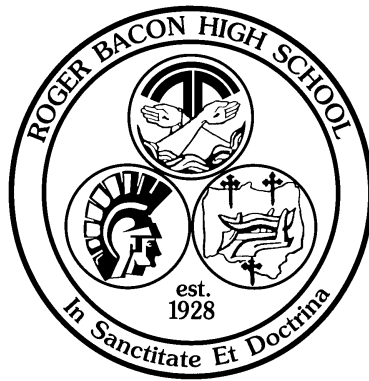


Course Registration Guide

2011-2012



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Table of Contents

Academic Placement	Page 2
Graduation Requirements	Page 3
Academic Program	Page 4
Business and Technology	Page 5
English	Page 7
Family and Consumer Science	Page 12
Fine Arts	Page 14
Foreign Language	Page 18
Health and Physical Education	Page 22
Mathematics	Page 23
Religion	Page 26
Science	Page 28
Social Studies	Page 32

Roger Bacon High School Mission Statement

Rooted in the Franciscan values of holiness and learning, self-discipline and compassion, Roger Bacon is a Catholic high school which develops the hearts, minds, and bodies of its young men and women in a caring and challenging environment.

Academic Placement

Roger Bacon High School offers four academic programs in order to challenge the abilities of all students. Freshman placement is determined on the basis of grades, teacher recommendations, and the results from the placement test.

At the end of each year, teachers and the guidance staff evaluate students to insure that they are performing at their highest potential. Adjustments are made as needed in consultation with parents. Because students progress at different levels, it is common to be placed in more than one academic program; for example, a student may take honors level math and science and college prep level history or English.

Honors/Advanced Placement: This program is an accelerated program of studies for our most academically capable students. Students taking Advanced Placement courses may earn college credit. Requirements for that credit are determined by the college or University. AP® courses are offered in European History, United States History, English Language, English Literature, Studio Art, Computer Science, Calculus, Biology, Chemistry and Physics. In addition AP tests in other subject areas may be taken on an individual level basis. Students selected for the Honors level are chosen based upon the results of the placement test and current teacher recommendations.

College Preparatory I: This program is designed to meet the academic curriculum requirements for acceptance at four-year colleges and universities.

College Prep II: This program is designed to meet the academic curriculum requirements for acceptance at two-year or four-year colleges and universities. Students may begin taking a foreign language after their freshmen years.

General: This program is designed to give students concentrated help in English, math, science, religion, and history courses. Small self-contained class sizes are available so that individual help may be given to each student.

Graduation Requirements

Currently the State of Ohio requires 20 credits to graduate from high school and the Archdiocese of Cincinnati requires the successful completion of four years of religion in order to graduate; therefore, Roger Bacon requires a minimum of 24 credits to graduate including the following:

4 credits of English	3 credits of Social Studies including:
4 credits Religion	½ credit of Government
3 credits Math	½ credit of Social Studies
3 credits Science	1 credit of U.S. History
½ credit of Physical Education	1 credit of World History
½ credit of Health	1 credit of Fine Arts (<i>begin with the class of 2014</i>)

Also required for participation in graduation:

- Passage of all sections of the OGT or Proficiency Tests
- Not failing more than two classes
- Service hours completed and turned in
- All financial obligations met

Community Service

In an effort to make religious teachings more applicable to the real world experience of its students and to help students extend their concerns beyond their immediate area of involvement, Roger Bacon requires students to perform 20 hours of community service. This service must be completed between the beginning of the second semester junior year and third quarter senior year. Specific directions regarding these service hours are given to religion classes. A senior retreat is also required. A diploma will not be granted unless these requirements are fulfilled.

Grading Scale

A numeric grade is given on report cards for each quarter and each semester exam. In order to pass a subject, students must have a year-end average of 70.0. The computer will not round up averages. The grading scale is listed below:

A	100-93
B	92-85
C	84-76
D	75-70
F	69.9 and below

RBHS Academic Program

Honors	College Prep I	College Prep II	General
Freshmen	Freshmen	Freshmen	Freshmen
Religion I	Religion I	Religion I	Religion I
Honors English I	English I	English I	English I
Honors Algebra/Geom.	Algebra I	Algebra I Part 1	General Algebra I Part 1
Honors Biology	Physical Science	Physical Science	General Science
Foreign Language	Foreign Language	Health / PE	Intro to Social Studies
Communications	Communications	Communications	Communications
Electives	Intro to Social Studies	Intro to Social Studies	Building Life Skills
	Electives	Electives	Electives
Sophomore	Sophomore	Sophomore	Sophomore
Religion II	Religion II	Religion II	Religion II
Honors English II	English II	English II	English II
Algebra II	Geometry	Algebra I Part II	General Algebra I Part II
AP® European History	World History	World History	World History
Honors Chemistry	Biology	Biology	Biology
Foreign Language	Foreign Language	Financial Management/	Financial Management/
Electives	Electives	Electives	Electives
Junior	Junior	Junior	Junior
Religion III	Religion III	Religion III	Religion III
AP® English III (Language)	English III	English III	English III
Math Analysis	Algebra II	Basic Geometry	Basic Geometry
AP® U.S. History	U.S. History	U.S. History	U.S. History
Science Elective	Chemistry	Materials Science	Materials Science
Electives	Electives	Electives	Electives
Senior	Senior	Senior	Senior
Religion IV	Religion IV	Religion IV	Religion IV
AP® English IV (Literature)	English IV	English IV	English IV
AP® Calculus	Math Analysis	Basic Algebra II	Basic Algebra II
U.S. Govt./Economics	U.S. Govt./Economics	U.S. Govt./Economics	U.S. Govt./Economics
Physics	Physics	Foreign Language, Physics, Business electives (yr)	Foreign Language, Science or Business electives (yr)
Electives	Electives	Electives	Electives

Each semester course is worth .5 credits with the exception of Physical Education in which .25 of a credit is earned. Year long courses award 1.0 credit. In the following pages, there are a number of abbreviations that are used because of limited space. “TR” means “teacher recommendation”, “Sem.” means “semester”, and “AP” means “Advanced Placement”.

Business Department

Course	Credit	Length	Pre-requisite
AP® Computer Programming I	1	Yr.	Teacher Recommendation
Accounting I	0.5	Sem.	
Accounting II	0.5	Sem.	Accounting I
Financial Management	0.5	Sem.	
Business Law	0.5	Sem.	
Business Math	1	Yr.	Math Teacher Recommendation
Communications	0.5	Sem	
Communications II	0.5	Sem	Communications
Intro. to Comp. Prog.	0.5	Sem.	
Technical Drawing I	1	Yr.	TR
Technical Drawing II	1	Yr.	Technical Drawing I
Technical Drawing	0.5	Sem.	TR
Web Site Design	0.5	Sem.	

Communications in the Age of Technology

This one-semester freshman level course is provided in partnership with Great Oaks. It is designed to develop a wide variety of communication and technology skills that are necessary for success in high school and beyond. Students will learn computer operations and keyboarding skills. This course also introduces the student to the appropriate use of the internet, online databases, spreadsheets, and other library resources for research purposes. Students will also learn to use presentation software and other technologies that support communication and learning

Accounting I This introductory course provides the opportunity for students to develop a working knowledge of accounting concepts and principles. It will include the procedures used in opening an accounting system for a proprietorship, partnership and corporation.

Accounting II This course provides the opportunity to develop a deeper knowledge of accounting procedures and techniques used in solving business problems. Topics may include departmentalized accounting, control systems, management accounting, and cost accounting.

Business Law – This course is designed for students with an interest in the legal system. Students will learn legal terminology that encompasses the major themes of law.

Business Math – Business Math will explore the various computation methods used for solving business oriented problems. A large component of the class will develop the student's problem solving ability pertaining to each business topic.

Communications II – A continuation of *Communications* using more advanced functions of word processing/spreadsheet/excel and d-base. Proper use of the keyboard and efficiency will continue to be stressed.

Financial Management – This course will introduce the student to the world of business, and prepare them for their economic roles of consumer, worker and citizen. Some of the major topics covered will be: Banking, Credit, Car Insurance and Investments.

Introduction to Computer Programming – This one semester class is an introduction to basic concepts of structured programming. The programming language used in this course is C++. The class is open to all students.

AP® Computer Programming – This year-long course is designed to prepare the student for the Computer Science “A”, Advanced Placement Test administered by the College Board in May each year. The host language for the class is Java. It is open to juniors and seniors who have completed Algebra II, have demonstrated math and writing skills adequate for the course, and have the teacher’s recommendation.

Technical Drawing I, II – Students will acquire basic skills in using the Auto-Cad Program. Students should have interest in Design, Architecture or Computer Drawing. Second year will enhance their knowledge and cover more skill areas.

Website Design – Students will gain an understanding of web-site development. This will include understanding important terms, HTML, and use of *Dreamweaver* software for Web-Site Development.

English Department

Course	Credit	Length	Pre-requisite
English I	1	Yr	
English II (Teacher Recommended Level)	1	Yr	English I
English III (Teacher Recommended Level)	1	Yr	English II
English IV (Teacher Recommended Level)	1	Yr	English III
AP® English Language (junior)	1	Yr	TR
AP® English Literature (senior)	1	Yr	TR
Journalism	1	Yr	TR/Gr 11-12
Publications – Yearbook	1	Yr	TR/Gr 11-12
ACT/SAT Prep	0.5	Sem.	Gr 10, 11, 12
Movies As Literature	0.5	Sem.	Gr 11-12
The Pen Is Mightier	0.5	Sem.	Gr 11-12
Creative Writing	0.5	Sem.	Gr 11-12
Women Authors	0.5	Sem.	Gr 11-12

English I - Honors

This course seeks to improve the writing skills of the students, especially in complete compositions. It is a thorough introduction of the genres of literature, with emphasis first semester on the mythology of ancient cultures. It is an introduction to literary criticism dealing with figurative language, themes, motifs, and style. Finally, it is designed to increase the student's vocabulary with words of moderate difficulty.

English I CPI

This course will enable students to improve their reading comprehension on many levels. Students will be encouraged to seek a personal engagement with a variety of literary texts, reflecting on which aspects of a work have the most appeal to them and why. They will write about their responses to literature as well as about their own experiences. The course will include a review of parts of speech, rules of grammar, and punctuation. It is also designed to increase vocabulary with words of moderate difficulty.

English I CP II

This course introduces a variety of literary genres with an emphasis on reading comprehension and an exploration of figurative language and themes. This course also reinforces the elements of grammar, punctuation, and sentence structure. It is also designed to increase vocabulary and spelling skills.

English I – General

This course is a complete reinforcement of the elements of grammar. It is designed to give a mastery of the basic elements of the sentence and the paragraph. It is an introduction to several genres of literature with an emphasis on reading comprehension, vocabulary, and spelling.

English II - Honors

This course is a multi-genre survey course that engages students in becoming skilled readers of prose and poetry written in a variety of periods, disciplines, and rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. Moreover, both their writing and their reading should make students aware of the interactions among a writer's purposes, subjects, and audience expectations. This course also emphasizes literary research, the acquisition of challenging vocabulary, and the refinement of grammar to support writing skills.

English II – CP I

This course is designed to build on the rules of grammar and punctuation that were introduced during English I and examine them at a more complex and in-depth level. These skills will ideally enhance the student's written expression in all areas: creative, persuasive, expository, etc. The course is designed to increase the student's vocabulary with words of moderate difficulty. It is a continued examination of various genres of literature, with a focus on both comprehension and interpretation.

English II – CP II

This course is designed to build on the rules of grammar and punctuation introduced during the English I course and examine them at a more complex level. These skills will enhance the student's written expression in all areas: creative, persuasive, expository, etc. The course is designed to increase the student's vocabulary with words of moderate difficulty. It is a continued examination of various genres of literature, with the focus on comprehension skills.

English II – General

The course is a two-fold investigation of communication. The first semester investigates and develops the skills of written communications through the study of composition and literature. The second semester investigates and develops the skills of oral communication.

English III - AP® English Language and Composition

The AP course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. Moreover, both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness of writing. Readings are at the discretion of the instructor with emphasis on American literature. In addition to readings, 600-1000 word essays will be assigned regularly.

English III – CP I

This class presents an historical and critical approach to all forms of American literature through the study of complete and representative works by American authors found in the literature text and the reading of selected longer novels and dramas with emphasis on expository writing, vocabulary study, and research.

English III – CP II

This course is a survey from the colonial American period through the twentieth century. The focus of the course is two-fold: to read and understand the literature as it relates to the historical time frame and to refine grammar and writing skills.

English III – General

Using American literature as a foundation of continued genre studies, this course continues to build skills in reading comprehension, vocabulary acquisition, grammar and writing. A variety of supplementary materials and assessment methods will be used to reinforce skills and measure performance.

English IV - AP® English Literature and Composition

The AP course in Literature and Composition engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students will deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. The course is also an historical survey of British literature from the Anglo-Saxon period to the twentieth century. Readings will be at the discretion of the instructor. In addition to readings, 400-600 word essays will be assigned regularly.

English IV – CP I

The course is an historical survey of British literature from the Anglo-Saxon period to the twentieth century. In addition to readings, 300-500 word essays will be assigned regularly. The course will also contain a specialized component of either Tragedy/Drama or World/Literature.

English IV – CP II

This course is a survey from the British Anglo-Saxon period through the twentieth century. The purpose of this class is to read and understand the literature as it relates to the historical time period and to refine grammar, vocabulary, and writing skills.

English IV – General

Using British literature as a foundation of continued genre studies, this course continues to build skills in reading comprehension, vocabulary acquisition, grammar, and writing. A variety of supplementary materials and assessment methods will be used to reinforce skills and measure performance.

Movies as Literature

This course is designed to enable students to see film as part of the language arts curriculum and to recognize the connections between writing and film making and reader response and viewer response. It focuses on film not only as a form of art, but also as a form of literature. A selection of classic and modern films is shown, covering a broad range of directors, stars, styles, and genres. This is a one-semester English elective and open to junior and senior students at the CP I, CP II, and Honors levels. Available alternating years.

Creative Writing

This course is devoted to developing the writing skills of the students in creative compositions and the study of both prose and poetry forms. In addition to exploring writing daily, students will engage in peer-editing, sharing, publishing, and critiquing. This one-semester English elective is open to juniors and seniors based on the recommendation of their English teacher. Prerequisite: English II. Available alternating years.

Women Authors

This is a survey course focusing on the works of modern American women with varied ethnic backgrounds. With few exceptions, all works read will have been written during the lifetime of the current senior class. Various themes and genres will be covered. The format of the class follows closely along the lines of a college seminar class. Students are expected to read for the class and actively participate in class discussions. This one-semester English elective for juniors and seniors open to CP I and Honors students. CP II students will be admitted with the permission of the instructor. Available alternating years.

ACT/SAT Prep

Students will review skills in vocabulary, grammar, reading, and writing necessary for taking the ACT and SAT. Students will also learn test taking strategies so that they can calmly and confidently approach these two tests. This semester-long course is open to CP II, CP I, and Honors sophomores, juniors and seniors. \$15.00 Workbook Fee

The Pen Is Mightier

This course will encourage students to become engaged socially and politically through reading and writing. Students will read works by authors who speak out against social injustices and call upon their readers to effect change. In addition to reading, students will write original pieces in a variety of genres which raise awareness about contemporary social justice issues. This semester-long course is open to CP II, CP I, and Honors juniors and seniors. Available alternating years.

Journalism

This course introduces students to basic news writing skills and concepts. Students of this class will become reporters and editors with the Roger Bacon community as their beat. Students will work together to produce the Spartan Spirit and other publications concerning Roger Bacon. Above average writing skills are needed, so a recommendation from a current English teacher is required. This is a year long course open to CPI, CPII, and Honors juniors and seniors.

Publications – Yearbook

This course is designed to introduce students to the fundamentals of publication. The class will work together to produce next year's *Troubadour*, the Roger Bacon yearbook. Publication skills will include the following: computer-assisted graphic design, writing, and desktop publishing. Recommendation of the student's current English teacher is required.

Family and Consumer Science

Building Life Skills

This course is designed to enhance personal development of the young adult. Students will develop healthy attitudes and skills to achieve personal growth and independence. This includes methods of time and stress management, decision-making, establishing goals, communication and relationships, nutrition and weight management, finances and becoming a smart consumer, as well as job hunting and interviewing skills will be addressed. Laboratory experiences to cook basic foods will be provided weekly. There is a \$35 fee for foods. (9/10 graders)

Child Development

This course provides students with knowledge of how parents and childcare providers meet the needs of infants and young children to provide for their healthy growth and development. Students will recognize the factors that impinge on parents. In addition, this course helps students recognize how different cultures, lifestyles, and relationships affect children's growth and development. Prominent theories of child psychology will also be studied. There is a \$10 fee for snacks and crafts. (11/12 graders)

Beginning Cooking for Good Health

The beginning cook will learn the basics of nutrition, food preparation, equipment, use of utensils, and how to read and follow a recipe. In this semester course we use convenience foods combined with other ingredients, contributing to overall healthy eating habits. Practices of kitchen safety and sanitation are emphasized in every weekly lab experience. There is a \$40 fee for foods. (10/11 graders)

Creative Cooking for Living Healthy

Students will gain knowledge and skills in acquiring and practicing a healthy lifestyle using the dietary guidelines that will reduce the risks of chronic disease and unsafe habits. Students gain competence to differentiate methods of weight loss, reading labels, and determining their own nutritional needs. Student will understand the cultural, family, community, and economic implications of obesity, healthy weight and lifestyles. Menu planning, etiquette, and several unique cooking units balance out the semester. Safe food handling will be emphasized in our weekly cooking experience. There is a \$40 fee for foods. (11/12 graders)

On Your Own

This course will develop the attitudes and skills to achieve personal financial wellness. They will learn the implications of sound financial decision making, appropriate use of credit, savings, budgeting, major purchases and contracts. Students will learn the inter-relationships between values, spending decisions, income and education. Included will be weekly cooking experiences and money saving techniques while shopping. \$35 food lab fee charged. (11/12th graders)

College and Career Search

Students will analyze and document personal interests, talents, skills, aptitudes and values in relation to career options. They will then develop, implement, and periodically review and revise a career blueprint in the context of other life choices and changing employment trends, societal needs and economic conditions. The blue print will include education plans supportive of their personal and career goals. These plans will guide post secondary education comparisons and choices that will assist the young adult to schooling options. Preparations for the college experience including relationships, personal habits, financing, living arrangements, and healthy eating are discussed. Students will cook inexpensive and nutritious college foods weekly. \$35 food lab fee charged. (11/12th graders)

Fine Arts

Course	Credit	Length	Pre-requisite
<i>Visual Arts</i>			
Introduction to Art	0.5	Semester	
Drawing and Painting	0.5	Semester	Introduction to Art
Advanced Draw. & Paint.	0.5	Semester	Draw. & Painting
Graphic Arts	0.5	Semester	Intro. to Art
Ceramics	0.5	Semester	gr. 10-12
Photography	0.5	Semester	gr. 10-12
3D Design	0.5	Semester	gr. 10-12
AP® Studio Art	1	Year	Teacher Recommendation
<i>Performing Arts</i>			
Concert Choir	1	Year	
Music Appreciation	0.5	Semester	
Concert Band	1	Year	
Marching Band	.25	Quarter	
Percussion Class	1	Year	
Guitar	0.5	Semester	
Guitar II	0.5	Semester	Guitar I
History of Jazz and Pop	0.5	Semester	
Music and Technology	0.5	Semester	Any other Music elective
Music Theatre	0.5	Semester	
Music Styles	0.5	Semester	Teacher Recommendation
Music Theory	1	Year	Any other Music elective

Visual Arts

Introduction to Art

Introduction to Art is designed for the student to create in each medium: clay, paint, collage, graphite and charcoal. Through art making, the student will learn the elements of art and basic techniques for the materials in which they work.

One Semester

\$95 fee



Drawing and Painting

Our drawing and painting course explores new types of mark making and experimenting with materials such as, but not limited to: graphite, ink, charcoal, watercolor, and acrylic. Through experimentation and individualized help the student's own artistic voice will begin to emerge on canvas and paper.

One Semester \$95 fee

Advanced Drawing and Painting

Expanding on what was learned in Drawing and Painting, students' artistic styles and voices emerge further in the building of one's portfolio. This course can be taken twice.

One Semester \$95 fee

Graphic Arts

In Graphic Arts, students will learn the basics of Adobe Photoshop. They will use Photoshop as a tool to create works of art with personal meaning in combination with drawing, painting, collage and photography.

One Semester \$95 fee

Ceramics

Activities in ceramics include observing the basics of wheel throwing, underglazing, coiling, pinching, and slab building as well as adding glaze and decorative surface treatments to make the work complete.

One Semester \$105 fee

Photography

In Photography, students will learn the parts of a 35 mm SLR camera and how to operate it. Students will also develop their own negatives, print contact sheets and enlargements, and learn ways to manipulate film, lighting and paper to enhance a photograph and create artistic affects. Digital photography will also be featured.

One Semester \$95 fee



3D Design

In 3D Design, students will learn how to make three dimensional works of art out of various materials: metals, found objects, papers, plaster and clay. Topics covered in the course, though not limited to are: jewelry design, public and contemporary sculpture, installation and Dada Art.

One Semester \$95 fee

AP Studio Art

AP Studio Art is for any student interested in creating a large, work-intensive portfolio to be submitted for the AP Studio Art exam. The serious art student should be able to use or rework pieces from any elective class OR workshop or class taken outside of Roger Bacon High School, though most work can be created during the first 3 quarters of the school year. Portfolio guidelines follow the College Board curriculum.

One Year \$130 fee

Performing Arts

Concert Choir

Emphasis in choir is on ensemble singing. An individual, however, is taught basic skills necessary for proper singing; i.e., posture; breath support; tone production; and must be able to demonstrate a facility with these skills. Repertoire includes both sacred and secular music of all periods and styles. In addition to regular rehearsals during class-time, a number of public performances provide an opportunity for the choir to demonstrate its achievement. \$20 fee

Grades 9 - 12

Music Appreciation

Music Appreciation is an introduction to the basic principals of music and how to listen. The course focuses on the building blocks of music, music history, and gives an overview of the styles of Classical Music. Students will experience hands-on participation for many types of music in a non-technical look through lectures, in-class discussions, reading assignments, and listening activities. One semester. Grades 9-12

Concert Band

The Concert Band is just one of the many divisions of the Roger Bacon Bands. It is a performance based ensemble that meets during the school day. No previous musical experience is necessary to join. This class is for those who want to learn a wind instrument or continue study on an instrument through the preparation of concert music. The class includes many performances and covers several different styles of classical music.

Full Year Grades 9 – 12

Marching Band

The Marching Band is just one of the many divisions of the Roger Bacon Bands. It is a performance based ensemble that meets completely after the school day. No previous musical experience is necessary to join. This “9th period” class is for those who want to participate in the full experience of the corps style marching ensemble. Through our preparation of a full competitive, traveling show and a pop, football-halftime show, students are able to learn both music performance on their instrument and meet the physical demands of marching.

One Quarter .25 credits (Four years = .5 PE credits and .5 Fine Arts credits)

Grades 9-12

Percussion

Percussion class is a performance based ensemble. It is open to all students interested in learning percussion instruments. No previous musical experience is necessary. Students would learn basics on all percussion instruments and cover music for percussion ensembles, and concert band percussion parts. This course would be for all percussionists in place of concert band.

Full Year

Grades 9 - 12

Guitar

If you have ever been interested in learning guitar then now is your chance. Guitar Class is for the beginner or experienced guitar player. Learn the basics of music and guitar performance from simple chords to full accompaniment. Learn a variety of techniques and styles particular to guitar playing.

One Semester

Grades 9-12

Guitar II

Guitar II is for the experienced guitar player. Learn advanced techniques of chord positions and scales to further your understanding of the multiple styles of the guitar> Built upon the basics learned in Guitar I, students will be able to extend their guitar playing and music understanding to not only accompany themselves but also write their own songs. Pre-requisite: Guitar I

One Semester

Grades 10-12

History of Jazz and Pop

This course explores the creation of “American” music through the history of jazz, rock, and popular music styles. We will discuss the basics of music and understand the inner workings that define these similar, yet very different styles. This class will focus on the history, key artists, principals, and important songs of Jazz and Pop music through listening examples, concert examples, presentations, and other activities.

One Semester

Grades 9–12

Music and Technology

Music and Technology is a non-performance class that would be a study of the effects technology has on the music industry. The class would cover basics of not only music but also recording and music writing technology. By following the history timeline, students will read articles, complete projects, take notes, and have hands-on exercises in music technology. This class is a study in the change technology has had on music; including recordings, computers, CD's, I-pods, and more. Pre-requisite: Any other Music class.

One Semester Grades 10–12

Music Theatre

Music theatre is an introduction to the basics of acting for a musical stage. It is a studio course and involves students in areas of the history of the theater and the musical, the basics in singing, the basics in acting, and the standard practices in auditioning for productions. It is not required that you have any music experience, either playing or reading music. The ultimate goal is to prep students for the school musical or dramas, which asks students to audition for specific roles.

One Semester Grades 9-12

Music Styles

A Capstone is generally a students' final project culminating all their knowledge on a subject. Music Styles is set as a study course for a group of students to create their own personal Capstones relating to the various facets of music. Through each student's project, a multitude of different music styles are presented. Students are in charge of creating their own proposals and setting their own timelines on projects with a wide range of possibilities. Pre-requisite: Teacher recommendation.

One Semester Grades 11-12

Music Theory

Music Theory is a course on the structure of music. Each of the elements of music is taught so that the student not only becomes familiar with them, but can work with these elements to create musical examples. From voice leading to chord progressions, to complete compositions, the student is taught the significance of music structure as a result of creative innovations of the composer. Students will master the skills of reading, writing, playing, and singing music at its foundations. Students in this class also have an opportunity of taking the AP Music Theory test. Pre-requisite: Any other Music class.

Full Year Grades 10-12

Foreign Language

Course	Credit	Length	Pre-requisite
Chinese I	1	Yr	
Chinese II	1	Yr	Chinese I and TR
French I	1	Yr	
French II	1	Yr	French I & TR
French III	1	Yr	French II & TR
French IV	1	Yr	French III & TR
Latin I	1	Yr	
Latin II	1	Yr	Latin I & TR
Latin III	1	Yr	Latin II & TR
Latin IV	1	Yr	Latin III & TR
Spanish I	1	Yr	
Spanish II	1	Yr	Spanish I & TR
Spanish III	1	Yr	Spanish II & TR
Spanish IV	1	Yr	Spanish III & TR

Scope and Sequence of Courses

Our foreign language program is structured around six areas of concentration, oral-aural work, vocabulary acquisition, reading, writing, grammatical structures and cultural acquisition. These areas are developed to various degrees depending upon the level and language being taught. In all levels, traditional grammatical terms for parts of speech and syntax are employed. The following yearly structure applies to our four foreign languages, Spanish, French and Latin, and Chinese.

- Year 1** Provides an introduction to the language and culture encompassed by the people who speak the given language.
- Year 2** Presents the more complex structures of the language and expands the cultural themes.
- Year 3** Completes the basic grammatical structures and introduces literature and composition.
- Year 4** Provides in-depth study of literature and civilization with a review of grammatical structures.

Chinese I

Students are introduced to basic conversational Mandarin at this level. Students will learn to converse using simple language and basic structure and become familiar with the foundations of Chinese writing. This course will help students develop language skills to communicate across ethnic and cultural differences and to develop an understanding of Chinese interpersonal behavioral cultural and related thought process.

Chinese II

Students will continue to develop their proficiency in communicating in a culturally appropriate manner using the Chinese language. They will converse more extensively and make presentations in Chinese. Students will develop the capacity to read material on familiar topics and produce short writing samples. Cultural activities will also be emphasized.

French I

French I is an introduction to contemporary French, aimed at providing the student with an ability to understand the basics of the language, to pronounce it in a manner acceptable to native speakers, and to read, write and spell the fundamentals. Student activities include projects, cooking, and films which emphasize communication skills and cultural analysis. In addition, students are introduced to France and French speaking countries around the world through the study of geography, cultural centers, history, daily living, and current events.

French II

French II is a continuation and deepening of the four basic skills of the French language: listening comprehension, speaking, reading and writing. Student activities in French II emphasize more advanced communication skills and language structures, and a continuation of vocabulary acquisition and cultural analysis. More advanced structures of the language are examined. Students develop their cultural understanding of France and francophone cultures.

French III

Student activities in French III emphasize more communication and conversation skills and language structures. Vocabulary acquisition is continued as well as cultural analysis. Students are required to develop the four skills of communication with guided practice in conversation, listening comprehension, advanced reading and writing drills. French Literature is introduced through the study of poetry, short stories, and *Le Petit Prince*.

French IV

This course studies the history of France from prehistoric times to the present. Students continue to develop the four skills of communication while investigating the history and culture of France through the ages. Literature, art, and an in-depth review of grammar structures are fully integrated into this curriculum, making this an interdisciplinary capstone course that seeks to connect the students' English, Religion and History classes.

Latin I

Latin I provides the fundamentals of Latin grammar and vocabulary. Mastery of the language includes use of Latin prayers, selections from the Latin Vulgate Bible, and songs in Latin. Information on Greek and Roman mythology, Franciscan writings, and cultural information on Roman life are covered both in the textbook and in other sources. Memorization, drill work, practice in translation, working in small groups or in teams of two are some of the activities that will help the student achieve a familiarity with the basics of vocabulary and grammar.

Latin II

Latin II begins with a review of fundamentals from Latin I. English derivatives are emphasized through vocabulary development as well as an expanded Latin vocabulary. The course will include Latin translations and new grammar. Projects will be used to help students become more proficient at using the language as well as to increase knowledge of mythology and cultural information. Latin prayers, songs, bible verses and games will be used to increase knowledge of the language.

Latin III

Latin III emphasizes translation with excerpts from famous authors. Choices include the following: “Cena Trimalchionis” from Petronius’s Satyricon, Aulularia by Plautus, Cicero’s “First Oration Against Catiline,” Ovid’s “Deucalion et Pyrrha” or other choices from Roman authors. Proficiency in the Latin language will also be gained through translation from English to Latin in projects and by translating works from modern Latin stories. Additional grammar will also be included in the course

Latin IV

Latin IV emphasizes translation with excerpts from famous authors. Choices include the following: Vergil’s Aeneid, various Roman poets (Ovid, Catullus, Horace), Martial’s epigrams, verses from the Vulgate Bible, selections from translations of modern authors such as Dr. Seuss’s How the Grinch Stole Christmas or O, Loca Tu Ibis. Proficiency in the Latin language will also be gained by translation from English to Latin as in projects or translating works from modern Latin stories. Additional grammar will also be included in the course.

Spanish I

Spanish I is a course designed to introduce basic concepts of the language with emphasis on grammar, listening, reading, writing, translating, and speaking skills. Hispanic culture will also be introduced through projects and videos.

Spanish II

Spanish II is an intermediate course focused on conversation and a continued concentration on grammar, listening, reading, writing, translating, and speaking skills. A research project on Hispanic culture and civilization is required.

Spanish III

Student activities in Spanish III emphasize an advanced communication and conversation skills and language structures. Vocabulary acquisition is continued. Students are required to develop the four skills of communication with guided practice in conversation, listening comprehension, advanced reading and writing drills. Students are exposed to Spanish civilization and culture by way of writers, poets, artists, musicians, composers, singers, and the saints.

Spanish IV

Student activities in Spanish IV emphasize much more advanced communication and conversation skills and language structures. Vocabulary acquisition is continued. Students are required to develop the four skills of communication with guided practice in conversation, listening comprehension, advanced reading and writing drills. Students will have the opportunity to take the AP® test in May.

Health and Physical Education

Course	Credit	Length	Pre-requisite
*Physical Education	.25	Sem.	
Health	0.5	Sem.	
Coaching and Officiating	0.5	Sem.	TR

** This courses will meet physical education requirements. Two semesters of Physical Education and one semester of Health are required for graduation. However, a waiver of the requirement for Physical Education can be granted if a student completes two full seasons as a participant on an OHSAA approved inter-scholastic sports team, or two full seasons in Marching Band.*

Health

This mandatory class is a required for graduation. Many topics will be covered including making healthy choices, managing stress, pregnancy and birth, food and nutrition, movement and coordination, personal care, preventing drug abuse, including alcohol and tobacco, first aid and C.P.R. This class meets for one semester.

Physical Education

This course is designed to promote a sense of health, fitness, recreation, and a personal responsibility in being fit. Students are exposed to a variety of lifetime activities aimed at achieving a basic level of fitness including: general physical conditioning, physical fitness testing, and various individual and team activities. The course involves activity and lecture. Weight training is also introduced as a method of fitness for life.

Coaching and Officiating

This semester course is designed to develop an appreciation of coaching and officiating careers. Students will become aware of interscholastic athletics and the skills that it takes to coach and officiate. Strategy, rules, conditioning techniques, and scheduling are some of the topics covered

Mathematics

Course	Credit	Length	Pre-requisite
General Algebra I, Part I	1	Yr	Placement Test & TR
General Algebra I, Part II	1	Yr	Gen. Alg. I Part I or Alg. I Part I
Algebra I, Part I	1	Yr	Placement Test & TR
Algebra I, Part II	1	Yr	Alg. I Part I
Algebra I	1	Yr	Placement Test & TR
Honors Algebra/Geometry	1	Yr	8 th grade TR or Placement Test
Basic Algebra II	1	Yr	Gen. Alg. I Part II or Alg. I Part II
Algebra II	1	Yr	Algebra I or Honors Alg./Geometry
Basic Geometry	1	Yr	Gen. Alg. I Part II or Alg. I Part II
Geometry	1	Yr	8th grade Alg. I with TR or Alg. I
Trigonometry	.5	Semester	Alg. II and Geom.
Probability & Statistics	.5	Semester	Alg. II and Geom.
Math Analysis	1	Yr	Alg. II and Geom.
AP [®] Calculus	1	Yr	Math Analysis and TR

General Algebra I, Part I

This is the first part of a two year fundamental algebra course designed for incoming general level freshmen who benefit from small class sizes offering individualized instruction. This class works to develop a strong foundation of mathematical skills by reviewing many of the concepts of 8th grade math. The course will cover basic computational skills, fundamental mathematic skills, rational numbers, the solving and graphing of linear equations, proportional reasoning and applying algebraic properties. Students will be given extensive support as the work to write equations and solve basic real-world problems.

General Algebra I, Part II

This course completes the objectives of basic algebraic principles for general level students. This class will continue to provide individualized support while challenging students to make connections from previous concepts to the new topics of inequalities, solving systems of equations, operations of polynomials, factoring, solving and graphing quadratic equations, and radical expressions.

Pre-requisites: Gen. Alg. I Part I or Alg. I Part I

Algebra I Part I

This is the first part of a two year fundamental algebra course designed for incoming college preparatory II freshmen who need more attention on the development of algebraic skills. This class is designed to challenge students with a modified course while providing individual and collaborative support to allow students to be successful. The course will cover fundamental mathematical skills as well as rational numbers, the solving and graphing of linear equations, proportional reasoning and applying algebraic properties. Problem solving skills related to real-world problems and applications of mathematics will be introduced.

Algebra I Part II

This course continues the study of algebraic principles for college preparatory II students. The topics to be covered include inequalities, solving systems of equations, operations of polynomials, factoring, solving and graphing quadratic equations, and radical expressions. After completion the students will have a comprehensive background of Algebra I.

Pre-requisite: Alg. I Part I

Algebra I

This course is intended for freshmen in college preparatory I with the aim of developing well-prepared, confident problem solvers. Starting with the basic algebraic premise of solving for “unknowns”, students will also explore rational and irrational numbers, functions, linear equations as well as patterns and sequences. All Algebra I students will be introduced to and required to manipulate monomial and polynomial expressions, including quadratic equations and functions. Students will engage in in-depth problem solving, aimed at developing critical thinking skills needed to succeed in the 21st century. Students will explore algebraic functions and concepts through the use of graphing calculators and other graphing software. (Graphing Calculator recommended).

Honors Algebra/Geometry

This rigorous course integrates a review of elementary algebra with the concepts of geometry for students who have a strong background in algebra. This course investigates the topics of linear and quadratic functions and their graphs, factoring and solving polynomial equations, solving systems of equations, as well as inductive and deductive reasoning. There will be a strong emphasis on the skills of logic exercised through formal proofs of coordinate geometry. Real-world applications that can be modeled by linear and quadratic functions will be covered. In-depth word problems will be addressed that require students to demonstrate an understanding of the concepts covered. The resources used to accomplish the objectives of the course include protractor, compass, graphing calculator, and other computer programs that demonstrate the components of algebra and geometry. (Graphing calculator recommended).

Pre-requisite: 8th Grade Teacher Recommendation or Placement Test score

Basic Algebra II

This course is aimed at college preparatory II or general level students. Algebra II continues and broadens the exploration of Algebra I. Incorporating the latest in graphic technology and using problem solving techniques, students will explore rational, irrational and complex numbers. Specifically, this course will develop an understanding of functions as it relates to linear relations, quadratic and exponential equations, and logarithms.

Pre-requisites: Gen. Alg. I Part II or Alg. I Part II

Algebra II

This course is aimed at college preparatory level I sophomores or juniors. Algebra II continues and broadens the exploration of Algebra I. Incorporating the latest in graphic calculator technology and using high level problem solving techniques, students will explore rational, irrational and complex numbers. Specifically, this course will develop an understanding of functions as it relates to linear relations, quadratic and exponential equations, logarithms, and matrices. (Graphing calculator required).

Pre-requisites: Algebra I or Honors Algebra/Geometry

Basic Geometry

This class is for students in CPII or general level. Students will use geometry with algebra to find distances, angle measures, areas, and volumes. They will use theorems and postulates for parallel and perpendicular lines as they apply to polygons and circles. Students will also problem solve using the Pythagorean Theorem and basic right triangle trigonometry.

Pre-requisites: Gen. Alg. I Part II or Alg. I Part II

Geometry

This class is for college preparatory level I students. Students will study Geometry as a mathematical system through the deductive development of relationships in the plane and space. Topics covered in this course include congruence and similarity of polygons, properties of parallel and perpendicular lines, angle measures, transformations, geometric constructions, circles, and volume and area. Logic is a driving force behind all that is studied in this course as students learn to explore various concepts through geometric proof.

Pre-requisites: 8th grade Alg. I with Teacher Recommendation, or Alg. I

Honors Geometry

Designed for the advanced student, this in-depth study of geometry topics includes inductive and deductive reasoning, parallel lines and planes, congruent and similar triangles, and angles and segments related to circles. Area and volume of solids, mapping, and transformations will also be studied. Emphasis will be placed on writing formal proofs of coordinate geometry. Students will be prepared to take Advanced Algebra II/Trigonometry.

Advanced Algebra II and Trigonometry

This course is a combination of a complete Algebra II course plus a complete course in Trigonometry. This course for advanced students prepares them to work with more advanced mathematics and complete their understanding of algebra. Algebra II topics include: polynomial, rational, and radical expressions; linear, quadratic, exponential, and logarithmic functions and graphs; algebraic principles related to sequences, series, and algebraic proof. Trigonometry topics include: trigonometric functions and graphs, trig identities, trig formulas, and trig expressions. Mastery of these topics prepares students for Calculus.

Math Analysis

This pre-calculus course is for the students at the college preparatory I level. The course examines advanced mathematics and data analysis to include the following: analysis of linear, quadratic, polynomial, and trigonometric functions as well as probability, statistics, and mathematical modeling. An emphasis is placed on using graphical analysis and curve fitting for conic sections. An introduction to limits, derivatives, and other calculus applications will enable students to move on to calculus at either the high school or college level. (Graphing calculator required).

Pre-requisites: Algebra II and Geometry

Trigonometry

This semester course investigates concepts in trigonometry for students interested in engineering or other mathematical related fields of study. Concepts covered include properties of trigonometric functions and their inverses, formulas, identities and relationships among trigonometric functions, through analyzing and solving equations algebraically, geometrically, and graphically. (Graphing calculator required).

Pre-requisites: Algebra II and Geometry

Probability & Statistics

This class is for college preparatory I or II students and is aimed at those students interested in pursuing a career in business. Beginning with an introduction of simple and compound probability, this course will explore and expand the students' understanding of statistical data and analysis. Students will analyze strategies and using probability concepts will interpret, manipulate and create relevant statistical data in the exploration of means and standard deviations. Students will use calculators, spreadsheets and tables to estimate areas under the normal distribution curve and apply these techniques within a business model. (Graphing calculator required).

Pre-requisites: Algebra II and Geometry

AP® Calculus

This course investigates topics in differential and integral calculus, including limits and continuity, differential calculus, and definite and indefinite integration. Emphasis will be placed on transcendental functions, and techniques of integration. Students will also study the concepts of calculus analytically, numerically, graphically, and conceptually. Technology will be integrated into the course through the use of graphing calculators and dynamic graphing programs. Connections and applications to various disciplines, especially physics and economics, are investigated at length. At the conclusion of this course, students will be encouraged to take the Advanced Placement Calculus A/B test. (Graphing calculator required).
Pre-requisites: Math Analysis and Teacher approval

Religion

Course	Credit	Length	Pre-requisite
Religion I	1	Year	
Religion II	1	Year	Religion I
Religion III	1	Year	Religion II
Religion IV	1	Year	Religion III

Philosophy of the Religion Department

In keeping with Franciscan motto of education, "In Sanctitate et Doctrina" (In Holiness and Learning), the Roger Bacon religion department provides within its curriculum a solid intellectual understanding of Christian faith with opportunities designed to foster the student's moral and spiritual development. In keeping with the ideals proclaimed by the Second Vatican Council, we recognize the unique giftedness of each student in his or her journey of faith and appreciate the religious pluralism of our world and our Roger Bacon community. The courses are grounded in the two-fold foundation of the Scripture and Tradition as illuminated by the official teaching authority of the Roman Catholic Church. The religion department feels a special responsibility for encouraging community service among its students, for holiness must be demonstrated by a life of service to others.



Sequence of Courses

Religion I	Franciscan Background, Personal Growth, and Roman Catholic Christianity Hebrew Scriptures
Religion II	Religions of the World Christology
Religion III	Church History Sacraments
Religion IV	Vocations Morality and Social Justice

Franciscan Background, Personal Growth, and Roman Catholic Christianity

This course begins with an understanding of our Franciscan heritage. It then addresses the intellectual, emotional, and spiritual development of the freshman student, with a special emphasis on student identity and sexuality. Finally, it gives a general introduction to the development of faith according to the Christian tradition from a Roman Catholic perspective.

Hebrew Scriptures

This course is a survey of the Hebrew Scriptures. It begins by teaching the student how to read, understand and apply a Biblical text. It then studies the various books of Hebrew Scriptures, with special emphasis placed on the Torah. The historical and prophetic books as well as the various types of wisdom literature are also covered.

Religions of the World

This course begins by defining what “religion” is, how “religious awareness” has developed and is still developing, and how religion continues to be an important aspect of our world. The course introduces the concept of cultural/religious pluralism in order to encourage appreciation, cooperation and peace among all of the world’s cultures, nations and religions.

Christology

This course explores the person and the message of Jesus as found in the four gospel portraits of Christ. The background, major themes and content of each gospel are discussed. Special emphasis is placed on calling the student to live the Gospel message.

Church History

This course traces the development of Christianity, and particularly Roman Catholicism, from its Judaic origins through the major historical periods of the Church. The focus throughout this historical study is understanding the involvement of humanity in God’s plan of salvation.

Sacraments

This course is designed to help students recognize the presence of God’s grace in their lives, realize how they can share their sacramental awareness through symbols and appreciate the importance of rituals in their spiritual lives. The seven sacraments of the Catholic Church are emphasized.

Vocations

This course challenges each person to understand the universal call to holiness. It focuses on sexuality, love, and interpersonal relationships in light of the Gospels. It emphasizes the individual call to single, married, religious, or ordained life.

Morality and Social Justice

This course examines various methods of making moral decisions and the core concepts of conscience, sin, freedom, law, and dignity. The student then is called to apply these to Christian life.

Science

Course	Credit	Length	Pre-requisite
General Science	1	Yr.	Placement Test & TR
Physical Science	1	Yr.	Placement Test & TR
General Biology	1	Yr.	General Science / TR
Biology (CP I or CP II)	1	Yr.	Physical Science / TR
Honors Biology	1	Yr.	Placement Test
Chemistry	1	Yr.	CPI Biology / Algebra 1
Honors Chemistry	1	Yr.	Honors Biology
Materials Science	1	Yr.	Biology
Physics (CP I or CP II)*	1	Yr.	Chemistry / TR
Anatomy/Physiology	0.5	Sem.	CPI Biology and Chemistry /TR
Zoology I	0.5	Sem.	≥ “C” in Biology
Zoology II	0.5	Sem.	≥ “C” in Biology
Introduction To Engineering	0.5	Sem.	Geometry
AP® Biology	1	Yr.	Chemistry/CPI Biology / TR
AP® Chemistry	1	Yr.	Chemistry /TR
AP® Physics*	1	Yr.	Physics, and TR

**Students who plan to take AP Physics must take CP I Physics during the junior year.*

General Science

General Science explores the fundamental principles of the physical, earth, and space sciences. Laboratory experience is included.

Physical Science

Physical Science is an introductory course in chemistry, physics, meteorology, geology and space science. It is designed to help the student prepare for year long courses in biology, chemistry and physics. Laboratory is an essential component used to illustrate these concepts.

General Biology

General Biology is a survey class of the fundamentals of biology, including cells, heredity, evolution, and diversity of organisms. Review for the Ohio Graduation Test is included.

CP II Biology

This is a survey class in biology focusing on the study of cells and their environment, energy, metabolism, photosynthesis, respiration, cellular energetics, reproduction, genetics, and classification and diversity. Laboratory experience is included. Review for the Ohio Graduation Test is included.

CPI Biology

Lab Biology explores the molecular basis of life, cells and their environment, energy and metabolism, photosynthesis and respiration, and reproduction and genetics. The diversity of all living things is also studied. Laboratory experience is an essential component of this course. Review for the Ohio Graduation Test is included.

Honors Biology

Honors Biology explores in depth the molecular basis of life, cells and their environment, energy and metabolism, photosynthesis and respiration, and reproduction and genetics. The diversity of all living things is studied also. Laboratory experience is an essential component of this course. A research project is required.

Chemistry

This course includes atomic theory and history, atomic bonding, the periodic table, chemical nomenclature, ionic charge and oxidation numbers, chemical/physical changes, chemical equations, molar conversions, stoichiometry, phases of matter, gas laws, solubility, acid & bases, and nuclear chemistry. There is lab work and demonstrations to give students hands-on experience.

Honors Chemistry

This is designed for the students in the Honors program. Subjects emphasized include atomic theory and its influence on bonding, the periodic table, chemical nomenclature, ionic charge and oxidation numbers, chemical/physical changes, chemical equations, molar conversions, stoichiometry, phases of matter, gas laws, solubility, acid & bases, and nuclear chemistry. There is extensive lab work to support and illustrate information presented in lecture. OGT review is included.

Materials Science (replaces CPII Chemistry; offered as elective for CPI seniors)

Materials science is a discipline that links applied chemistry directly to useful products. The content of the course introduces some basic chemistry concepts but focuses mostly on content in the areas of solids, metals, polymers, ceramics and glasses, composites, electronic materials, biomaterials, and nanotechnology. The content of the course has been developed with materials/support from ASM International, one of the largest technological/scientific communities focusing on metals, polymers, and ceramics. Lab work and demonstrations are included.

CPI Physics

This class is designed for students who wish to investigate physical laws and theories, relationships of physical phenomena, and the interrelationships of physics to other fields. CPI Physics will familiarize students with the principles of mechanics, electricity and magnetism, waves and optics. It will show the value of experimentation and mathematics in the development of laws and theories in physics and teach the basic skills of problem-solving and scientific thinking in the area of physics. The mathematical emphasis of this course prepares students for college level physics. Prerequisites: TR and TR for Math Analysis

CP II Physics

This course investigates physical laws and theories, relationships of physical phenomena, and the relationships of physics to other fields. It will familiarize students with the principles of mechanics, electricity and magnetism, waves and optics. Demonstrations and labs will be incorporated to reinforce understanding. The class will focus on the conceptual understanding of physics with less of an emphasis on the mathematical applications.

Prerequisites: 12th grade CP II level, TR

Anatomy and Physiology

Anatomy and Physiology is a college preparatory class designed for those who think they may like to have a career in the health fields or who simply want to know more about how the body works. The course includes dissections, group activities, lab activities, lecture, and class discussion. Prerequisites include a C or better in Honors or CPI Biology. This course is an elective course and does not replace any required science courses.

Zoology I (Invertebrate Zoology)

Zoology I is a survey course of the invertebrates in the animal kingdom. Animal characteristics, classification, anatomy, behavior, and development are the major topics that will be discussed. The Phyla include: Porifera, Cnidaria, Ctenophora, Platyhelminthes, Nemertea, Nematoda, Mollusca, Annelida, Arthropoda, & Echinodermata. The class will include labs, hands-on activities, dissections, class discussion, projects, and lecture. Prerequisites include a C or better in Honors, CPI, or CPII Biology. This course is an elective course and does not replace any required science courses. Students may take Zoology I & II courses in any order &/or may take one without taking the other.

Zoology II (Vertebrate Zoology)

Zoology II is a survey course of the vertebrates in the animal kingdom. Animal characteristics, classification, anatomy, behavior, and development are the major topics that will be discussed. The topics covered include the vertebrate chordates: Osteichthyes, Chondrichthyes, Agnatha, Amphibia, Reptilia, Aves, & Mammalia.. The class will include labs, hands-on activities, dissections, class discussion, projects, and lecture. Prerequisites include a C or better in Honors, CPI, or CPII Biology. This course is an elective course and does not replace any required science courses. Students may take Zoology I & II courses in any order &/or may take one without taking the other.

Introduction to Engineering

This course describes the field of engineering and engineering technology allowing students to explore technology systems and design processes. Through the course students will use math, science, technology, and writing to solve engineering problems. The course is primarily project-based and requires substantial participation by all students. The course also emphasizes teamwork, oral and written communication, and the impact technology has on society.

(Available to CP1 and Honors level students in grade 11-12 and CPII level students in grade 12.)

Prerequisite: Geometry.

AP® Biology

AP Biology is a second year course in Biology and follows the curriculum specified by the College Board. The course will cover molecules and cells, heredity and evolution, and organisms and populations. Laboratory experience is an essential part of the AP® curriculum.

AP® Chemistry

AP Chemistry reviews all basic concepts in chemistry, but focusing on more in-depth investigation/information on atomic theory, atomic structure, chemical bonding, chemical equilibria, stoichiometry, electrochemistry, acid/base chemistry, redox reactions, solubility, gas laws, chemical thermodynamics, organic chemistry, nuclear chemistry, reaction prediction, chemical nomenclature, and VSEPR theory. There is extensive lab work to support and illustrate information presented in class. This course follows the curriculum specified by the College Board. Prerequisites: Honors or Lab Chemistry and TR

AP® Physics B

This course provides an introduction to both classical and modern physics. AP Physics B is a 2nd year physics course that will prepare the student for the AP Physics B exam. This non-calculus, college-level physics course will cover Newtonian mechanics, thermodynamics, waves, sound, optics, electricity, magnetism, atomic physics, nuclear physics, and relativity. Students will build upon their first year of Physics in High School and delve more deeply into everyday problems that confront scientists and engineers. This course follows the curriculum specified by the College Board.

Prerequisites: CP I Algebra II, CP I Physics, and TR

Social Studies

Course	Credit	Length	Pre-requisite
Intro To Social Studies	0.5	Sem.	
World History	1	Yr.	
American History	1	Yr.	
AP® Modern European History	1	Yr.	Honors English / TR
AP® American History	1	Yr.	AP European History / TR
American Government	0.5	Sem.	American History
Economics	0.5	Sem.	American History
Psychology	0.5	Sem.	Gr 11 or 12 /TR
Psychology II	0.5	Sem.	Psychology / Gr 12 / TR
*Modern Asian History and Society	0.5	Sem.	Gr 11 or 12
* African-American History	0.5	Sem.	Gr 11 or 12
* History of American Foreign Policy	0.5	Sem.	Gr 11 or 12
* The Vietnam War	0.5	Sem.	Gr 11 or 12
* American Women's History	0.5	Sem.	Gr 11 or 12
* The American Civil War	0.5	Sem.	Gr 11 or 12

**Some electives are offered in alternating years (e.g., Vietnam War and the American Civil War)*

Introduction to Social Studies

This course is designed to introduce the students of the freshmen class to the various areas of the discipline of Social Studies. The subject areas covered will reflect the content areas mandated by the 10th grade Ohio Graduation Test, including Geography, American History, American Government, Law, Economics, and Citizen Knowledge. Furthermore, particular emphasis will be placed upon Geography so that students are properly prepared for World History in their sophomore year.

World History

This course traces the development of humanity from the Stone Age to the present. Emphasis is placed upon the political, economic, and social development of the various civilizations, especially those that comprise our Western heritage.

AP® Modern European History

Advanced Placement Modern European History is an intensive survey of the people, events, ideas, eras, and traditions that have shaped the institutions of our Western heritage. This course is designed to provide a comprehensive and analytical account of the various circumstances and processes by which modern Europe evolved. The scope of the course concentrates on that period of time from the Renaissance until the Post Cold War era. Students who take this class have the opportunity to earn college credit by passing the Advanced Placement Modern European History exam. This course follows the curriculum specified by the College Board.

American History

American History is an introduction to American civilization from the age of exploration and colonization through late twentieth century American history. The course focuses on central themes and issues in the development of American growth, institutional change, cultural development, and political democracy as Americans faced them in the past.

AP® American History

Advanced Placement American History is an introduction to American civilization from the age of exploration and colonization through late twentieth century American history. The course focuses on central themes and issues in the development of American growth, institutional change, cultural development, and political democracy as Americans faced them in the past. The Advanced Placement class is intended to be an intense, analytical study of the events that have helped to shape our nation. This course follows the curriculum specified by the College Board. Students who take this class may earn college credit by passing the AP U.S. History exam. Students may also receive college credit through Xavier University's *Collegium* program (additional fee to Xavier).

American Government:

This semester course is an examination of the structure and workings of the government of the United States. It is designed to educate students about the history of the American government, federalism, the Bill of Rights, the three branches of government, and important documents such as the Declaration of Independence and the Constitution. Students will also examine rulings of the U.S. Supreme Court, analyze political cartoons, and explicate articles concerning government issues. Students will also briefly examine state and local government.

Economics:

Part I examines the choice process from an individual viewpoint. Students are taught to identify the opportunity costs of any choice and evaluate these costs against the expected benefits. The economic systems of capitalism, socialism, communism, and government-assisted capitalism are compared. Part II will explain microeconomics in terms of the choices made by individual consumers and producers in the marketplace and how these individual choices affect supply and demand. It describes the organization of individual business firms and markets, failures of the market system, and individual income. Part III explains macroeconomics in terms of the choices made by the whole economy, as reflected in aggregate demand and supply. Topics explored include GDP, unemployment, inflation, the money supply, the banking system, and monetary, tax and fiscal policy.

Psychology I:

Psychology I is a survey course centering on the social implications of psychology versus the biological. Central themes of the course include: approaches in psychology, abnormal behavior, states of consciousness, therapies, group and social forces on behavior, and personality theories. The course is available to Honors, CP I, and CP II students

Psychology II:

Psychology II is a course for highly motivated students who desire more insight in the field of Psychology. Honors and CPI students may take this course. Biological implications such as the functions of the brain, cognitive development, principles of learning, and memory are major themes of the course. Recent advances in psychological research will also be reviewed.

Prerequisite: Psychology I & TR

Modern Asian History and Society

This course will consist of a survey of the history of modern Asian societies. The time-frame will encompass from approximately 1600 to the present, with the emphasis on the late 19th and 20th centuries. Topics will include key historical events that led to the end of the traditional societies, philosophies and religion, the impact of Imperialism and the coming of the West, economics and social conditions, and Asia in the modern world. The focus will be on China, Japan, and the Asian Pacific Rim.

African American History:

This course is designed to enable the students to read, study, comprehend, and think critically about the African-American experience. The course will trace the development of African-American culture from its complex origins in Africa to the new forms that it took as it blended with European and Native American cultures in America. The course will detail the wonderful and compelling achievements that persons of African descent have made individually and collectively as creators and bearers of culture and the arts in the United States. The problems of African-American oppression as slaves and as victims of legal segregation and discrimination will also be addressed

History of American Foreign Policy:

This course will be an analytical examination of American involvement in the twentieth century world. This course will allow the students the opportunity to grasp more deeply the many roles of the United States in the twentieth century. It is hoped that by studying the twentieth century, students can see historical patterns emerging from previous periods of American history as well as demonstrate the connections between domestic politics and economics, foreign policy, geopolitical strategy and military policy, human rights, and culture.

The Vietnam War: American History, Society, and Literature:

This course will be an analytical examination of the American involvement in the Vietnam War and the war's effect on American literature and society.

American Women's History:

This course is an analytical examination of the role of women in American history. Students will think about how women defined the issues of the times in which they lived, and how these perspectives usually differed from those of a male-oriented society.

The American Civil War:

The Civil War is a one semester elective which analytically examines the causes of the American Civil War, the events of the war, and the aftermath of the war. Particular attention is paid to the issues of sectionalism and slavery, the strategies and tactics of the war itself, and the difficult period of Reconstruction which followed.



In Holiness and Learning