

2010-2011
Course Catalog
Bishop McCort
High School



25 Osborne Street
Johnstown, PA 15905

814-536-8991

www.mccort.org

ART

ART APPRECIATION

#9510 **Level: Fr, So, Jr, Sr** **Term: Semester**

Students are introduced to art by studying the history and heritage of art. Students utilize a textbook, slides, posters and magazine booklets and participate in related art projects.

ART I

#9520 **Level: So, Jr, Sr** **Term: Year**

This is a basic art course that develops all art skills in the student. The course starts with two dimensional visual skills in drawing and painting. The introduction of design with fiber arts (e.g. weaving, rug making) projects and the development of three dimensional skills in pottery hand-building are introduced.

ART II

#9530 **Level: Jr, Sr** **Term: Year**

This is an intermediate course that builds on the basic skills that were introduced in Art I. There is also an introduction of new media to allow students more access for expression.

Prerequisite: Art I

ART III

#9535 **Level: Sr** **Term: Year**

Art III is an advanced level course. There is more freedom encouraged in this course. The course is divided into four (4) units. Two and three dimensional methods are used to stress a more in-depth study and new media.

Prerequisite: Art II

ARTS and CRAFTS

#9525 **Level: So, Jr, Sr** **Term: Semester**

This course introduces students to crafts and the related techniques and tools. Projects refer to past art appreciation and the introduction of each project as it relates to art heritage.

A student becomes eligible when all the student's teachers verify in writing that the student's quality point average is 1.8 or higher and that all current subject work is passing. To assure consistency in passing academic performance, the student circulates a second verification paper a week after gaining renewed eligibility. When this second paper shows that all subject work is still passing and the quality point average is 1.8 or better, then the student has fully restored eligibility.

A student who fails a subject must repeat it in summer school if it is offered. When the subject is not a summer school offering and is a graduation requirement, he/she must repeat it the following year.

A student who fails two subjects required for graduation must take one subject in summer school and repeat the other subject the following year. A failed course is to be taken the summer following the reception of the grade. **SENIORS WHO FAIL TWO STATE REQUIRED SUBJECTS MAY NOT TAKE PART IN THE GRADUATION SERVICES.**

A student who fails three or more subjects required for graduation must repeat the entire year and may be asked not to return to Bishop McCort.

CLASS RANK

Cumulative Quality Point Average determines class rank. Cumulative total quality points break ties. The final average at the end of each school year is used in deciding class rank. Beginning with the Class of 2005 only courses taken at Bishop McCort High School will be considered in a student's class average and cumulative average. Courses taken at local schools to make up a failure will be counted toward graduation. Courses taken at local colleges will be noted on a student's transcript but will not be considered part of the average that determines class rank unless the course was not available at Bishop McCort High School.

HONOR ROLL

All students, regardless of course selections, are eligible for the honor rolls. To qualify for the Highest Honor Roll, a student must have a 4.0 QPA. To qualify for the High Honor Roll, a student must have a 3.75 QPA. To qualify for the Honor Roll, a student must have a 3.5 QPA. A failing grade in any subject will disqualify a student for the Honor Roll.

ADVANCED PLACEMENT COURSE

Bishop McCort offers several advanced placement courses. Students enrolled in these courses are given work equivalent to that of college entry-level courses. Students taking AP courses are expected to fulfill all the requirements of the course. This includes taking the AP exam which is administered at an additional cost to the student.

Some of the advanced placement courses as well as the fourth year of some languages may be eligible for college credits through the College in High School Program.

ACADEMIC ELIGIBILITY

A student failing two subjects or carrying a quality point average below a 1.8 at deficiency report time or for a marking period shall not compete, perform, manage or travel with any athletic team, take part in any elective choral or instrumental group or any school or club sponsored field trip.

ACTING

#9600

Level: So, Jr, Sr

Term: Semester

The course introduces students to dramatic communication theory and practice. The course is designed to examine issues of acting and performance and describes tools students may use to approach these challenges. Students will address the four aspects that a performance artist needs to focus on to become a better actor. The student will need to learn playing physically, vocally, imaginatively and emotionally to the audience or director. Students will do this through research, classroom exercises, and on-stage performance.

BUSINESS

ACCOUNTING I

#7530

Level: Jr, Sr

Term: Year

Accounting I presents the complete accounting cycles of a sole proprietorship (service business) and a partnership (merchandising business). The basic objective is to help students acquire accounting knowledge, understanding and skills. The introduction and use of accounting forms and records are featured. All concepts are reinforced by the use of drill and application problems. The course culminates with a complete accounting cycle applied in a business simulation that covers the realistic transactions completed by a partnership.

PERSONAL FINANCE

#7520

Level: Jr, Sr

Term: Semester

Personal Finance covers a variety of topics in the area of employment and income, money management, credit, consumer rights and responsibilities, purchasing goods and services, and economics. Focus is placed on the student's role as a citizen, student, family member, consumer and active participant in the world of work and business. The intent is to inform students of their various economic responsibilities, self-awareness, expression, and advancement in a progressive and highly competitive society.

COMPUTER TECHNOLOGY

INTRODUCTION TO COMPUTERS

#8100 **Level: Fr** **Term: 9 Weeks**

This introductory course is designed to increase a student's comprehension of computer terminology, to prepare a student in the academic application of computer hardware and software in a classroom environment, and improve a student's keyboarding skills to increase production and accuracy in the use of the microcomputer. Students will meet five-days for 40 minutes during a regular 9 week grading cycle.

WORD PROCESSING & DESKTOP PUBLISHING

#8110 **Level: So, Jr, Sr** **Term: Semester**

This introductory course is designed to provide students with fundamental understanding of computers. It familiarizes students with the interaction of computer hardware and software. Emphasis is placed on the application of microcomputers, file management and the use of productivity software Microsoft Word. Social and ethical aspects of the impact of computers on society are also emphasized.

SPREADSHEET & DATA MANAGEMENT

#8120 **Level: So, Jr, Sr** **Term: Semester**

This course familiarizes students with the interaction of computer hardware and software. Emphasis is placed on the application of microcomputers, file management and the use of productivity software Microsoft Excel. Social and ethical aspects of the impact of computers on society are also emphasized.

Prerequisite: Computer Application I

HTML PROGRAMMING

#8130 **Level: Jr, Sr** **Term: Semester**

This intermediate level course is designed to provide students with fundamental understanding of computers and the Internet. It familiarizes students with the interaction of computer software and the programming language of HTML. Emphasis is placed on the application of microcomputers, file management, research techniques and the use of Microsoft Internet Explorer. Students will be required to create a personal web

QUALITY POINT AVERAGE (QPA)

Course levels and grades have assigned weighted quality points. Dividing the total quality points results in the QPA. Note that neither Physical Education grades nor upper level classes that meet less frequently than a total of five times a week are entered into the QPA computation. The QPA is calculated for each quarter and for the final grades.

MAKE-UP WORK

The student is responsible for work missed during absences. The student meets with his/her teachers to get make-up work and take missed tests. Work or test not made up within one week of returning to school become failing marks.

INCOMPLETE GRADE

Except when excused absence continues, a student must complete missed assignments and tests within the week following their return to school. Inactivity on the completion of work results in an automatic grade of 0% for each missed assignment and test.

Unexcused absence will result in a 0% test grade. Incomplete grades at the end of each grading period shall be made up within two weeks or the student will receive a 0% and on finals 0%.

A student wishing to drop a course must do so within the first ten instructional days, after that date he/she will receive a withdrawal failure, WF.

FINAL EXAMS

Final exams are comprehensive exams which evaluate the planned learning results. Teachers use the actual numerical final exam score in calculating the final course average.

All financial obligations must be made and all detentions served before finals can be taken.

Graduation Requirements

Honors Diploma

4.0 Credits Religion
 4.0 Credits English
 4.0 Credits Mathematics
 4.0 Credits Social Studies
 4.0 Credits Science
 3.0 Credits Foreign Language
 0.5 Credit Arts/Humanities
 1.0 Credit Health/Phys Ed
 1.5 Credits Computer Science
 2.0 Credits Electives

28 Total Credits

Academic Diploma

4.0 Credits Religion
 4.0 Credits English
 4.0 Credits Mathematics
 4.0 Credits Social Studies
 4.0 Credits Science
 2.0 Credits Foreign Language
 0.5 Credit Arts/ Humanities
 1.0 Credit Health/Phys Ed
 1.5 Credits Computer Science
 3.0 Credits Electives

28 Total Credits

Students are not permitted to enroll in more than five (5) study halls per week. Students will be placed in a course if they chose not to elect one. Each Bishop McCort student enrolls in a minimum of seven (7) periods of classes each semester. These minimum courses represent class instruction for 36 weeks. Students must have parent permission for the courses that they are taking.

Grading System

The grading system at Bishop McCort High School uses course credits, grades and quality points as displayed below:

Grades	Quality Points		
	AP	Honors	Academic
A 99-93	5.0	4.5	4.0
B 93-85	4.0	3.5	3.0
C 84-75	3.0	2.5	2.0
D 74-70	1.0	1.0	1.0
F 69-60	0.0	0.0	0.0

page. Social and ethical aspects of the impact of the Internet on society are also emphasized.

Prerequisite: Word Processing/Desktop Publishing and Spreadsheet & Data Management

ADVANCED MICROCOMPUTER

#8140

Level: Jr, Sr

Term: Semester

This intermediate level course is designed to provide students with fundamental understandings of specialized computer application software. It familiarizes students with the interaction of computer hardware and software. Emphasis is placed on the application of microcomputers, desktop publishing (Microsoft Publisher), graphics presentation (Powerpoint) and data base management (Access). Social and ethical aspects of the impact of the Internet on society are also emphasized.

Prerequisite: Word Processing/Desktop Publishing and Spreadsheet & Data Management

ADOBE PHOTO SHOP MULTI MEDIA

#8160

Level: Jr, Sr

Term: Semester

Intermediate level course focus on teaching student the fundamentals of designing for multi-media web pages, graphic design, image manipulation. Emphasis is placed on student's actual operation of this Multi-Media application (Adobe Photoshop CS2).

ENGLISH

ENGLISH 9

#2110

Level: Fr

Term: Year

This English course is designed to improve the student's understanding of the basic components of grammar, to aid in the development of composition skills, to develop speaking and listening skills and to promote an appreciation of literature and its forms. Portfolio and research writing is required.

Prerequisite: Eighth grade teacher recommendation and standardized test scores

ACADEMIC ENGLISH 9

#2120

Level: Fr

Term: Year

This English course is designed to improve the student's understanding

of the basic to higher components of grammar, to improve basics of composition skills, to develop speaking and listening skills and to promote an appreciation of literature and its forms. Portfolio and research writing is required.

Prerequisite: Eighth grade teacher recommendation and standardized test scores

HONORS ENGLISH 9

#2150

Level: Fr

Term: Year

This English course is designed to improve the student's understanding of the advanced components of grammar, to perfect composition skills, and to develop speaking and listening skills and to promote in-depth understanding of literature with its forms and techniques. Portfolio and research writing is required.

Prerequisite: Eighth grade teacher recommendation and standardized test scores are required. Students should have an above average knowledge of the basics of grammar and above average competency in reading, writing and vocabulary skills. Students must maintain an 85% average for the year.

*All English course selections differ in the instructional methods of the teachers who adapt the curriculum to the needs of the students enrolled in the course.

READING LAB 89

#1940

Level: Fr, So, Jr, Sr

Term: Year

This full year course is geared to help foster better reading habits for students, grades 9 to 12, whose reading achievement is not yet at level expectancy. Formal and informal reading diagnosis will be implemented individually. Students will be scheduled two to three times a week. Activities will be centered around areas of weaknesses in comprehension and vocabulary skills. There is also an attempt for the student to develop better work skills, study habits, and more accurate listening.

ENGLISH 10

#2210

Level: So

Term: Year

This English course is designed to improve the student's understanding of the basic components of grammar, to aid in the development of composition skills, to develop speaking and listening skills and to promote an appreciation of literature and its forms.

SOCIOLOGY

#3420

Level: Jr, Sr

Term: Semester

This course is an introduction into the growing field of Sociology. Students will analyze selected social issues in the world, their origins and efforts to comprehend and critically evaluate global societies. Students will study theoretical perspectives to better understand such societies and cultures.

THE WORLD SINCE 1945

#3500

Level: Jr, Sr

Term: Semester

The World Since 1945 is a semester course designed to examine the complex, social, political and economic world that emerged from the ashes of World War II. The course follows a regional approach including Europe, North America, Latin America, Asia, Africa, and the Middle East looking at how the Cold War rivalry between the United States and the Soviet Union dominated geopolitics in these regions from 1945-1991. A great emphasis will be placed on current events, in particular the rise of economic globalization, cultural clashes throughout the world and what role the United States should play in international affairs as the world's lone remaining superpower.

UNITED STATES HISTORY

#3300

Level: Jr

Term: Year

This course provides an in-depth study of the United States from colonial times through much of the 20th Century. Current events topics also supplement the course study. An emphasis is placed on several themes of American History including political structure, expansion, innovation, conflicts and cultural changes. Special note is taken of the role of local and Pennsylvania history in the development of our nation.

HONORS UNITED STATES HISTORY

#3350

Level: Jr

Term: Year

This course provides an in-depth study of the history of the United States from colonial times through much of the 20th Century. This course provides students the opportunity to observe, analyze, and contrast American History through the use of primary sources, current events projects, and historical novels. Honors United States History is designed to challenge students with a variety of critical thinking assignments.

Prerequisite: An A average in World History and teacher recommendation

AMERICAN GOVERNMENT/ECONOMICS

#3400

GOVERNMENT

Level: Sr

Term: Semester

American Government provides students with a comprehensive study of all levels of government in the United States. It is designed to help students develop an understanding of the processes of government and acquire a sense of citizenship as participants in a democratic society.

ECONOMICS

Term: Semester

The course provides students with a basic understanding of the principles of economics and the general operation of the American Economic System. Special emphasis is given to exposing students to their roles as consumers and producers in an ever changing society. The course is designed to lay a foundation for students to make better economic decisions.

Prerequisite: English 9 and teacher recommendation

ACADEMIC ENGLISH 10

#2220

Level: So

Term: Year

This English course is designed to improve the student's understanding of the basic to higher components of grammar, to aid in the development composition skills, to develop speaking and listening skills and to promote an appreciation of literature and its forms. Portfolio and research writing is required.

Prerequisite: English 9 or Academic English 9 and teacher recommendation

HONORS ENGLISH 10

#2250

Level: So

Term: Year

The Honors English 10 course is designed to improve the student's understanding of the advanced components of grammar, to perfect composition skills, and to promote an in-depth understanding of literature with its forms and techniques. Portfolio and research writing is required.

Prerequisite: Honors English 9, concurrent enrollment in Paragraph Writing and teacher recommendation are required. Students must maintain an 85% average for the year.

PARAGRAPH WRITING

#2240

Level: So, Jr, Sr

Term: Semester

Paragraph Writing is designed to give students the necessary skills to develop a paragraph as a unit of thought that has purpose, is logical, interesting and mechanically correct. This course is required of Honors English 10 students and can be an elective for other students. Portfolio assignments are required.

Prerequisite: Teacher recommendation

ENGLISH 11

#2310

Level: Jr

Term: Year

This survey course of American literature covers literature from the Colonial Period through Modern Literature. Selections include short stories, poetry, drama and novels. Various compositions, portfolio assignments, the persuasive essay and the research paper are required as well as other supplementary materials presented in class.

Prerequisite: English 10 and teacher recommendation

ACADEMIC ENGLISH 11

#2320

Level: Jr**Term: Year**

This survey course of American literature covers literature from the Colonial Period through Modern Literature. Selections include short stories, poetry, drama, and novels. Various compositions, portfolio assignments, the persuasive essay and the research paper are required as well as other supplementary materials presented in class.

Prerequisite: English 10 or Academic English and teacher recommendation

HONORS ENGLISH 11

#2350

Level: Jr**Term: Year**

This survey course of American Literature covers literature from the Colonial Period through Modern Literature. Selections may include short stories, poetry, drama and novel. Various compositions, portfolio assignments, the essay of examples and the research paper are required as well as other supplementary materials presented in class.

Prerequisite: Honors English 10, Paragraph Writing, concurrent enrollment in Essay Writing and teacher recommendation are required. Students must maintain an 85% average for the year.

ESSAY WRITING

#2340

Level: Jr., Sr**Term: Year**

Essay Writing presents a practical application of expository, narrative and descriptive writing. Both vocabulary and the mechanics of writing are incorporated in all writing assignments. This course is required of Honors English 11 students and can be an elective for other students.

Portfolio assignments are required.

Prerequisite: Paragraph Writing and teacher recommendation

ENGLISH 12

#2410

Level: Sr**Term: Year**

This course is a chronological study of British literature from the Anglo-Saxon Period through Modern Literature. Throughout the literary study, students will expand and utilize increased vocabulary, identify various

SOCIAL STUDIES**WORLD GEOGRAPHY**

#3100

Level: Fr**Term: Year**

This course is designed to introduce students to the present world. Included in the instructions are the map-continent areas of Europe, Middle East, Asia, Africa, Latin America and North America. Provided with a variety of individual maps, each student will locate and study 190 world countries and geographic facts for each country. At the conclusion of this course, students will have a solid foundation in the present day world for future social studies courses.

ACADEMIC WORLD HISTORY

#3200

Level: So**Term: Year**

World History is a one year course that presents the achievements of people throughout the world since ancient times. Using a chronological approach, the students examine civilization's birthplace, the period of the Middle Ages and contemporary history. Political, cultural and socio-economic aspects of the development of people are studied. World History provides a comprehensive perspective of the forces that make the past relate to the future.

HONORS WORLD HISTORY

#3250

Level: So**Term: Year**

Honors World History presents the achievements of people throughout the world since ancient times. Using a chronological approach, the students examine civilization's birthplace, the period of the Middle Ages and contemporary history. Political, cultural and social-economic aspects of the development of people are studied. This course provides a comprehensive perspective of the forces that make the past relevant to the present. A more comprehensive test, cooperative projects, short papers and independent research enhance the course for the honor student who has demonstrated social studies proficiency.

Prerequisite: Teacher recommendation

organic chemistry and electrochemistry. Upon completion of this course, the students will take the Advanced Placement Chemistry Exam and may apply for the College in High School Program in order to earn college credit.

Prerequisite: Completion of Algebra II with 85% or higher. Completion of Honors Chemistry II with 90% or higher.

ADVANCED PLACEMENT PHYSICS C

#6760

Level: Sr

Term: Year

This course forms the first part of the college sequence as the foundation in Physics for students majoring in physical sciences or engineering. The course places strong emphasis on solving a variety of challenging problems, some requiring calculus. There is an emphasis on analysis in the laboratory as well as in the classroom. Topics to be studied are: motion in three dimensions; linear, rotational and fluid mechanics, and thermodynamics. Upon completion of this course, the students will take the Advanced Placement Physics C Exam and may apply for College in High School Program in order to earn college credit.

Prerequisite:

- 1) Completion of Honors Physics with a minimum grade of B
- 2) Completion of Honors Pre-Calculus with a minimum grade B **or** completion of Honors Trigonometry with a minimum grade B.

Co-requisite:

- 1) Current enrollment in Advanced Placement Calculus **or** Honors Calculus

ASTRONOMY & GEOLOGY

#6800

Level: Sr

Term: Year

This introductory course will explore Geology and Astronomy. Geology is the science that deals with the dynamics and physical history of the earth, the rocks of which it is composed, and the physical, chemical, and biological changes that the earth has undergone or is undergoing. Astronomy is the scientific study of matter in outer space, especially the positions, dimensions, distribution, motion, composition of energy and the evolution of celestial bodies. The course will give the students a background for earth and space sciences and also will enhance their knowledge applicable to the sciences.

literary devices used in writing, discuss and analyze in-depth meaning, improve reading skills and comprehension and improve reading and writing skills. Selections include poetry, drama, essays, short stories, and novels. Satisfactory completion of the research paper is a graduation requirement.

Prerequisite: English 11 and teacher recommendation

ACADEMIC ENGLISH 12

#2420

Level: Sr

Term: Year

This course is a chronological survey of British literature from the Anglo-Saxon Period through Modern Literature. Throughout the literary study, students will expand and utilize increased vocabulary, identify various literary devices used in writing, discuss and analyze in-depth meaning, improve reading skills and comprehension and improve reading and writing skills. Satisfactory completion of a research paper is a requirement for graduation.

Prerequisite: English 11 or Academic English and teacher recommendation

HONORS ENGLISH 12

#2450

Level: Sr

Term: Year

This course is a chronological study of British literature from the Anglo-Saxon Period through Modern Literature. Throughout the literary study, students will expand and utilize increased vocabulary, identify various literary devices used in writing, discuss and analyze in-depth meaning, improve reading skills and comprehension and improve reading and writing skills. Satisfactory completion of a research paper is a requirement for graduation.

Prerequisite: Honors English 11, The Essay and teacher recommendation are required. Students must have maintained an 85% in Honors English 11.

ADVANCED PLACEMENT ENGLISH

#2460 **Level: Sr** **Term: Year**

The course emphasizes the development of skills in critical reading of imaginative and discursive literature and in writing about literature and related ideas. Upon completion of this course, the students will take the Advanced Placement English Exam and may apply for the College in High School Program to earn college credit.

Prerequisite: Honors English 11, The Essay and teacher recommendation are required. Students must have maintained an 85% in Honors English 11 and Essay.

CREATIVE WRITING

#2800 **Level: Jr, Sr** **Term: Semester**

Creative writing is an elective course designed to explore writing possibilities through a variety of genres. The course is designed for those with an interest in developing their writing skills. Creative writing is conducted in a workshop setting with emphasis on self-evaluation.

Prerequisite: Teacher recommendation

PUBLIC SPEAKING

#2700 **Level: So, Jr, Sr** **Term: Semester**

This class will cover some of the various types of speeches commonly required in school, job, business settings and everyday applications. Students will formally present a speech of introduction, an informative speech, a demonstration speech and a persuasive speech all of which include the incorporation of visual aids.

Prerequisite: Teacher recommendation

YEARBOOK

#2910 **Level: Jr, Sr** **Term: Year**

This class allows time during the school day for the moderator and yearbook staff to work on the yearbook. This period is allotted to planning, organizing, proofreading and editing the yearbook. This class is graded as Pass/Fail.

Prerequisite: Teacher recommendation

JOURNALISM

#2850 **Level: So, Jr, Sr** **Term: Semester**

Journalism is an elective course designed to teach the various types of writing that are frequently found in a local or school newspaper. Students will be responsible for writing and editing their articles. The goal of the course is to have one's article/s appear in the school newspaper.

Prerequisite: Teacher recommendation

Prerequisite: Completion of Honors Chemistry I with 85% or higher and teacher recommendation. Completion of Algebra II with 85% or higher

ADVANCED PLACEMENT BIOLOGY

#6450 **Level: Jr, Sr** **Term: Year**

The AP Biology course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. AP Biology should include college level topics such as Molecules and Cells, Heredity and Evolution, Organisms and Populations. However, a biology course has more structure and meaning when the key concepts for each topic are placed in the broader context of unifying themes. Thus emphasis will be placed more on the concepts and themes of biology and will place less weight on specific facts.

The textbooks used for AP Biology are those used by college biology majors. The kinds of labs done by AP students must be the equivalent of those done by college students. The course will include two double periods per week to accommodate the range and depth of topics covered and the time and effort required of students.

After showing themselves to be qualified on the AP examination, they may also purchase credits from Seton Hill University, some students, as college freshmen, are permitted to undertake upper-level courses in biology or to register for courses for which biology is a prerequisite. Other students may have fulfilled a basic requirement for a laboratory-science course and will be able to undertake other courses to pursue their majors.

The AP course is designed to be taken by students after the successful completion of a first course in high school biology and one in high school chemistry. It aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology.

ADVANCED PLACEMENT CHEMISTRY

#6660 **Level: Sr** **Term: Year**

The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first year of college. Two double periods per week allow for advanced laboratory work (including qualitative and quantitative analyses) and development of problem-solving ability. Topics include bonding and the VSEPR theory of molecular structure, thermodynamics, kinetics, equilibriums, acid-base theories,

ACADEMIC ANATOMY and PHYSIOLOGY

#6310 **Level: Jr, Sr** **Term: Year**

This is an introductory course in anatomy and physiology and is designed to provide a basic understanding and working knowledge of the human body.

Prerequisite: Successful completion of biology and chemistry

HONORS ANATOMY and PHYSIOLOGY

#6350 **Level: Jr, Sr** **Term: Year**

This course is designed to provide accurate, current information about the structure and function of the human body at a pace and level especially planned for students intending to pursue a health related field at college level. The class will also include many pedagogical devices to increase student involvement in the learning process, stimulate interest in subject matter and help them relate their classroom knowledge to everyday life.

Prerequisite: Biology and Chemistry

HONORS BIOLOGY II

#6430 **Level: Jr, Sr** **Term: Year**

Biology II is a continuation of Biology I with an emphasis on the more abstract concepts. Topics include cell and molecular biology, basic organic chemistry, molecular genetics and plant physiology.

Prerequisite: Successful completion of chemistry.

Recommended : Successful completion of Physiology

HONORS CHEMISTRY II

#6550 **Level: Jr, Sr** **Term: Year**

This Honors Chemistry II course is designed to further the student's understanding of chemical principles and behavior as developed in Honors Chemistry I. Atomic and molecular structure, chemical reactions and stoichiometry are reviewed and expanded. Further topics include descriptive chemistry, oxidation, reduction reactions, gas laws, solutions, thermo chemistry, equilibria, kinetics, acid-base behavior, organic chemistry and nuclear chemistry. One double-length laboratory period is included per week.

NEWSPAPER

#2900 **Level: So, Jr, Sr** **Term: Semester/Year**

Newspaper is an elective course designed to reinforce and master the various types of writing that were taught in Journalism and are frequently found in a local or school newspaper. Students will be responsible for writing, planning, editing and distributing the school paper.

Prerequisite: Teacher recommendation, Journalism or prior publication of articles for the paper is a prerequisite of Newspaper.

SUMMER READING PROGRAM

Students are expected to read at least two books over the summer. All students are given a reading list in the spring that indicates which books they will be reading. Standardized tests are administered during the first few weeks of the fall semester. The test grade is part of the first quarter English grade. Advanced Placement students have different requirements.

FOREIGN LANGUAGE

INTRODUCTION TO LANGUAGE THROUGH READING

#1930 **Level: Fr** **Term: Year**

This full year course is required for freshmen who are not enrolled in a first year foreign language. Formal and informal reading diagnosis will be implemented individually. The class will meet five times a week. Students will practice strategies for developing comprehension, vocabulary, improving reading rate, organizational and study skills, test taking, writing, and improving content area reading skills. The desired outcome of this course is to increase student reading abilities to the highest level possible. In so doing, the student can actively participate in a first year foreign language class at the beginning of the sophomore year. Reading for information and pleasure is a reasonable objective of this course.

ACADEMIC FRENCH I

#4200 **Level: Fr, So, Jr, Sr** **Term: Year**

This course is designed to introduce the language skills of listening, speaking, reading and writing, with an emphasis on basic sentence structure and language patterns. The student becomes familiar with all the geographical areas in the world in which French is spoken.

Prerequisite: Average reading Level

ACADEMIC FRENCH II

#4220 **Level: So, Jr, Sr** **Term: Year**

This course enhances the first year fundamentals, adds more detailed grammar patterns and vocabulary words, and further develops the four language skills. French cultural traditions are introduced and discussed. The completion of the level II French course fulfills the high school graduation requirement. It provides a sound base for future language study.

Prerequisite: French I and teacher recommendation

HONORS FRENCH III

#4250 **Level: Jr, Sr** **Term: Year**

This honors course hones the student's proficiency in the structure of French and that of English, places a greater emphasis on reading and writing with more detail, and may increase SAT word recognition. Pertinent historical background and events are featured.

Prerequisite: French II and teacher recommendation

HONORS FRENCH IV

#4255 **Level: Sr** **Term: Year**

This fourth year honors course helps each student attain an acceptable degree of proficiency and enables the student to obtain college credits in high school, if so desired. Individuals who have made an impact in the French world of arts, letters, history and science are studied. Advanced grammar, more complex sentence structure, improved reading, writing, and speaking skills are the aim of this fourth level.

Prerequisite: French III and teacher recommendation

GERMAN I

#4100 **Level: Fr, So, Jr, Sr** **Term: Year**

This course is designed to introduce the language skills of listening, speaking, reading and writing with an emphasis on basic sentence structure and language patterns. The student becomes familiar with all the geographical areas in the world in which German is spoken.

course to apply the established chemistry vocabulary and problem solving techniques learned in the laboratory to everyday life. The emphasis on problem solving and the mathematical formulation of principles is stressed. The course will provide the students with a background for successive chemistry courses and will enhance their knowledge for other sciences.

Prerequisite: Algebra and Biology

ACADEMIC PHYSICS

#6410 **Level: Jr, Sr** **Term: Year**

Academic physics qualitatively ties the student's personal experience in every day life to physics' principles. Topics include motion, linear, rotational and fluid mechanics, harmonic motion, heat and thermodynamics.

Prerequisite:

- 1) Successful completion of Geometry with a minimum grade C
- 2) Successful completion of Algebra II with a minimum grade C

Co-requisite: Current enrollment in Academic Trigonometry

HONORS PHYSICS

#6650 **Level: Jr, Sr** **Term: Year**

This course is designed to be a one-year, non-calculus introductory course in physics. The emphasis is on basic physical ideas and how they are manifested in the world around us, both in nature and technology. Emphasis is placed on quantitative (problem-solving) exercises as well as qualitative understanding. Topics include motion, linear, rotational and fluid mechanics, harmonic motion, heat and thermodynamics.

Prerequisite:

Successful completion of Honors Algebra II / Trigonometry with a minimum grade C or successful completion of Honors Trigonometry with a minimum grade C or successful completion of Honors Pre-Calculus with a minimum grade C.

Co-requisite:

Current enrollment in Honors Pre-Calculus, Honors Calculus or Advanced Placement Calculus.

HONORS BIOLOGY I**#6150** **Level: Fr** **Term: Year**

This course is an introduction to the concrete concepts of Biology. Topics include Ecology and Environmental concerns that impact our society, Mendeleian, Genetics, classification and the diversity of living things.

ENVIRONMENTAL SCIENCE**#6210** **Level: So** **Term: Year**

This course is designed to introduce students to major ecological concepts and the environmental problems which affect the world in which they live. Students will discover how the components of our ecosystem contribute to our health, our well being and potential for growth.

ACADEMIC CHEMISTRY I**#6220** **Level: So, Jr, Sr** **Term: Year**

This course will familiarize the student with the major principles of chemistry. It is primarily a descriptive course geared for students to pursue a supplemental science field in college or in a medical field. Not all chemistry topics are covered and mastered in this course.

Prerequisite: Algebra I and Biology

CHEMISTRY**#6510** **Level: Jr** **Term: Year**

This class will look at the definition of Chemistry as the central science that deals with the material of the universe and the changes that these materials undergo. As we proceed we will see how the concepts of chemistry allow us to understand the nature of these changes. This class will not involve as many math concepts as Academic Chemistry.

Prerequisite: Biology and Environmental Science

HONORS CHEMISTRY I**#6250** **Level: So, Jr, Sr** **Term: Year**

The Honors Chemistry course is organized around a central theme: the properties of matter are a consequence of its structure. This course is designed to be a qualitative and quantitative course with the emphasis on problem solving. The development of critical thinking and expressing ideas orally and in writing will be encouraged. It is the objective of this

Prerequisite: Average reading Level

GERMAN II**#4120** **Level: So, Jr, Sr** **Term: Year**

This course enhances the first year fundamentals, adds more detailed grammar patterns and vocabulary words and further develops the four language skills. German cultural traditions are introduced and discussed. The completion of the level II German course fulfills the high school graduation requirement. It provides a sound base for further language study.

Prerequisite: German I and teacher recommendation

HONORS GERMAN III**#4150** **Level: Jr, Sr** **Term: Year**

This honors course hones the student's proficiency in German, offers additional grammar comparisons between English and German, places a greater emphasis on reading and writing with more detail on the target language and may increase SAT word recognition. Pertinent historical background and events are featured.

Prerequisite: German II and teacher recommendation

HONORS GERMAN IV**#4155** **Level: Sr** **Term: Year**

The fourth year honors course helps each student attain an acceptable degree of proficiency in preparation for college level courses. An extensive study of the historical events that led to the years of the Holocaust is examined. Individuals who have made an impact in the German world of arts, letters, history and science are studied.

Prerequisite: German III and teacher recommendation

SPANISH I

#4300 **Level: Fr, So, Jr, Sr** **Term: Year**

This course is designed to introduce the language skills of listening, speaking, reading, and writing with an emphasis on basic sentence structure and language patterns. The student becomes familiar with all the geographical areas in the world in which Spanish is spoken.

Prerequisite: Average reading level

SPANISH II

#4320 **Level: Fr, So, Jr, Sr** **Term: Year**

This course enhances the first year fundamentals, adds more detailed grammar patterns and vocabulary words, and further develops the four language skills. Spanish cultural traditions are introduced and discussed. The completion of the Level II Spanish course fulfills the high school graduation requirement. It provides a sound base for further language study. Upon completion of the first semester of Spanish II, the student is eligible for induction into the Spanish Honor Society.

Prerequisite: Spanish I and teacher recommendation

HONORS SPANISH III

#4350 **Level: Jr, Sr** **Term: Year**

This honors course hones the student's proficiency in Spanish, offers additional grammar comparisons between the structure of Spanish and that of English, places a greater emphasis on reading and writing with more detail, and may increase SAT word recognition. Pertinent historical background and events are featured.

Prerequisite: Spanish II and teacher recommendation

HONORS SPANISH IV

#4355 **Level: Jr, Sr** **Term: Year**

This fourth year honors course helps each student attain an acceptable degree of proficiency and enables the student to obtain college credits in high school, if so desired. Individuals who have made an impact in the Spanish world of art, letters, history and science are studied. Advanced grammar, more complex sentence structure, improved reading, writing, and speaking skills are the aim of this fourth level.

Prerequisite: Spanish III and teacher recommendation

as well as morality related to current issues impacting our lives today. Sacred Scripture and official, doctrinally sound documents are consulted through this course.

MORALITY

#1400 **Level: Sr** **Term: Year**

This course provides the students with a basic overview of the moral teachings of the Catholic Church. It focuses specific attention on the moral agent and the individual responsibilities of conscious freedom in the light of the Tradition of the Faith.

The course also focuses on aspects of single, married and religious life, the importance of relationships, intimacy, love and human sexuality within the light of our primary vocation as Baptized Christians called to be the People of God.

CHRISTIAN SERVICE PROGRAM: "Faith In Action"

Every student attending BMHS must successfully complete "thirty hours" of Christian Service each school year. This program places each of us in union with Jesus' teaching that "the greatest in the Kingdom of God is the one who serves" (Mk:35)

The specifics of the program, its policies, are found in the Student Handbook and will be presented in detail in each religion class.

SCIENCE

ACADEMIC BIOLOGY

#6120 **Level: Fr** **Term: Year**

Biology is the study of life. Students are given lecture and laboratory work, demonstrations and explanations of life forms, and how each form functions to survive. Also stressed is the relationship each living thing has to all other living things. This introductory course in biology is designed to increase student interest in science concepts.

RELIGION

CATHOLICISM

#1100 **Level: Fr** **Term: Year**

This course presents to the students a “broad overview” of the Tradition of Faith with the intention of providing the students with a “fresh” view of the Church, its teachings and tradition.

The course is divided into three stages:

Stage 1 God’s Word - God reaches out to us

Stage 2 Worship - We reach out to God

Stage 3 Witness - We journey together

SCRIPTURE

#1200 **Level: So** **Term: Year**

This course presents to the students an introductory, yet detailed, overview of both the Old and New Testaments. The course introduces to the students various elements of biblical theology, its historical context and methods of exegesis with the primary focus on the Holy Scripture’s call to faith and life in relation to God.

ECCLESIOLOGY

#1300 **Level: Jr** **Term: Semester**

This course provides a means for understanding the interrelationship of the various components of the Catholic Church. While acknowledging the importance of the historical perspective, this course is constructed around those themes that represent Church practice and belief such as the Church as the People of God, the Church as a servant, and the Church as a sacrament. Each theme has a historical component tracing the theme through major periods of Church history and providing insight as to how the Church has come to its contemporary expression.

SOCIAL JUSTICE

Level: Jr **Term: Semester**

This course introduces students to issues surrounding the key principles of the Church’s rich body of social teaching that comes to us from the strong tradition of the writings of the popes. Understanding how societies work and the values that guide them will be studied in this course

MATHEMATICS

HONORS ALGEBRA I

Level: Grade 8 **Term: Year**

This first course in Algebra is designed to thoroughly acquaint the student with the basic concepts and skills with emphasis on problem solving, and to develop a theoretical approach to elementary Algebra. Students who satisfactorily complete this course will be taking a total of five college preparatory mathematics courses including calculus.

Prerequisite: Pre-Algebra

PRE-ALGEBRA

#5110 **Level: Fr** **Term: Year**

This course is structured to teach mathematics through a consistent, well-paced plan. Basic arithmetic skills, applications, and problem solving are all used to create a strong background in math.

ACADEMIC ALGEBRA I

#5120 **Level: Fr** **Term: Year**

This first course in Algebra is designed to thoroughly acquaint the student with the basic concepts and skills of elementary Algebra and to lay a firm foundation for later course work in mathematics.

Prerequisite: Pre-Algebra

ALGEBRA I

#5210 **Level: So** **Term: Year**

This first course in Algebra is designed to thoroughly acquaint the student with the basic concepts and skills of elementary Algebra and to lay a firm foundation for later course work in mathematics.

Prerequisite: Pre-Algebra

ACADEMIC GEOMETRY

#5220 **Level: Fr, So** **Term: Year**

This is a composite course of plane and solid geometries to develop the understanding and degree of skill necessary to use in mathematics as a tool in problem solving. Symbolism and theory are developed through a system of logical thought. Mathematical concepts are developed through a theoretical approach.

Prerequisite: Academic Algebra I and teacher recommendation

HONORS GEOMETRY

#5150

Level: Fr

Term: Year

Honors Geometry is a comprehensive course which is enhanced by emphasizing and integrating logical reason and spatial visual skills. This course enables students to discover and study geometric relationships and measures of geometric figures. Algebra skills are reviewed for upcoming lessons. Formal proofs are used throughout the book as a means of logical reasoning.

Prerequisite: Honors Algebra I and teacher recommendation

GEOMETRY

#5310

Level: Jr

Term: Year

Geometry is a composite course of plane and solid geometries to develop the understanding and degree of skill necessary to use in mathematics as a tool in problem solving. Symbolism and theory are developed through a system of logical thought. Mathematical concepts are developed through a theoretical approach.

Prerequisite: Algebra I and teacher recommendation

ACADEMIC ALGEBRA II

#5320

Level: So, Jr

Term: Year

This course stresses both the structure of Algebra and the development of computational skills. Problem solving techniques are emphasized and refined through practical applications.

Prerequisite: Academic Geometry and teacher recommendation

HONORS ALGEBRA II

#5250

Level: So

Term: Year

This second course in Algebra initially reviews and extends the concepts and skills learned and practiced in the Algebra I course. The remainder of the course is then devoted to a systematic study of elementary functions, the linear, quadratic, polynomial, logarithmic, exponential functions.

Prerequisite: Honors Geometry and teacher recommendation

perform music. All National Standards for classroom music will be utilized in the teaching of this class.

MUSIC THEORY I and II

#9300

Level: Jr, Sr

Term: Year

These courses are designed to prepare a student for a career in the field of music. The student is introduced to a comprehensive study of basic fundamentals, sight singing, ear training, keyboard training and fundamentals of four part harmony.

PHYSICAL EDUCATION / HEALTH

PHYSICAL EDUCATION

#0100 - 0200

Level: Fr, So, Jr, Sr

Term: Semester

Physical education is set in a social atmosphere and is designed to help students improve their overall well-being. The students will learn and perform individual skills, team games and lifetime leisure sports.

WELLNESS AND NUTRITION

#300

Level: So, Jr, Sr

Term: Semester

This course is designed to gain skills in making informed food and nutrition decisions that promote good health and fitness. Students will also have the opportunity to apply nutrition knowledge and basic cooking skills in the planning and preparation of various foods. Practical skills in the kitchen and laundry necessary to live on your own and be an independent adult will also be discussed.

HEALTH

#0700

Level: Fr

Term: Semester

In this course students will learn the importance of having a healthy body and mind as well as a positive attitude about life. The students will gain a better understanding of the many influential factors that can affect one's health which will help them make better choices.

CHORUS

#9100

Level: Fr, So, Jr, Sr

Term: Year

Chorus is designed to teach basic vocal technique, ear training and general music theory with a major focus on performance. Musical literature will vary in style, form, language and historical period. There will be a major emphasis on proper vocal technique which includes the use of correct posture, breath control and diction. Ear training will be developed through tonal awareness, blend and balance, and pitch and intonation. Students will apply their learned knowledge of music theory in the correct use of dynamics, choral notation, musical terms and symbols and other musical nuances. Chorus students must also perform at all school liturgies, graduation and scheduled concerts. There will also be many opportunities for students to perform in the community.

STRING CLASS

#9500

Level: Fr, So, Jr, Sr

Term: Year

String class is designed to instruct students in basic musicianship through string literature. Students play orchestral music of various styles and composers.

Prerequisite: Desire and ability to play a string instrument and participate in orchestra.

INSTRUMENTAL

Level: Fr, So, Jr, Sr

Term: Year

Instrumental class is a study of any instrument to prepare students for the performing groups. Classes will be arranged through the Band Director on an independent basis.

Prerequisite: Desire and ability to play an instrument. Band, orchestra or string class required.

GENERAL MUSIC I

9210

Level: Fr

Term: 9-weeks

This course is designed for all students in grade 9. The elements of music as well as the instruments of the band and orchestra will be presented. Through listening and discussion, students will develop an understanding and appreciation of the various forms of music. In addition, several hands on experiences will be provided for students to experience and

HONORS ALGEBRA II/TRIGONOMETRY

#5255

Level: So

Term: Year

This second course in Algebra initially reviews and extends the concepts and skills learned and practiced in the Algebra I course. The remainder of the course is then devoted to a systematic study of elementary functions, the linear, quadratic, polynomial, logarithmic, exponential and trigonometric functions.

Prerequisite: Honors Geometry and teacher recommendation

ALGEBRA II/TRIGONOMETRY

#5410

Level: Sr

Term: Year

This course stresses both the structure of algebra and the development of computational skills. Problem solving techniques are emphasized and refined through practical application. The last nine weeks of the course covers trigonometry. Students will be taught how to use the graphic calculator.

Prerequisite: Geometry and teacher recommendation

HONORS PROBABILITY AND STATISTICS

#5470

Level: Sr

Term: Year

The focus of this course is to emphasize the concepts of statistics and develop skills necessary to solve application problems. Students will extensively use the graphing calculator to solve problems. This course will provide a solid background in statistics that is needed for future college level courses.

Prerequisite: Trigonometry/Elementary Functions and teacher recommendation

HONORS PRE-CALCULUS

#5355

Level: Jr

Term: Year

This course is designed to review, develop and tie together the knowledge and skills learned from all the previous mathematics courses. Topics from algebra, geometry, trigonometry, discrete mathematics and probability are covered. This course, centered around this unifying theme of functions, provides an intuitive and analytic base and the tools necessary to continue with Advanced Placement Calculus the following year.

Prerequisite: Honors Algebra II / Trigonometry and teacher recommendation

ACADEMIC TRIGONOMETRY / ELEMENTARY FUNCTIONS**#5420** **Level: Jr, Sr** **Term: Year**

This course reviews and develops all the previous work done in mathematics. Trigonometric functions are covered in full detail. The topics presented are centered around the unifying concept of functions. The students will also be exposed to using the graphing calculator.

Prerequisite: Academic Algebra II and teacher recommendation

HONORS TRIGONOMETRY/ ELEMENTARY FUNCTIONS**#5350** **Level: Jr** **Term: Year**

This course reviews and develops all the previous work done in mathematics. Trigonometric functions are covered in full detail. The topics presented are centered around the unifying concept of functions. The material provides the solid background needed to continue with Honors Calculus A the following year. Students will use the graphic calculator to solve problems analytically and graphically.

Prerequisite: Honors Algebra II and teacher recommendation

HONORS CALCULUS A**#5450** **Level: Sr** **Term: Year**

This course is intended for students who have a working knowledge of college preparatory mathematics, including algebra and trigonometry. Students will learn the basic concepts of calculus and its applications. Students will use a graphing calculator to solve problems both analytically and graphically. Many topics are introduced intuitively with less emphasis on theory and formal proof than in the Advanced Placement Calculus Course.

Prerequisite: Honors Trig/Elementary Functions **or** Honors Pre-calculus and teacher recommendation

ADVANCED PLACEMENT CALCULUS AB**#5460** **Level: Sr** **Term: Year**

This course is intended for students who have a thorough knowledge of college preparatory mathematics, including algebra, axiomatic geometry, trigonometry and analytic geometry (rectangular coordinates, equations and graphs, lines and conics). The students will gain an intuitive understanding of the concepts of calculus and experience its methods of applications. The students will use a graphing calculator to solve problems both analytically and graphically. The selection of topics follows the guidelines set for by the College Entrance Examination Board. Upon completion of this course, the students will either take the Advanced Placement Calculus AB Exam and may apply for the College in High School Program in order to earn college credit.

Prerequisite: Honors Pre-Calculus and teacher recommendation

ADVANCED PLACEMENT CALCULUS BC**#5480** **Level: Sr** **Term: Year**

This is the second course in the Calculus sequence. AP Calculus BC continues where AP Calculus AB ended with symbolic and numerical integration techniques and applications of integration. Other topics covered include differential equations, infinite series, parametric and polar coordinates, vectors and applications. Upon completion of this course, the students will either take the Advanced Placement Calculus BC Exam and may apply for the College in High School Program in order to earn college credit.

Prerequisite: Advanced Placement Calculus AB

MUSIC**BAND/ORCHESTRA****9000** **Level: Fr, So, Jr, Sr** **Term: Year**

Band is designed to instruct students in basic musicianship through all major styles of band literature. Membership in the marching band and concert band are required. Public performances are required. Students play orchestral music of various styles and composers.

Prerequisite: Desire and ability to play an instrument.