a whirlwind survey of theatre's history and evolution. Students will read several plays throughout the course of the year. Finally, students will be taught the technical aspects of theatrical productions: stage space and maintenance, set design, props, painting techniques, makeup, costumes, lights, sound and even directing and stage management. These lessons will be presented in a theatrical-lab setting where lessons will be hands-on, as well as in theory.

FOREIGN LANGUAGE DEPARTMENT

PHILOSOPHY

The Foreign Language Department at Marian Central Catholic High School believes that a foreign language should stimulate student awareness of different languages and a variety of cultural phenomena. The departmental philosophy is achieved by the following departmental goals that equip students:

- a. to function in the target language and culture,
- b. to use the language for a lifetime of personal enjoyment and enrichment,
- c. to appreciate the role of Hispanic and French cultures in a global context, and
- d. to continue expanding their communicative proficiency for further education or for the workplace.

FRENCH 1

Grades: 9 10 11 12

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: Enrollment in English 1 or above

This course provides an introduction to the French language and to the culture of the French-speaking world. The basic objective of the course is twofold: (1) to help each student attain an acceptable degree of proficiency in the four skills of listening, speaking, reading, and writing, and (2) to present the language within the context of the French-speaking world and its culture.

ALGEBRA 1-A

Grade: 9

Length: Year

Credit: 1

Value Scale: Regular

Prerequisite: Freshmen only

This is the first of a two-year algebra 1 sequence for freshmen that covers basic concepts of addition, subtraction, multiplication, and division in algebra, properties of linear equations and inequalities, absolute value, and operations with polynomials.

ALGEBRA 1-B

Grade: 10

Length: Year

Credit: 1

Value Scale: Regular

Prerequisite: Algebra 1-A

This is the second year of a two-year Algebra 1 sequence for sophomores that covers the factoring of polynomials, operations and applications with rational expressions, graphing lines, systems of equations, and operation with polynomials.

ALGEBRA 1

Grade: 9

Length: Year

Credit: 1

Value Scale: Regular

This is a standard beginning course in Algebra. Topics covered include equations, inequalities, polynomials, algebraic functions, systems of equations, graphing on the number line and coordinate plane, radical expressions, and verbal problems.

ALGEBRA 1-HONORS

Grade: 9

Length: Year

Credit: 1

Value Scale: Honors

Prerequisite: Committee determination

An A each grading period of eighth grade math

Qualifying score on the Marian placement test

Recommendations of eighth grade teachers

Other relevant test data

The material taught in the Algebra 1 course will also be taught in this class with the pace being more accelerated and the expectations greater. The problems covered are more difficult. Additional topics such as quadratic functions and equations and rational exponents are also topics in this course.

GEOMETRY A

Grade: 11

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: Algebra 1B and Departmental determination

The material covered in this course is based on Euclidean Geometry. Students in this class progress at a slower pace in order to assist them in studying segments and angles, congruent triangles, parallel lines, quadrilaterals, similarity, circles, areas, surface area, and volume. Deductive reasoning will be stressed and students will be required to write deductive proofs.

GEOMETRY

Grades: 10 11

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: Algebra 1

CALCULUS-HONORS

Grade: 12

Length: Year

Credit: 1

Value Scale: Honors

Prerequisites: B or higher in previous honors math course each semester and Departmental determination

This course is similar in content to a first semester college calculus course. Limits, derivatives, and applications of derivatives, the definite integral, and applications of the definite integral make up the core of study for this course. Students will learn the “mechanics “ of calculus and then learn how to apply those mechanics in a variety of problem-solving situations. To succeed, students will have to be able to interpret and apply calculus analytically, graphically, numerically, and verbally. A high level of competency in all prerequisite math classes is necessary for success in this class. The pace of this course is quite fast due to the amount of material that needs to be covered. Students must be willing to put in the necessary time to keep up. Students need to realize that they will be studying topics in mathematics that they have never seen before.

CALCULUS ADVANCED PLACEMENT

Grade: 11 12

Length: Year

Credit: 1

Value Scale: AP

Prerequisites: B or higher in previous honors math course each semester and Departmental determination
A score of 63 or above on the math portion of the PSAT

This course is a rigorous exploration of analytical geometry and college calculus specifically designed to provide students with advanced placement opportunities in college mathematics curriculums. This class is structured for students that may have college majors in mathematics, the physical sciences, engineering, and similar disciplines. Topics to be studied include limits, derivatives, integrals and their applications. Students will prepare for the AP exam and should assume considerable responsibility for the extensive work that this course demands.

STATISTICS ADVANCED PLACEMENT

Grades: 12

Length: Year

Credit: 1

Value Scale: AP

Prerequisites: B or higher in Calculus Honors or AP each semester and Departmental determination

This course is designed to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Topics introduced the exploratory analysis of data and numerical techniques to study patterns, methods of valid data collection, probability as the tool for anticipating what distributions of data should look like, and confirming models through statistical inference.

MUSIC DEPARTMENT

PHILOSOPHY

The goal of the Music Department is to develop self-sufficient, independent musicians. By careful instruction, the students must be able to call upon their own sensitivity to create the finest sound possible. Desire, drive, determination, dedication, and self-discipline are important qualities to be developed so those students can experience the satisfaction of performing music well. Individual preparation of music at home is a part of the routine to achieve fine musicianship and rewarding performances. To achieve these goals the music department has developed an aesthetically structured environment with enough flexibility to maintain an individualistic approach to education in music. By adhering to the above all students will experience success.

BAND

Grades: 9 10 11 12 Length: Year
Credit: 1 Value Scale: Regular
Prerequisites: Background in and ability to read instrumental music
Open enrollment for Freshmen
Audition for Sophomores, Juniors, and Seniors
All guitar students must audition

The members of this course make up the Concert, Pep and Jazz Bands. The Concert Band meets daily and performs two major concerts during the school year. All members enrolled in the instrumental music program will have the opportunity to perform varied styles of music. Emphasis will be placed on balance, blend, intonation, counting, scales, proper tone production, breath support, and sight-reading. All members of the Concert Band must participate in the Pep Band. The Pep Band performs for all home varsity football games, as well as some boys' basketball, girls' basketball and volleyball games. Participation in the Illinois High School Association (I.H.S.A.) Spring Solo and Ensemble Festival is strongly encouraged. Upon completion of his/her term in band, each student will possess a more in-depth knowledge of band literature, skill in music reading and interpretation, and practical sight-reading skills.

ADVANCED BAND

Grades: 9 10 11 12 Length: Year
Credit: 1 Value Scale: Regular
Prerequisites: Audition required of all members, strong background in instrumental music

This class is the logical progression from band. This group will perform the most challenging of band literature. This group will perform two major concerts during the year. This group will combine with the members of the concert band for pep band events. The advanced jazz band members are chosen primarily from this group by audition. Members of the pit orchestra for the spring musical are also primarily from this band. Participation in the I.H.S.A. solo and ensemble festival is strongly encouraged, as well as auditioning for the Illinois Music Educators Association (IMEA) honors band. Participation in our Fine Arts Festival is also encouraged.

ADVANCED BAND – HONORS

Grades: 11 12 Length: Year
Credit: 1 Value Scale: Honors
Prerequisites: Juniors: enrolled in band for both freshman and sophomore years
Seniors: enrolled in band for freshman, sophomore and junior years
B or higher in Band each semester

In addition to the regular course requirements for advanced band, a musical project will be required each quarter. Attendance at approved outside-of-school musical performances will also be required. Specific requirements to be provided by the instructor.

CHORUS

Grades: 9 10 11 12 Length: Year
Credit: 1 Value Scale: Regular
Prerequisites: A background in vocal music is helpful, but not required
Open enrollment for incoming Freshmen
Audition required for Sophomores, Juniors, and Seniors

The members of this group make up the Concert Choir. It meets daily and performs two major concerts during the year. All members enrolled in the vocal music program will have the opportunity to perform varied styles of music. Emphasis will be placed on balance, blend, intonation, counting, scales, proper tone production, breath support, proper diction, and sight-reading. All members of the Concert Choir will also participate in the Mass Choir. This group will perform for all of the All School Masses. Marian also offers

Jazz Choir. The Jazz Choir performs pop music with the addition of choreography. Members of this group are chosen by audition. The Madrigal Singers perform music of an Old English flavor with the addition of period costumes. Both of these groups practice before or after school. Membership is also by audition. Participation in the Illinois High School Association (I.H.S.A.) Spring Solo and Ensemble Festival is strongly encouraged. Upon completion of his/her term in chorus, each student will possess a more in-depth knowledge of choral literature, skill in music reading and interpretation, and practical sight-reading skills.

ADVANCED CHORUS

Grades: 9 10 11 12

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: Audition required of all members, strong background in vocal music, ability to read music.

This is a logical progression from concert choir. Members of this group will perform music of a higher degree of difficulty than the choir. Much of this music will be performed a capella and will cover a variety of styles. The group will also perform at the two major concerts during the year. This group will also join the concert choir for the All School Masses. Members will also be able to audition for jazz choir and madrigals. Participation in the IHSA solo and ensemble contest is strongly encouraged, as is auditioning for IMEA.

ADVANCED CHORUS – HONORS

Grades: 11 12

Length: Year

Credit: 1

Value Scale: Honors

Prerequisites: Juniors: enrolled in chorus for both freshman and sophomore years
Seniors: enrolled in chorus for freshman, sophomore and junior years
B or higher in Chorus each semester

In addition to the regular advanced chorus requirements, a musical project will be required each quarter. Attendance at approved outside-of-school musical performances will also be required. Specific requirements to be provided by the instructor.

PHYSICAL EDUCATION DEPARTMENT

PHILOSOPHY

The Physical Education Department is designed as an integral part of the total education at Marian with the goal of helping students become committed toward achieving high levels of health, fitness training, and emergency preparedness. The Physical Education Department promotes physical fitness as a lifetime activity.

PHYSICAL EDUCATION 1

Grade: 9

Length: Semester

Credit: 0.5

Value Scale: Regular

Prerequisites: None

The focus of this course is on personal fitness. Through various activities in the gym, weight room and in health classes, students will be able to develop a personal fitness program. Opportunities for participation in various team sports will also be provided.

HEALTH

Grade: 9

Length: Semester

Credit: 0.5

Value Scale: Regular

Prerequisites: None

STRENGTH TRAINING AND FITNESS 4

Grade: 12

Length: Semester

Credit: 0.5

Value Scale: Regular

Prerequisites: Departmental determination

The emphasis in Strength Training and Fitness 4 will be the continuation of the basic understanding of the structure and function of the human body in relation to specific activities. The student will develop a better knowledge of strength training and attain higher levels of strength. In addition to daily workouts involving both aerobic and anaerobic activities, students will be required to complete weekly reading and written assignments in addition to taking quizzes and tests.

SCIENCE DEPARTMENT

PHILOSOPHY

The philosophy of the Marian Central Science Department encompasses two aims. One aim is to help students become acquainted with scientific facts and with the general ideas that are built upon them. The second aim is to understand what science is, to feel its spirit, to appreciate its methods and to recognize its limitations. Upon this understanding depends one's ability to participate intelligently in the life of our scientific age.

SCIENCE SEQUENCES

Three credits of Science are required; one of which must be Biology

Pattern	Grade 9	Grade 10	Grade 11	Grade 12
1	Gen Sci	Exp Phys Sci	Eco Bio 1	
2	Gen Sci	Phys Sci	Bio 1	Chem 1
3	Phys Sci	Bio 1	Chem 1	Integ Sci
4	Phys Sci	Bio 1	Chem 1	Phys
5	Bio 1-H	Chem 1-H	Chem 2-H or Chem AP	Phys H or Phys H and Survey/Eng
6	Bio 1-H	Chem 1-H	Bio 2-H	Phys H or Phys H and Survey/Eng
7	Bio 1-H	Chem 1-H	Chem 2-H or Chem AP	Bio 2-H

GENERAL SCIENCE

Grade: 9

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: None

This introductory lab and lecture course is designed to provide students with necessary skills for success in future required science courses. Using a laboratory-based program, the student will discover the basic principles of biology, chemistry, and physics, integrated with all the facets of environmental science. General science is a class, which should be taken by students who need the additional preparation for other science courses.

PHYSICAL SCIENCE

Grades: 9 10

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: Freshmen – Concurrent registration in Algebra 1 or Geometry

Sophomores – General Science and concurrent enrollment in Algebra 1B

BIOLOGY 2–HONORS

Grades: 11 12

Length: Year

Credit: 1

Value Scale: Honors

Prerequisites: B or higher in Biology 1-Honors, Chemistry 1-Honors or Chemistry 2 Honors each semester

This elective provides students with the opportunity to do advanced study and gain college level information while still in high school. The course is designed to satisfy the requirements of both those students who plan a college major in the sciences or simply enjoy biological sciences. Previous knowledge is assumed. The following topics will be discussed: molecular biology (macromolecules, DNA, RNA), Mendelian genetics, genetic engineering, and the relationships among the systems found among the organisms as a whole. The fetal pig will be dissected in conjunction with the discussion of mammalian organ systems. The course will be arranged in a manner similar to that which a freshman in college might encounter.

CHEMISTRY 1

Grades: 11 12

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: Biology 1, Algebra 1

Chemistry is a science, which deals with the relationships of matter and energy, and the change matter undergoes to form new and usable products. Some of the topics covered in this first year chemistry course are the structure of atoms and molecules, chemical formulas and equations, physical behavior of gases, properties of atoms and molecules, electrochemistry, and the relationship of chemistry to society and the environment. This course is suitable for students who will not pursue the subject further as well as those who will go on to take college chemistry.

CHEMISTRY 1–HONORS

Grade: 10 11

Length: Year

Credit: 1

Value Scale: Honors

Prerequisites: B or higher in Biology 1-Honors each semester; B or higher in the previous year's honors math course each semester; and concurrent enrollment in an honors math course

Chemistry 1-H is designed for those students with higher than average ability in science and math that may be, but not necessarily considering a career in a science and/or engineering field. Chemistry 1-H differs from Chemistry 1 in that the basic topics are covered in greater depth and in a more quantitative manner.

CHEMISTRY 2–HONORS

Grades: 11 12

Length: Year

Credit: 1

Value Scale: Honors

Prerequisites: B or higher in Chemistry 1-Honors each semester; B or higher in the previous year's honors math course each semester; and concurrent enrollment in an honors math course

Chemistry 2 is an advanced course that builds on topics learned in Chemistry 1 or Chemistry 1-H. It is recommended for students who have a strong interest in science, who want to improve their problem solving and thinking abilities, and who want to develop student skills that will help them prepare for the rigors of college work. Topics covered include an advanced look at the quantitative relationships associated with chemical reactions, ideal and real gas theory, atomic structure, intra- and inter-molecular bonding theories, chemical kinetics and equilibrium, thermodynamics, electrochemistry, acid/base theory and acid/base equilibrium systems. Students taking this course should have a good mathematical background and be motivated to do independent work. Many topics will be taught at an advanced placement level. Laboratory work is an important part of the course and will coordinate with the topics studied.

CHEMISTRY ADVANCED PLACEMENT

Grades: 11 12

Length: Year

Credit: 1

Value Scale: Honors

Prerequisites: A- or higher in Chem 1-H each semester and Departmental determination

This course is designed to be the equivalent of a general chemistry course usually taken during the first year of college. A college-level textbook will be used. Units included will be: A Review of Stoichiometry and Gas Theory; Thermochemistry; Atomic Structure; Intramolecular Bonding; Bonding in Solids and Liquids + Simple Organic Chemistry; Advanced Properties of Solutions; Kinetics; Chemical Equilibrium; Solubility Product Constants; Thermodynamics; Electrochemistry; Simple Acid/Base Theory; Advanced Acid/Base Equilibrium. Included in this program will be additional time for laboratory work. Students will have an extended period two mornings each week to accommodate the required laboratory experiments. Students enrolled in this course should have excellent mathematical and writing skills, be able to and willing to do required independent work and study, and be willing to take the advanced placement test in chemistry given each year in May. Students may earn college credit by doing well on this exam.

INTEGRATED SCIENCE

Grade: 12

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: Physical Science, Biology 1, and Chemistry 1

A laboratory science class designed for those students who possess an average ability in the sciences. Topics of study will include environmental science, meteorology, oceanography, geology, astronomy, as well as, selected current ethical issues in science. This course is designed for those students who are not considering careers in a science or a science related field.

PHYSICS

Grade: 12

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: C or higher in Chemistry 1 and in Algebra 2 each semester and concurrent enrollment in Adv Math w/Trig

The content of Physics is geared to produce a genuine understanding of the physical laws fundamental to all sciences. Topics covered in this course include: methods of science and measurement, force, motion and energy, heat and structure of matter, wave motion, sound and light, electricity, electromagnetism, quantum theory, and nuclear physics. Any student having a fundamental interest in science as well as those considering a career in the science or engineering fields should take physics.

PHYSICS-HONORS

Grade: 12

Length: Year

Credit: 1

Value Scale: Honors

Prerequisites: B or higher in the previous year's honors science course each semester; B or higher in the previous year's honors math course each semester; and concurrent enrollment in an honors math course

Honors physics is a course that covers the fundamental laws of nature at a faster pace and in greater depth than regular physics. The course is divided into three major areas of study: dynamics and mechanics, sound and light wave application, and electricity and magnetism. Specific topics include: force, motion, and energy measurements, wave motion/mechanics, sound and light applications, electricity and electromagnetism, and AC and DC circuitry. Laboratory assignments are given to enhance the theoretical study. Those students who have a good math background and are considering a career in engineering or other science-related field should consider this course.

SURVEY OF ENGINEERING-HONORS

Grade: 12

Length: Year

Credit: 1

Value Scale: Honors

Prerequisites: concurrent enrollment in Physics-H or Departmental determination

Through exploration students will become acquainted with the many disciplines of engineering: aeronautical, chemical, civil, electrical, mechanical, nuclear. Literature research will expand students' knowledge of the diverse fields of engineering. Supporting their research, students will interview college counselors to expand their understanding of what a career in any particular field of engineering actually involves. Hands-on application of practical engineering problems fills out the content of the course. Problem solving experimentation will help students to experience the flow of activities that drive the daily activities of a working engineer. Each student will propose a project idea and from the compiled list of ideas, there will be several chosen to be assigned to small groups of students to pursue.

SOCIAL SCIENCES DEPARTMENT

PHILOSOPHY

The Social Sciences Department is dedicated to the integrated study of the social sciences and humanities in an effort to promote civic competence. Students of social science develop the ability to make informed and reasoned decisions for the public good as citizens of a culturally diverse, democratic society in an interdependent world. The department's course offerings aspire to help students acquire the skills essential to active citizenship in a democratic society, which will enhance their sense of their role in relation to the world. A social sciences education serves as a liberating force in the lives of all citizens, and as such we seek to emphasize the essential connection between understanding of the social sciences, democratic values, and productive citizenship.

SOCIAL SCIENCES SEQUENCES

Required Courses:

Junior Year: U.S. History, U.S. History Honors or U.S. History Advanced Placement; Consumer Economics

Senior Year: U.S. Government and Politics, or U.S. Government and Politics Honors, or U.S. Government and Politics AP

Elective Courses:

Freshmen or Sophomore Year: Geography & World Cultures

Sophomore Year: World History, World History Advanced Placement

Senior Year: Psychology, Psychology Advanced Placement, Sociology, Contemporary Global Studies

GEOGRAPHY & WORLD CULTURES

Grades: 9 10

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: None

We live in an inter-dependent, global community whose well-being depends in part on cross-cultural awareness, communication, cooperation, mutual respect, and understanding. This course emphasizes culture as the key to understanding and appreciating the humanity of diverse peoples through an in-depth study of the regions of Asia, the Middle East, Latin America, and Africa. This study begins with each region's geography followed by an examination of its resources, history, and social conditions. The impact that geographical conditions and historical experiences have on cultures will be examined. Finally the

THEOLOGY DEPARTMENT

PHILOSOPHY

The Theology Department has a threefold mission: to put students in contact with the real person of Jesus Christ; to reinforce his teachings in their minds and hearts; and to prepare them for living his universal call to holiness in the world. These goals are achieved through a college-preparatory curriculum in the classroom and a spiritual formation program offered through the school's liturgies and retreats.

THEOLOGY 1: INTRODUCTION TO CATHOLICISM

Grade: 9
Credit: 1
Prerequisites: Freshman standing

Length: Year
Value Scale: Regular

"Introduction to Catholicism" provides a broad but systematic overview of the basic elements and concepts of the Catholic faith. These elements serve (a) as the foundation on which students will build a sure knowledge of Christ and (b) as the basis for developing an interior, moral life. Elements covered in the curriculum include prayer, the concept of divine revelation, Sacred Scripture, the sacraments, the Ten Commandments and the Beatitudes. In this course, students with no previous Catholic education will learn the terms and concepts necessary for understanding the faith and working within the world of Roman Catholicism. Students with previous Catholic education will find this course to be a systematic review for later, more intensive studies.

THEOLOGY 2: SACRED SCRIPTURE

Grade: 10
Credit: 1
Prerequisites: Sophomore standing

Length: Year
Value Scale: Regular

Equipped with the foundational elements and concepts learned in the "Introduction to Catholicism" course, students can then begin their study of Sacred Scripture. As one of the two means by which divine revelation is known, Sacred Scripture is studied to hear the voice of God, as he reveals himself in the Old and New Testaments, and to respond to his invitation to develop a personal relationship with Jesus Christ. Students will (a) learn how to use and read the Scriptures, both the Old and New Testaments; (b) gain an understanding of the Bible's overarching story (i.e. salvation history) and its ultimate fulfillment in Christ; (c) learn the truths and teachings that Christ entrusted to his Church; and (d) see the Scriptures as integral to personal spiritual growth.

THEOLOGY 3: HISTORY OF THE CHURCH

Grade: 11
Credit: 1
Prerequisites: Junior standing

Length: Year
Value Scale: Regular

Familiarized with the story and teachings of Sacred Scripture, students further develop their understanding by learning the history of the Catholic Church. As the second means by which divine revelation is known, the Tradition of the Church is studied (a) to understand the ecclesial heritage possessed and passed on by believers through the ages to the present day, (b) to encounter Christ's continued saving presence in the world through his Church, and (c) to see the Church's living out of the mission that Christ gave to her: to protect, spread, and deepen her faith in and understanding of the truths taught by Christ in order to make the world more authentically human.

THEOLOGY 4: OUR MORAL LIFE IN CHRIST

Grade: 12

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: Senior standing

Students will learn, in their final year of study, how the knowledge and message of Christ bear on living a moral life in the world today. They will learn to apply the knowledge that they have gained from their study of divine revelation in Scripture and Tradition to contemporary situations in order to determine “God’s perspective” on those issues. Students will then be taught the importance of living a holy, moral life in conformity with the “perspective” in order to achieve their own ultimate, personal happiness. Included in the study of the moral life is a focus on the principles and issues of social justice, which concern the application of moral principles to situations specifically related to society. Also included is a unit on the range of vocations offered to humanity by God, through which people specifically live out their call to holiness and happiness.

THEOLOGY 4: OUR MORAL LIFE IN CHRIST: INTENSIVE STUDY

Grade: 12

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: Senior standing

B or higher each semester of all previous theological studies and/or Departmental determination

Students will study the same material covered in the yearlong Theology 4 course but at an accelerated pace, completing the material in the first semester. The second semester will consist of a seminar-style discussion focused on specialized topics, chosen in consultation with students. A major project and a major field trip are planned in conjunction with this course.

OTHER SELECTIONS

STUDY HALL

Credit: None

Value Scale: None

Prerequisites: None

Study Hall is a structured learning environment where the teacher monitors students’ appropriate use of time. Students are required to come prepared with the needed books and other material required for study. Students who need academic assistance should schedule a study hall in order to meet with the guidance counselor during this period.

ILLINOIS VIRTUAL SCHOOL (IVS) COURSES

Grades: 10 – 12

Length: Varies

Credit: Varies

Value Scale: Not Counted in GPA

Students may enroll in IVS courses with the permission of the Director of Guidance and the Director of Academics & Personnel. Students must first complete and submit the “Online Course Application” available in the Guidance Department. A variety of courses are available. The program of studies can be viewed at: <http://ilvirtual.org/>. Students completing an approved IVS course will: a) receive credit, and b) have the course included on the transcript. The credit will not be included in the student’s class rank or GPA. Guidelines include:

- Course may not replace a course offered at Marian Central
- Course must be an elective
- Course may be taken to make up a failed course
- If taken during the academic year, the student must concurrently be taking a full course load (7 classes) at Marian
- Cost for the course is paid by the student/family

INDEX

Academic Assistance -----	3	English 1-H -----	9
Academic Program -----	2	English 2 -----	9
Accounting 1 -----	7	English 2-H -----	9
Accounting 2 -----	7	English 3 -----	9
Advanced Band -----	17	English 3-H -----	10
Advanced Band-H -----	17	English 4 -----	10
Advanced Chorus -----	18	English 4-H -----	10
Advanced Chorus-H -----	18	English AP -----	10
Advanced Math w/Trig -----	15	Exploring Physical Science -----	21
Advanced Math w/Trig-H -----	15	First Aid -----	19
Advanced Placement -----	4	Foreign Language Department -----	11
Algebra 1A -----	14	French 1 -----	11
Algebra 1B -----	14	French 2 -----	12
Algebra 1 -----	14	French 3-H -----	12
Algebra 1-H -----	14	French 4-H -----	12
Algebra 2 -----	15	General Science -----	20
Algebra 2-H -----	15	Geography & World Cultures -----	24
Art 1 -----	6	Geometry -----	14
Art 2 -----	6	Geometry A -----	14
Art 3 -----	6	Geometry-H -----	15
Art 4 -----	6	Grade Classification -----	4
Art Department -----	6	Graduation Requirements -----	5
Band -----	17	Health -----	18
Biology 1 -----	21	Honors Courses -----	3
Biology 1-H -----	21	Illinois Virtual School -----	29
Biology 2-H -----	22	Index -----	30
Business Department -----	7	Integrated Science -----	23
Business Law -----	8	Introduction -----	2
Business Marketing -----	8	Intro to Desktop Publishing -----	8
Calculator Policy -----	13	Intro to Photoshop -----	7
Calculus H -----	16	Intro to Theater -----	11
Calculus AP -----	16	Intro to Web Design -----	7
Chemistry 1 -----	22	Math Sequences -----	13
Chemistry 1-H -----	22	Mathematics Department -----	13
Chemistry 2-H -----	22	Music Department -----	16
Chemistry AP -----	23	PE Department -----	18
Chorus -----	17	Physical Ed 1 -----	18
College Bound Students -----	5	Physical Ed 2 -----	19
Composition & Speech -----	10	Physical Ed 3 -----	19
Computer Applications -----	7	Physical Ed 4 -----	19
Consumer Economics -----	26	Physical Science -----	20
Contemporary Global Studies -----	27	Physics -----	23
Correspondence Courses -----	4	Physics-H -----	23
Course Changes -----	4	Planning Sheet 9/10 -----	32
Credits -----	5	Planning Sheet 11 -----	33
Ecological Biology -----	21	Planning Sheet 12 -----	34
English Department -----	8		
English 1A -----	8		
English 1 -----	9		

Psychology	-----	27
Psychology AP	-----	27
Publications	-----	11
Registration Procedures & Fees	-----	2
Schedule Planning	-----	2
Science Department	-----	20
Science Sequences	-----	20
Social Sciences Department	-----	24
Social Sciences Sequences	-----	24
Spanish 1	-----	12
Spanish 2	-----	12
Spanish 3-H	-----	13
Spanish 4-H	-----	13
Statistics AP	-----	16
Strength Training and Fitness 3	----	19
Strength Training and Fitness 4	----	20
Study Hall	-----	29
Survey of Engineering	-----	24
Theology Department	-----	28
Theology 1	-----	28
Theology 2	-----	28
Theology 3	-----	28
Theology 4	-----	28
Theology 4 Intensive Study	-----	29
Time Schedule	-----	3
US Government and Politics	-----	26
US Government and Politics-H	----	26
US Government and Politics AP	----	27
United States History	-----	25
United States History Honors	-----	25
United States History AP	-----	26
World History	-----	25
World History AP	-----	25

2012-13 FRESHMAN & SOPHOMORE PLANNING SHEET

FRESHMAN

CHOOSE 5 REQUIRED COURSES

- _____ 201 English 1A
- _____ 202 English 1
- _____ 204 English 1 Honors
- _____ 501 Algebra 1A
- _____ 502 Algebra 1
- _____ 504 Algebra 1 Honors
- _____ 514 Geometry Honors
- _____ 602 PE 1/Health
- _____ 702 Theology 1
- _____ 801 General Science
- _____ 802 Physical Science
- _____ 806 Biology 1 Honors

SOPHOMORE

CHOOSE 5 REQUIRED COURSES

- _____ 206 English 2
- _____ 208 English 2 Honors
- _____ 503 Algebra 1B
- _____ 506 Algebra 2
- _____ 508 Algebra 2 Honors
- _____ 512 Geometry
- _____ 514 Geometry Honors
- _____ 606 PE 2/First Aid
- _____ 704 Theology 2
- _____ 802 Physical Science
- _____ 803 Exp. Physical Science
- _____ 804 Biology 1
- _____ 806 Biology 1 Honors
- _____ 810 Chemistry 1
- _____ 812 Chemistry 1 Honors

CHOOSE 2 ELECTIVE COURSES

- _____ 110 Computer Applications(0.5) – Sem1
- _____ 111 Web Design (0.5)–Sem 2
- _____ 113 Photoshop (0.5)–Sem 2
- _____ 230 Intro to Theater
- _____ 302 Art 1
- _____ 320 Band
- _____ 322 Chorus
- _____ 324 Advanced Band
- _____ 326 Advanced Chorus
- _____ 402 French 1
- _____ 412 Spanish 1
- _____ 904 Geography & Cultures
- _____ 950 Study Hall

CHOOSE 2 ELECTIVE COURSES

- _____ 102 Accounting 1
- _____ 110 Computer Applications(0.5)–Sem1
- _____ 111 Web Design (0.5)–Sem 2
- _____ 112 Desktop Publisher (0.5)–Sem 1
- _____ 113 Photoshop (0.5)–Sem 2
- _____ 114 Business Law (0.5)
- _____ 116 Bus Marketing (0.5)
- _____ 218 Publications
- _____ 230 Intro to Theater
- _____ 302 Art 1
- _____ 304 Art 2
- _____ 320 Band
- _____ 322 Chorus
- _____ 324 Advanced Band
- _____ 326 Advanced Chorus
- _____ 402 French 1
- _____ 404 French 2
- _____ 412 Spanish 1
- _____ 414 Spanish 2
- _____ 904 Geography & Cultures
- _____ 913 World History
- _____ 914 World History AP
- _____ 950 Study Hall

2012-13 JUNIOR PLANNING SHEET

CHOOSE 6 REQUIRED COURSES

_____	210	English 3
_____	212	English 3 Honors
_____	506	Algebra 2
_____	508	Algebra 2 Honors
_____	511	Geometry A
_____	512	Geometry
_____	516	Adv Math w/Trig
_____	518	Adv Math w/Trig Honors
_____	520	Calculus AP
_____	610	PE 3 (0.5)
_____	612	Strength Training and Fitness 3 (0.5)
_____	706	Theology 3
_____	902	Consumer Economics (0.5)
_____	910	United States History
_____	912	United States History Honors
_____	920	United States History AP

CHOOSE 2 ELECTIVE COURSES

_____	102	Accounting 1	_____	402	French 1
_____	103	Accounting 2	_____	404	French 2
_____	110	Computer Applications(0.5)–Sem1	_____	406	French 3 Honors
_____	111	Web Design (0.5)–Sem 2	_____	412	Spanish 1
_____	112	Desktop Publisher (0.5)–Sem1	_____	416	Spanish 3 Honors
_____	113	Photoshop (0.5)–Sem 2	_____	804	Biology 1
_____	114	Business Law (0.5)	_____	805	Ecological Biology
_____	116	Bus. Marketing (0.5)	_____	808	Biology 2 Honors
_____	216	Comp. & Speech	_____	810	Chemistry 1
_____	218	Publications	_____	812	Chemistry 1 Honors
_____	230	Intro to Theater	_____	814	Chemistry 2 Honors
_____	302	Art 1	_____	820	Chemistry AP
_____	304	Art	_____	950	Study Hall
_____	306	Art 3			
_____	320	Band			
_____	322	Chorus			
_____	324	Advanced Band			
_____	325	Advanced Band Honors			
_____	326	Advanced Chorus			
_____	327	Advanced Chorus Honors			

2012-13 SENIOR PLANNING SHEET

CHOOSE 4 REQUIRED CLASSES

_____	214	English 4
_____	215	English 4-H
_____	220	English AP
_____	614	PE 4 (.5)
_____	616	Strength Training and Fitness 4 (0.5)
_____	708	Theology 4
_____	709	Theology 4 Intensive Study
_____	906	United States Government and Politics (0.5)
_____	907	United States Government and Politics Honors (0.5)
_____	922	United States Government and Politics AP (0.5)

CHOOSE 4 ELECTIVE COURSES

_____	102	Accounting 1	_____	416	Spanish 3 Honors
_____	103	Accounting 2	_____	418	Spanish 4 Honors
_____	110	Computer Applications(0.5)–Sem1	_____	506	Algebra 2
_____	111	Web Design (0.5)–Sem 2	_____	516	Adv Math w/Trig
_____	112	Desktop Publisher (0.5) –Sem1	_____	518	Adv Math w/Trig Honors
_____	113	Photoshop (0.5)–Sem 2	_____	519	Calculus Honors
_____	114	Business Law (.5)	_____	520	Calculus AP
_____	116	Bus. Marketing (.5)	_____	530	Statistics AP
_____	216	Comp & Speech	_____	808	Biology 2 Honors
_____	218	Publications	_____	810	Chemistry 1
_____	230	Intro to Theater	_____	814	Chemistry 2 Honors
_____	304	Art 2	_____	820	Chemistry AP
_____	306	Art 3	_____	815	Integrated Science
_____	308	Art 4	_____	816	Physics
_____	320	Band	_____	818	Physics Honors
_____	322	Chorus	_____	830	Survey/Engineering Honors
_____	324	Advanced Band	_____	908	Psychology
_____	325	Advanced Band Honors	_____	918	Contemp. Global Issues
_____	326	Advanced Chorus	_____	921	Psychology AP
_____	327	Advanced Chorus Honors	_____	950	Study Hall
_____	402	French 1			
_____	404	French 2			
_____	406	French 3 Honors			
_____	408	French 4 Honors			
_____	412	Spanish 1			
_____	414	Spanish 2			