



Bishop McDevitt High School
Course Selection Book
2023-2024
The Academic Program

Bishop McDevitt High School provides the opportunity to combine an excellent academic education with a broad liberal arts education enlivened with the Gospel message. This program will help develop analytical and communication skills, a sense of value of religion and of history, an appreciation for the fine arts, and mathematics and science skills with vigorous preparation for the world of advanced study and work.

Because we are a diverse people, and we recognize individual differences, McDevitt has structured its curriculum aimed at six levels of ability. Each student ought to be placed in courses equal to his/her ability level and performance. Each student then will have the potential to be successful at his/her particular level.

AP-Track	Advanced Placement (students are required to take the AP exam or be enrolled in the College in the High School program through Harrisburg University)
Honors H-Track	Honors
ACP Track	Accelerated College
Prep Level 2 (CP)	College Prep
Level 1	College Prep

The College Prep track is subdivided into ACP, Level 2 and Level 1 courses.

Each student must schedule at least 6 major courses or credits for the year. Mandated minor courses must be scheduled in the sequence directed by the school. The school day consists of nine (9) class periods including the lunch period. All students must have a full lunch period scheduled every day.

Graduation Requirements

Bishop McDevitt High School, requires a minimum of 24 credits, earned in grades 9 through 12 to receive a diploma. The following is the mandated distribution of courses:

Religion	4 credits
English	4 credits
History	4 credits
Science	3 credits
Mathematics	3 credits
Intro to Business	.5 credits
Phys. Ed	1 credit (Note: .25 credit of Phys. Ed is required each year)
Wellness/Health	.25 credits
Electives	Selected as needed to acquire sufficient credits

These are minimum requirements. Since each college and specific programs in each college have special requirements for admission, it is important for each student to be sure that his/her high school course selections will meet specific college requirements. The guidance counselor and college websites are the best sources of information. College admission may demand at least two years of a modern language although it is not a graduation requirement. Please note that in addition to the required classes listed above, students must complete service hours as part of the Graduation Requirements.

All FRESHMEN MUST enroll in (CP) Intro to Bus and Technology

All SOPHOMORES must enroll in (CP) Wellness and Life Management

Course Selection Procedures

You must select 6 major courses or credits. The required courses for your grade are published in the Course Selection Booklet. You choose the level and your elective courses. You do not need to choose Physical Education; this course will be automatically placed on your schedule. **Every student is required to take Physical Education every year. This is a requirement for graduation. Heavy course load is not an acceptable excuse for the waiving of Physical Education. Students should consider their course work expecting Physical Education to be on their schedule.**

Be sure to check graduation requirements before choosing courses. In the event that a selected course cannot be scheduled, your alternate selections will be used. Sophomore, Junior and Senior classes will register for courses online.

Students who do not complete their course selection by the due date will have their courses selected by the Assistant Principal for Academics. They will not be permitted to make any changes.

IMPORTANT NOTE TO ATHLETES:

The clearing house requires you to have 16 approved credits. Please note that Religion, Business, Home Economics, Music, minor courses and any level 1 classes cannot be used in this total. **Classes not approved by the NCAA will be marked as such in the catalog.**

Suggested Sequence: 4 credits of Social Studies
 4 credits of English
 3 or 4 credits of Mathematics
 3 or 4 credits of Science
 2 or more credits of Electives (see important note above)

IT IS IMPORTANT THAT ALL ATHLETES MEET WITH THE NCAA COORDINATOR REGULARLY TO MAKE SURE THEY ARE IN COMPLIANCE WITH ALL OF THE NCAA REGULATIONS.

*******Religion *******

PLEASE NOTE: THE NCAA DOES NOT ACCEPT ANY RELIGION CLASSES

FRESHMAN RELIGION

100 Religion I Level 1 1.00 credit

The Freshman Religion course offers a comprehensive introduction to Catholicism so that students gain a foundational understanding of the Faith. Topics covered include: Revelation, The Holy Trinity, Christology, the Blessed Virgin Mary, the Church, Sacraments and Catholic devotional practices. Students will become familiar with basic terminology and prayers and will be given the opportunity to apply this knowledge in practical ways throughout the year. By the end of this course students will better understand the nature of God and the Church, as well as what it means for them personally.

103 (CP) Religion I Level 2 1.00 credit

This course offers a comprehensive overview of Catholicism. It serves as a foundation for other high school religion courses and faith experiences. Topics include: the articles of the Nicene Creed, Sacraments, celebration of the liturgical year, human sexuality, the practice of prayer, the customs of the Church, the lives of the saints and development of spirituality. Students are led to better understand Jesus Christ and their commitment to their parish community and apply their beliefs to contemporary living.

SOPHOMORE RELIGION

110 Religion II Level 1 1.00 credit

This course explores both the Old and New Testaments and follows the Diocesan curriculum. It is designed for students to be able to identify key Biblical figures, define Biblical vocabulary and trace the thread of covenant making from the creation stories in the Old Testament through its fulfillment in the New Testament. Throughout this study students are encouraged to deepen their relationship with Jesus through personal prayer and Christian living.

113 (CP) Religion II Level 2 1.00 credit

This second level of religious study encompasses the study and use of Sacred Scriptures. The first semester explores the Hebrew Scriptures with special emphasis on the establishment of the covenant between God and the Chosen People and the development of that covenant through the time of the kings and prophets. The second semester presents an overview of the Christian Scripture. Centering on the person of Jesus as the fulfillment of the covenant begun in the Hebrew Scriptures, students are exposed to the good news of the Gospels and encouraged to develop a personal relationship with Jesus through personal prayer and Christian living.

JUNIOR RELIGION

120 Religion III Level 1 1.00 credit

This junior course presents an overview of basic concepts in moral theology as well as specific moral issues that present themselves in our culture. Following the Diocesan curriculum, this third level of religious study will examine the moral and social teachings of the Catholic Faith while connecting these teachings to everyday situations. Students also are encouraged to deepen their relationship with Jesus Christ through prayer and living the Christian Faith.

123 (CP) Religion III Level 2 1.00 credit

This junior course presents an overview of basic concepts in moral theology as well as specific moral issues that students educated in the Catholic Faith should know. Key principles of Catholic social teaching are also examined.

125 (H) Religion III Honors 1.00 credit

***Prerequisite – (CP) Religion II - 93%**

This junior course is an overview of concepts in morality and looks at specific moral issues that present themselves in our culture. Key principles of Catholic social teaching are examined. At the Honors level students will delve deeper into the official documents of the Church--such as the Catechism of the Catholic Church, Papal Encyclicals, Apostolic Exhortations, writings of the saints, etc. Students will be required to effectively communicate what they have learned through essays and formal/informal oral presentations.

SENIOR RELIGION

130 Religion IV

Level 1

1.00 credit

During the first semester, this class will focus on the main events of the 2000 year history of the Catholic Church. During the second semester, the focus is on developing a better relationship with God as well as gaining a deeper understanding of the different vocations in the Catholic Church.

133 (CP) Religion IV

Level 2

1.00 credit

This course is an overview of Church History and Vocation. The first semester begins with Ecclesiology (what is the Church?) and then progresses through the Church's 2000 year history. Students will examine, discuss, and analyze Catholic historical trends, Church Fathers, Saints, heresies, councils and Church documents to gain a broad understanding of how the Holy Spirit had guided the Church in every age. The second semester challenges the students to live out the universal vocation to holiness in everyday life and examines different Vocations and states of life (Priesthood, Consecrated/Religious Life, Marriage, and single life)., Students will also be introduced to the "Theology of the Body" by Pope St. John Paul II.

135 (H) Religion IV

Honors

1.00 credit

***Prerequisite – (CP) Religion III -93%**

This course is designed for those who have an interest in learning higher level Theology. The first semester course begins with Ecclesiology (what is the Church?) and then progresses through the Church's 2000 year history. Students will examine, discuss, and analyze Catholic historical trends, Church Fathers, Saints, heresies, councils and Church documents to gain a broad understanding of how the Holy Spirit has guided the Church in every age. The second semester course challenges the students to live out the universal vocation to holiness in everyday life and examines different Vocations and states in life (Priesthood, Consecrated/Religious Life, Marriage, and single life). Students will be introduced to the "Theology of the Body" by Pope St. John Paul II and will gain a deep understanding of how to be joyful witnesses to God's plan for marriage and consecrated life.

INTERNATIONAL STUDENTS

140 Religion I – Catholicism

Level 1

1.00 credit

This course introduces International students to the beliefs of Catholicism. It is intended to help students learn about God and what Catholics believe about God. Some topics covered in this course include: Monotheism, Creation, the Bible, the Ten Commandments, the teachings of Jesus and the Apostles, the Church, the Sacraments and the basic tenets of the Catholic faith.

*****English*****

A summer assignment is required for EACH course. Assignments will be available on-line at www.bishopmcdevitt.org in early June. These assignments will count as major grades for each course.

Incoming freshmen should consult placement test results to select the proper course level.

Prerequisite averages for level changes.

From Level 1 to CP Level 2 - 90% average

From CP Level 2 to ACP - 93% average

From CP Level 2 to Honors - 93% average

From ACP to Honors - 93% average

From Honors to Advanced Placement - 93% average

FRESHMAN ENGLISH

200 English I

Level 1

1.00 credit

This course is designed for students to strengthen comprehension and writing skills. Literary selections focus on a variety of genres of high interest with an emphasis on usage, grammar and vocabulary review. Creative writing is stressed along with a mini introduction to the research process and literary analysis. **(NOT APPROVED BY THE NCAA)**

203 (CP) English I

Level 2

1.00 credit

This course entails the study of the major genres of literature. The short story, novel, poetry, drama and essay are included, providing an overview of various styles of writing. Composition is emphasized with the introduction of the research paper and elements of the Explication de Texte as well as many creative pieces. Library research skills are included.

205 (H) Humanities English I

Honors

1.00 credit

***Prerequisite--Students must meet the criteria for the Honors class based on the Performance Series test.**

This course is the first half of a rigorous course of study. The Humanities program begins with the origins of the universe and ends at the completion of sophomore year with the French Revolution and its ramifications. The major developments of mankind are traced in selected literary works which follow historical trends and reveal major literary disciplines. Writing assignments are frequent, formal and challenging with the expectation that students who enroll in the course already possess a proper sense of style along with a working knowledge of grammar. **Humanities English I must be taken in conjunction with Humanities History I.**

SOPHOMORE ENGLISH

210 English II

Level 1

1.00 credit

This course focuses on the writing process by engaging students in a variety of writing activities including art responses, personal narratives, expository and persuasive writing. Active reading is emphasized through a broad analysis of various literary genres including poetry, short story, novel, and drama. Grammar and vocabulary are reviewed within the study of literature. A shortened version of the research paper as well as the Explication de Texte are highlighted. **(NOT APPROVED BY THE NCAA)**

213 (CP) English Literature II

Level 2

1.00 credit

***See Prerequisites for level changes**

This course includes the study of the major works of English Literature from the Old English period through the 20th Century. The chronological approach will help students understand the development of the English language as well as various literary genres including the epic, short story, legend, novel and drama. Students will improve their composition skills through frequent written assignments. A research paper and an Explication de Texte are required.

214 (ACP) English II, British Studies English

ACP

1.00 credit

***See Prerequisites for level changes**

British Studies encompasses an ambitious study of early British history and culture through literature. *Beowulf* and *The Canterbury Tales* provide lessons concerning medieval life while the majority of the year focuses on Shakespeare's history plays: *Richard II*, *I Henry IV*, *II Henry IV*, *Henry V* and *Richard III*, to show lessons in political struggle and leadership. It also surveys the difference between true history and fiction. Composition is stressed through a variety of group projects, both research and creative in nature, as well as the Explication de Texte. Performances and cumulative projects are utilized to enhance the understanding of Shakespeare. This course is team-taught and must be taken in conjunction with British Studies History.

215 (H) Humanities English II

Honors

1.00 credit

***See Prerequisites for level changes**

MUST be taken in conjunction with Humanities History II or AP European History

The Humanities sequence (Humanities I and II, English and History) is a chronological program which coordinates history and literature to build a framework around religion, philosophy, anthropology, science, art, music, grammar, genre, etc. mesh to reveal the complex nature of humanity. The scope of the program necessitates two academic years, providing a continuity and flexibility which is unique and demanding. Writing assignments are frequent and challenging with an emphasis on group projects, independent studies of literature, and the continued mastery of the research paper and the Explication de Texte.

JUNIOR ENGLISH

220 English III, American Literature Level 1 1.00 credit

This literature course covers the five major genres of literature: Oral Tradition, Drama, Fiction, Poetry, and Non-Fiction. Selections from these genres range from the oral works of early America, the Revolutionary War, American Renaissance and Civil War Eras and ends with a diversity of contemporary works. Students are required to develop skills in reading comprehension, literary analysis, vocabulary, grammar, and essay writing. A review of the research process with a brief research paper and an Explication de Texte paper are required. Creative writing and projects enhance each student's "American Experience". **(NOT APPROVED BY THE NCAA)**

223 (CP) English III, American Literature Level 2 1.00 credit

***See Prerequisites for level changes**

This academic class covers the breadth of American Literature. Selections range from the oral works of early America, the Revolutionary War, American Renaissance and Civil War eras and ends with the diversity of contemporary authors. Students develop skills in vocabulary, grammar, literary and critical thinking through close work with literature. Formal writing and research are emphasized through the explication- de-texte, essay writing and a research paper, as well as through multiple creative assignments. Projects utilize current technology to enhance each student's "American Experience".

224 (ACP) English III, American Literature ACP 1.00 credit

***See Prerequisites for level changes**

This rigorous academic class explores the connection between history and the breadth of American Literature. Students consider essential questions about each time period and then read to discover the answers in literature and in their own lives. The stoic Puritans and the Revolutionists ask us about the price of freedom. The Romantic and Transcendental Movements asks us to consider the importance of the individual. Realism questions what divides a nation, and Regionalism and Naturalism make us wonder about what makes a place unique. The Harlem Renaissance asks what is modern and how can people honor their heritage. Writings and research are emphasized through the Explication de Texte and multiple creative and expository writing assignments. Projects utilize current technology to enhance each student's American Experience.

225 (H) English III, American Literature Honors 1.00 credit

***See Prerequisites for level changes**

This class will explore the development of American Literature through a thematic approach, by employing such American themes as rugged individualism, freedom, liberty and the American dream. The course will begin with an in-depth study of rhetorical analysis where the students will gain insight into how language is used to form arguments, to sway an audience, and for varied purpose and occasion. The SOAPStone method of rhetorical analysis will be utilized to form the class's foundation of study. Authors' use of language and writing styles will be considered closely, as students are required to identify varied rhetorical techniques. The course's thematic approach will showcase the literature, not only through its historical context, but also as a part of America's growing perspective and

identity. Students will compare these shifting perspectives through written analysis, debate, visual presentations, and group presentations. A research paper, Explication de Textes, and various writing and creative assignments are required. Emphasis on the American novel through independent study is included.

227 (AP) American Literature/English Language and Composition AP 1.00 credit

***See Prerequisites for level changes- IF YOU DO NOT MEET THE PREREQUISITE, YOU WILL NOT BE ABLE TO OVERRIDE**

This class will explore the development of American Literature through a thematic approach, by employing such American themes as rugged individualism, freedom, liberty and the American dream. The course will begin with an in-depth study of rhetorical analysis where the students will gain insight into how language is used to form arguments, to sway an audience, and for varied purpose and occasion. The SOAPStone method of rhetorical analysis will be utilized to form the classes foundation of study. Authors' use of language and writing styles will be considered closely, as students are required to identify varied rhetorical techniques. The course's thematic approach will showcase the literature, not only through its historical context, but also as a part of America's growing perspective and identity. Students will compare these shifting perspectives through written analysis, debate, visual presentations, and group presentations. A research paper, Explication de Textes and various writing and creative assignments are required. Emphasis on the American novel through independent study is included.

SENIOR ENGLISH

230 English IV, World Literature Level 1 1 .00 credit

This literature course explores and celebrates the history and culture of regions from around the globe through the study of a variety of genres. Students will improve their composition and comprehension skills through creative and research-based projects. **(NOT APPROVED BY THE NCAA)**

233 (CP) English IV, World Literature Level 2 1.00 credit

***See Prerequisites for level changes**

This academic course explores historically significant literature from around the world. The selections focus on the struggles and triumphs of the human condition that unite us all. Ancient to contemporary selections are read and analyzed, and utilized in various writing assignments including the Explication de Texte. Research assignments include learning the I-Search process. A modern novel rounds out this exciting course.

234 (ACP) English IV, Shakespeare and Modern Drama ACP 1.00 credit

***See Prerequisites for level changes**

This class will explore the history of drama from its beginnings in ancient Greece to the present day. Three plays by William Shakespeare and three by modern dramatists are studied as representative of the major genres of the dramatic form. All elements of drama will be highlighted as well as literary

analysis through the Explication de Texte and the research paper. Shakespeare's plays are studied as "script" as well as "text". Production and performance are additional course activities.

235 (H) English IV, Shakespeare and Modern Drama Honors 1.00 credit

***See Prerequisites for level changes**

Research and literary analysis are emphasized throughout this in-depth study of the history of drama. Three plays by William Shakespeare and three modern dramatists are analyzed as representative of the major genres of the dramatic form. A mature knowledge of the research/writing process is required as well as the ability to relate various characters, plots, and themes to the timeless circumstances of the human condition. Shakespeare's plays are studied as "script" as well as "text". Production and performances are additional course requirements. Students may opt to pay for and take the AP English Literature and Composition examination.

237 (AP) Shakespeare/English Literature and Composition AP 1.00 credit

***See Prerequisites for level changes - IF YOU DO NOT MEET THE PREREQUISITE, YOU WILL NOT BE ABLE TO OVERRIDE**

Summer Assignment: A poetry literary portfolio and the critical reading of a novel and a dramatic script including the writing of an Explication de Texte

AP English Literature is a specialized course for students who demonstrate an exceptional interest in and commitment to the study of literature. Students will have already developed strong writing and analytical skills. Students consider and explore the structure, meaning and value of each literary work and its relationship to the contemporary experience as well as to the time in which it was written. Shakespeare as well as Modern Drama is studied providing a broad interpretation of literary analysis. AP test genres are reviewed through the written analysis of the Explication de Texte. Students must pay for and take the AP English Literature and Composition examination.

ELECTIVES

240 (CP) Composition and Writing Level 2 .5 credit

**** JUNIORS and SENIORS ONLY****

This elective course is designed to build confidence as well as improve writing skills. Both fiction and nonfiction writing styles will be explored and developed using the writing process. A writer's autobiography, the essay, the short story, poetry and satire are a sampling of the genres practiced throughout the course. Students will keep a journal and a portfolio. This does not take the place of the sequential English course. *This full year course will meet every other cycle day.

250 (CP) Theater I Level 2 .5 Semester

251 (CP) Theater II Level 2 .5 Semester

Theatre I is a combination theory and performance based class designed for students to develop and apply fundamental skills for acting. Topics studied will include the history of

theatre, stage types and staging, sensory experiences, speaking/articulation, blocking, movement, character analysis, script analysis, and dramatic reading. Performance will be frequent and will make up a major part of a student's grade and will be evaluated on specific criteria per unit.

Theatre II is a continuation of these skills with the incorporation of musical theatre, original script writing, student facilitated production, and alternatives to traditional theatre. (Theatre I is a prerequisite for Theatre II)

*****Social Studies*****

Incoming freshmen should consult placement test results to select the proper course level.

Prerequisite averages for level changes.

From Level 1 to CP Level 2 - 90% average

From CP Level 2 to ACP - 93% average

From CP Level 2 to Honors - 93% average

From ACP to Honors - 93% average

From Honors to Advanced Placement - 93% average

EVERY STUDENT IS REQUIRED TO COMPLETE A NATIONAL HISTORY DAY (NHD) PROJECT EVERY YEAR.

FRESHMAN HISTORY

300 World History and Culture Level 1 1.00 credit

The scope of this global approach to learning world history spans the development of the ancient civilizations to the Renaissance. The content, concepts and supportive skills direct and reinforce a firm foundation for historical thinking. Geography and historical thinking skills are stressed and research skills are developed. **(NOT APPROVED BY THE NCAA)**

303 (CP) World History and Culture Level 2 1.00 credit

This course highlights the world's great civilizations from ancient times to the Renaissance. The main objective of this course is to investigate how the geographic, economic, political, and cultural factors have shaped and affected modern nations.

305 (H) Humanities History I

Honors

1.00 credit

This course is the first half of a sequential Humanities program beginning with creative and human evolution and concluding at the end of the sophomore year, with the French Revolution and its ramifications. The historical framework coordinates with the literature and includes aspects of philosophy, religion, anthropology, science and art. **(Must be taken in conjunction with Humanities English I)**

SOPHOMORE HISTORY

310 Modern World Studies

Level 1

1.00 credit

Modern World Studies is broken into two areas of study. The first area of the course emphasizes the study of geography; the second area of the course focuses on world history, with an emphasis on Europe, from the 18th century to the present. Some of the geographical topics that will be emphasized will include the five themes of geography, land, climate, vegetation, population and culture. Some of the historical topics will include the French Revolution, imperialism, and World War I. Modern World Studies is designed for students to be able to identify key concepts, list and define vocabulary, and develop an interest in the content area. **(NOT APPROVED BY THE NCAA)**

313 (CP) Modern World Studies

Level 2

1.00 credit

***See Prerequisites for level changes**

Modern World Studies is broken into two areas of study. The first area of the course emphasizes the study of geography; the second area of the course focuses on world history, with an emphasis on Europe, from the 18th century to the present. Some of the geographical topics that will be emphasized will include the five themes of geography, land, climate, vegetation, population and culture. Some of the historical topics will include the French Revolution, imperialism, and World War I.

314 (ACP) British Studies History

ACP

1.00 credit

***See Prerequisites for level changes**

This team-taught course begins with an analysis of early and medieval English history and progresses into an in-depth, rigorous study of the reigns of English Kings, particularly Richard II through Richard III. Students will read Shakespeare's history plays Richard II, I Henry IV, II Henry IV, Henry V and Richard III and are expected to be able to distinguish between the actual history of the time period and the dramatic license taken by Shakespeare to enhance the plays. Performances and cumulative projects are utilized to enhance the understanding of Shakespeare and the history. This course must be taken in conjunction with British Studies English.

315 (H) Humanities History II

Honors

1.00 credit

***See Prerequisites for level changes**

(Must be taken in conjunction with Humanities English II)

This course is the second half of a team-taught chronological program of study. The content of this sophomore honors history course commences with the review of the middle ages' history and systems

and ends with the Napoleonic Era. The Humanities sequence (Humanities I and II, History and English) is an historical and literary anthology in which man, his nature, his relationship to God, his relation to men and things which make up his existence and environs is examined. A chronological structure coordinates the history and literature to build a framework around which religion, philosophy, anthropology, science, art, music, grammar, genre etc., mesh to reveal the complex nature of mankind.

350 AP European History* AP 1.00 credit

***See Prerequisites for level changes**

*** This is a core history class for sophomores but can be taken as an elective by juniors and seniors**

This class introduces students to the political, economic, religious, social, intellectual and artistic trends that shaped Europe from the 1500's to the present. Students will acquire knowledge of the basic chronology of events and movements from this period as well as develop the ability to analyze historical documents and express historical understanding in writing. As part of the Advanced Placement program, the course prepares students for the AP European History exam. *Must be taken in conjunction with Humanities II English for sophomores.

JUNIOR HISTORY

320 American History I/Government Level 1 1.00 credit

This course examines the major turning points in early American history beginning with the arrival of Europeans to North America and the subsequent development of English colonies into the United States of America. The study then traces the history and government of the United States to the assassination of President Lincoln. American government terminology is incorporated into lessons. **(NOT APPROVED BY THE NCAA)**

323 (CP) American History I/Government Level 2 1.00 credit

***See Prerequisites for level changes**

This is a survey course in American history and government. Study begins with the incorporation of cultures from Europe and Africa into North America and ends with the assassination of President Lincoln. The course is designed for students to be able to identify key historical figures, analyze historical data, and compare influential eras.

325 (H) American History I/Government Honors 1.00 credit

***See Prerequisites for level changes**

This course examines the major turning points in early American history beginning with the arrival of Europeans to North America and the subsequent development into English colonies and then into the United States of America. It traces the history and government of the United States to the assassination of President Lincoln. American government terminology is incorporated into lessons.

The curriculum is rigorous and demands that students investigate historical topics in great depth and participate in several research projects.

SENIOR HISTORY

330 American History II/Economics Level 1 1.00 credit

This is a survey course that is designed as a continuation of United States history I. Study begins with Reconstruction and concludes with current day history, politics, and economics. General economic terminology is incorporated into lessons and students should be able to identify key historical data, and compare influential eras at the conclusion of the course. Along with opportunities for independent research throughout the school year, all students enrolled in this course must complete a National History Day project. Periodic due dates will occur throughout the first half of the school year. **(NOT APPROVED BY THE NCAA)**

333 (CP) American History II/Economics Level 2 1.00 credit

***See Prerequisites for level changes**

This is a survey course that is designed as a continuation of United States history I. Study begins with Reconstruction and concludes with current day history, politics, and economics. General economic terminology is incorporated into lessons and students should be able to identify key historical data, and compare influential eras at the conclusion of the course. Along with opportunities for independent research throughout the school year, all students enrolled in this course must complete a National History Day project. Periodic due dates will occur throughout the first half of the school year. Please reference www.NHD.org for specific details.

American History II/ Economics (college prep) emphasizes the interpretation of primary and secondary documents, promotes the mastery of content information, encourages the writing of critical essays and introduces historiography. Some overall topics included in this course are as follows: Reconstruction, Gilded Age, westward expansion, industrialism, imperialism, world war in the twentieth century, Jazz Age, Great Depression, New Deal, post-Cold War, and the United States at the end of the twentieth century and beginning of the twenty-first. Principles of economics are also incorporated into each chapter.

335 (H) American History II/Economics Honors 1.00 credit

***See Prerequisites for level changes**

This is a survey course which begins with the Reconstruction Era and ends with current events in U.S. government, economics, society, and culture. At the honors level, American history II/ Economics is presented in more detail than in the college preparatory course and opportunities are provided for greater in-depth, independent student research. Along with opportunities for independent research throughout the school year, all students enrolled in this course must complete a National History Day project. Periodic due dates will occur throughout the first half of the school year. Please reference www.NHD.org for specific details.

American History II/ Economics (honors) emphasizes the interpretation of primary and secondary documents, promotes the mastery of content information, encourages the writing of critical essays and introduces historiography. Some overall topics included in this course are as follows: Reconstruction, Gilded Age, westward expansion, industrialism, imperialism, world war in the twentieth century, Jazz Age, Great Depression, New Deal, post-Cold War, and the United States at the end of the twentieth century and beginning of the twenty-first. Principles of economics are also incorporated into each chapter.

337 (AP) American History II/Economics AP 1.00 credit

***See Prerequisites for level changes**

This course is designed to provide a college-level experience in United States history for twelfth grade students and prepare them to be successful on the Advanced Placement United States History examination. The class meets five times a week for 41 minutes each day (180 day school year). Due to school district regulations, A.P. U.S. History must be organized as a multi-year course because “Juniors” are required to take U.S. History I (at a variety of levels: level 1, college prep, honors), and “Seniors” are required to take U.S. History II (basic, academic, honors). Twelfth grade students have recently been permitted to enroll in U.S. History II (Advanced Placement). Therefore, many eleventh grade students who have taken U.S. History I at the “honors” level (not A.P.) have opted to continue their study of history at the “A.P.” level during their senior year.

Students may opt to take the Advanced Placement United States History course during their senior year, however, the emphasis of the course focuses mainly from the Civil War to the present. Juniors taking United States History I at the honors level are informed from the beginning of the school year concerning the Advanced Placement option during their Senior year. The teacher of United States History I (honors) also works in conjunction with the teacher of A.P. U.S. History. This approach has allowed students to become more familiar with the breadth of the United States history topics and themes in both United States I and II.

ELECTIVES

343 (CP) Introduction to Sociology Level 2 1.00 credit

This course is an elective for SENIORS ONLY and cannot be substituted for American History II

***Prerequisite- (CP) American History I - 90%**

This course is presented in two semesters. A study of basic sociological concepts, principles, and methods are investigated. The course provides students the opportunity to think like sociologists, to develop a sociological imagination, and to understand and appreciate the diversity in American social life.

Sociology is intended to give students a broad picture of the field with an emphasis on preparation for college and critical thinking. The course promotes a set of intellectual tools with which to more accurately understand the society in which one lives. Participation, discussion, and feedback are essential for success in this class. Group activities and out-of-class work are heavily emphasized.

345 (H) Psychology Honors 1.00 credit

This course is an elective for SENIORS ONLY and cannot be substituted for American History II.

***Prerequisite - (CP) American History I - 90%**

Psychology is the systematic study of individual human behavior and experience. The purpose of this course is to introduce the student to the content, terminology, methodology, and application of the discipline. This survey course contains an introduction followed by four units based on the physiological,

cognitive, behavioral, and affective domains of psychology. This elective course stresses the application of academic content to the student's life.

Psychology introduces students to the scientific study of behavior and mental processes. Students will learn about approaches to psychology, the life span, and the workings of mind and body, personality, individuality, adjustment and breakdown, and social psychology. Students will be able to use this information to gain insight into one's life and the lives of those around you. Each week, students will be required to read online materials along with excerpts from the textbook, and complete homework assignments.

Psychology is designed as a general introduction to psychology. Some of the topics included are the history of psychology, the physiological basis of behavior, perception, learning, memory, intelligence, developmental psychology, personality, abnormal behavior and treatment and social psychology.

352 (CP) International Affairs, Geopolitics and Diplomacy - .5 Semester

The International Affairs elective will afford students the opportunity to investigate the broad field of international relations - that is, how countries interact with one another on the global level from political and economic perspectives. The course will generally follow a sequence which will cover an overview of the historical development of the study and practice of international relations, the major theories and perspectives on global interactions between nations, geopolitics and the geopolitical structure of the world's countries and regions, the role of diplomacy and negotiation in the construction and execution of foreign policy, warfare, terror, global political economy, international organizations, humanitarianism and current foreign policy issues and debates including poverty, hunger, communications, transportation, environmentalism, refugees and migrations, international, maritime and space law, varying forms of government, the potential for global governance, cultural exchange and others.

349 AP United States Government and Politics AP 1.00 credit

***See Prerequisites for level changes**

This course is an elective for JUNIORS AND SENIORS ONLY and cannot be substituted for either American History I/ Government or American History II/ Economics

This course is designed to provide a college-level, nonpartisan experience in United States government and politics for twelfth grade students and prepare them to be successful on the Advanced Placement United States Government examination. Meeting five times a week for 40 minutes, this course will introduce students to "key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States." Students will engage key political and governmental documents and Supreme Court decisions to better understand "the relationships and interactions among political institutions, processes, and behavior." Students will also be required to engage in specific practices unique to the study of government, including data interpretation and the development of evidence-based arguments. A political science research project or applied civics project will also be a required component of this course.

******* Business and Technology Department *******

**PLEASE NOTE: THE NCAA DOES NOT ACCEPT ANY
BUSINESS/TECHNOLOGY CLASSES**

The Business and Technology Department has five pathways that you can follow. All five pathways require you to take Intro to Business and Technology as a freshman. You are also encouraged to take any of the electives in the Business & Technology department, even if you are not interested in pursuing one of the pathways.

Business - Accounting Pathway: as a sophomore, you should take Accounting I; as a junior, you should take Accounting II, and as a senior, you should take Accounting III. AP Economics should be taken in either your junior or senior year.

Business - General Pathway: as a sophomore you should take Business Communications and/or Accounting I. As a junior, you should take Business Law and Marketing; as a senior you should take Management. AP Economics should be taken in either your junior or senior year.

Technology - Computer Science Pathway: in your sophomore and junior years, you should take Video Game Design, Python Programming, C++ Programming, and/or AP Computer Science Principles. In your senior year, you should take AP Computer Science A or any class that you did not take as a sophomore/junior.

Technology - Digital Arts Pathway: as a sophomore, you should take Graphics Design I. As a junior/senior, you should take Graphics Design II and/or Broadcast & Video Production. Web Design should be taken in either the sophomore, junior, or senior year.

Technology - Hardware Applications Pathway: as a sophomore you should take Microsoft Office Suite. As a junior/senior, you should take Introduction to Networking and/or Introduction to Computers. Robotics should be taken in either the sophomore, junior, or senior year.

400 (CP) Intro to Business and Technology Level 2 .5 semester

All freshmen are required to enroll in this course

***This course is a prerequisite for all technology courses. Required for graduation.**

This course is designed to introduce students to G-Suite apps as well as real world financial topics using technology. In the first quarter, students will learn how to navigate the G-Suite and Google Apps in both educational and financial applications. Students will develop financial literacy skills by utilizing the powerful features of word processing, spreadsheets, and presentation applications, which are relied upon in many educational and career-related environments.

The second quarter is designed to provide a foundation in such general business concepts as economics, finance, accounting, business law, marketing and other business systems. Digital citizenship and Internet safety will also be prominently featured.

409 (CP) Introduction to Networking

Level 2

.5 semester

***Sophomores, Juniors, and Seniors**

This course introduces students to the principles and structures of IP addressing and the fundamentals of Ethernet concepts in addition to network architecture, structure and functions. Students will be able to explain network technologies, explain how devices access local and remote network resources, describe router hardware, explain how switching operates, design IP addressing schemes, configure initial network device settings and configure monitoring tools. This class covers the architecture, components and operations of routers and switches in small networks. Students will be able to implement VLAN's, static routing, DHCP, NAT and ACL's.

410 (H) Web Design

Level 2

1.00 credit

***Sophomores, Juniors, and Seniors**

***Prerequisite – 85% or higher in (CP) Intro to Bus and Technology**

HTML: In the first half of the year, students will learn the most important topics of HTML, XHTML, and Cascading Style Sheets. First, students will learn to use XHTML to create Web pages and how to create hyperlinks in order to navigate documents on the web. Next, students will learn to use CSS to apply formatting across multiple pages. Students will then go on to explore formatting and layouts, including creating tables, forms, and frames.

DREAMWEAVER: In the second half of the year, students will learn step-by-step instructions and in-depth explanations of the features of Adobe Dreamweaver CS6. Students will first learn how to get started with Dreamweaver and how to create a website and develop a web page. Then, students will work with text, style sheets, images, and links. Next, students will learn to position page content with CSS and tables. Students will then focus on using styles and style sheets for page design and page layout. Next, students will learn about collecting data with forms. Then, students will learn to add content with AP Divs. Last, students will learn about adding media and interactivity with Flash and Spry, and creating and using templates, library items and snippets.

412 (CP) Graphics Design I

Level 2

1.00 credit

***Sophomores, Juniors, and Seniors**

***Prerequisite – (CP) Intro to Bus and Technology - 85%**

This course introduces students to the design process and the principles of design. Throughout the course the students will recognize that graphic design is everywhere. Emphasis will be placed on problem solving, relating graphic design to communication, and exploring options in the graphic design industry. Students will study the principles of design, color theory, and typography. Students will gain basic application skills to use Adobe Illustrator CS6, Photoshop CS6, and InDesign CS6; the leading software programs widely used in the graphic design field.

Throughout the year, the students are expected to master certain graphic skills, create effective visual communications, operate computers, and create professional looking products. A yearlong physical/e-portfolio will be created to showcase what students have accomplished.

Students are not required to be in an art course or to be overly artistic to take this course.

415 (H) Accounting I**Level 2****1.00 credit*****Sophomores, Juniors, and Seniors**

Accounting I offers students the opportunity to learn about the fundamentals of Accounting, beginning with the terminology to “speak” the language of business [Accounting]. Students will handle source documents, journals, ledgers, and financial statements. These basic accounting procedures along with activities presented at the end of each chapter designed to enhance Critical Thinking, Ethics in Action, and Financial Literacy are valuable both personally and in the business arena.

418 (H) Video Game Design**Honors****1.00 credit*****Sophomores, Juniors, and Seniors*****Prerequisite – 85% or higher in (CP) Intro to Bus and Technology**

The video game design course provides an opportunity for students to immerse themselves in the world of video game design and development. Students will explore conceptual and technical aspects of contemporary video game creation using Unity software, a robust and highly respected industry game development platform. This curriculum stems from the Unity Curricular Frameworks, and includes three larger modules focused on game design theory, the major aspects of game creation including programming, art, production and design, and exploration of the conceptual and technical implementation of elements within those domains.

In the first module, students will begin by exploring the critical thinking behind game design theory, story and game creation, and develop their own unique non-digital game. In the second module, students will focus on key aspects of video game design, writing and implementing code in the Unity editor and implementing elements of art and production, as they use basic features to create an initial game in Unity. In the final module, students will explore advanced constructs of game development such as level design, cameras, lighting, and audio, as they complete a capstone video game project. Students will then peer review video games created by their classmates, and use the iterative process to reflect on feedback provided on their own game and revise.

Over the course of the year, students will be engaging in discussions around current trends in the game industry and the future of the field. There will be a strong focus on project management for technical projects such as video game creation. This course will require accurate and thorough documentation, including game design documents and a game developer’s journal, as well as clear and consistent communication with classmates.

This course is an introductory level class on video game design and creation that does not require previous background in computer programming.

420 (CP) Business Law**Level 2****.5 semester*****Sophomores, Juniors, and Seniors**

This elective college prep course provides an overview of law and how it is applied in the world today. This course will provide a solid foundation for any student interested in going to law school or any student simply wanting to understand more about the laws that we are expected to abide by as a society today. Concepts addressed will include laws and the legal system, business ethics, constitutional rights, court systems, criminal law and procedure, civil law and procedure, contract law, offers and acceptance,

425 (H) Accounting II**Honors****1.00 credit*****Prerequisite – 85% or higher in Accounting I**

(H) Accounting 2 offers students the opportunity to expand their basic knowledge of accounting in the areas of: Processing and Reporting Departmentalized Accounting Data; Processing Accounting Data for Adjustments and Valuation; and Processing and Analyzing Accounting Data for a Corporation. A greater emphasis on conceptual understanding and financial statement analysis encourages students to apply accounting concepts to real-world situations and develop higher-level thinking skills to make informed business decisions. These higher-level thinking skills improve students' abilities in all areas whether these students pursue Accounting as a career or simply benefit personally from the knowledge gleaned in a course of this nature.

428 (CP) Marketing**Level 2****.5 semester*****Sophomores, Juniors, and Seniors**

This course is designed to teach students how to successfully market a company, products, and themselves. The 4 P's of marketing are emphasized as the product is traced from producer to consumer. During the class, students will develop a product, a marketing plan and an advertising campaign for a product. Several real-world applications will be provided to students as they go through the marketing process. Students will also learn how to speak and dress in a professional manner.

429 (CP) Management**Level 2****.5 semester*****Sophomores, Juniors, and Seniors**

This course is designed to teach students how to effectively manage a company. Leadership styles and theories are explored, helping students to identify and personalize their own, optimal leadership style. Students also learn what characteristics and skills make entrepreneurs successful. During the class, students will take a leadership style inventory and apply management theories in the classroom. Several real-world applications will be provided to students as they utilize these theories. Students will also complete a business simulation where they are the CEO of a company.

430 (H) Business Management**Honors****.5 semester****Prerequisites- 93% or higher in Intro to Business*****Sophomores, Juniors, and Seniors**

This course is designed to teach students how to effectively manage a company. Leadership styles and theories are explored, helping students to identify and personalize their own, optimal leadership style. Students also learn what characteristics and skills make entrepreneurs successful. During the class, students will take a leadership style inventory and apply management theories in the classroom. Several real-world applications will be provided to Students as they utilize these theories. Students will also complete two projects during the course. One is an entrepreneurial project where students create their own product and/or business idea and present it to the class. The other project is a project relating to international business and the global market.

431 (CP) Robotics I**Level 2****1.00 credit*****Prerequisite: 85% of higher in (CP) Intro to Bus and Technology*****Sophomores, Juniors, and Seniors**

In (CP) Robotics I, students will learn fundamental scientific methods and practices, such as the scientific method, observation, experimentation, data collection and analysis. They will investigate applied physics and mechanical concepts, systems thinking, and artificial intelligence. Students will explore how technology impacts daily life in the 21st century. Students will build, code, and manipulate their own technological designs to apply innovative ideas that improve existing processes. Students will practice the engineering design process. They will learn to work within constraints, identify multiple solutions to problems, and find the best possible solution through iteration. Students will hone valuable skills with problem-solving, troubleshooting, research and development, invention and innovation. Students will connect with the world of mathematics by applying their skills to a real-world setting. Students will learn to appreciate the value of mathematics in their daily lives.

432 (H) Robotics I**Honors****1.00 credit*****Prerequisite: 93% of higher in (CP) Intro to Bus and Technology*****Sophomores, Juniors, and Seniors**

Robotics is designed to teach core computer programming logic and reasoning skills, engineering, and engineering problem solving using a robotics context. The course is built around the concept of STEM education: science, technology, engineering and mathematics. Students will be given introductions to VEX EDR and Autodesk® Inventor® while learning key STEM principles through a process that captures the excitement and engagement of robotics competition. In Unit 5 students will be presented with an engineering challenge; they will need to build a robot to play a sport-like game. After this, the rest of the curriculum walks students through the design of their robot while presenting them with relevant STEM and Robotics principles. At the end of the course, students compete head-to-head with their robots. Once the robot is built, it can move around and avoid obstacles on its own, follow a line on the ground, move objects through an obstacle course or just accept commands from the supplied IR remote controller. Students can control the robots wirelessly. There is no limit to what students can do; add more parts, add another robot to play games; or program your own actions. This course is designed to inspire the next generation of engineers.

433 (H) C++ Programming**Honors****1.00 credit*****Prerequisite: 85% of higher in (CP) Intro to Bus and Technology*****Sophomores, Juniors, and Seniors**

Students learn how to plan and create well-structured programs. By the end of this class, students will have created programs and games that can be used outside of school. C++ is a powerful programming language used in the real world to create programs and games. As the chapters progress, students will cover more advanced topics, building on previous material. In each chapter, one or several related topics are covered. Concepts are moved through one step at a time by writing bite-sized, game-related programs to demonstrate each idea. At the end of each chapter, some of the most important concepts are combined in a single game. The last chapter of the book ends with the most ambitious project—one that harnesses

Students enrolled in Advanced Placement courses are required to take the AP® exam. Exam results will not affect the student's grade. This course has an AP® fee.

*****Mathematics*****

In order to guide the course selection of our incoming freshman and upperclassmen in selecting the appropriate level Mathematics course, please consider a realistic level of difficulty. In order to change course levels for courses where prerequisites can be overrode please consult the following:

- **Level 1 to CP - 90% final average**
- **CP to Honors - 93% final average**

No advancement of more than 1 level per year is permitted and this only applies to courses where prerequisites can be overrode.

FRESHMAN MATHEMATICS

To determine the appropriate level based on your placement test scores, please contact Admissions at Bishop McDevitt High School.

500 Algebra I

Level 1

1.00 credit

At this level concepts will be introduced at a gradual pace giving students the opportunity to strengthen fundamental skills and concepts. Students will deepen and extend their understanding of linear and exponential relationships. Students will engage in methods for analyzing, and using functions. Students will work with functions that include linear, exponential and quadratics. **(NOT APPROVED BY THE NCAA)**

502 Principles of Algebra

Level 1

1.00 credit

***Placement in this course is determined by Performance Series testing.**

****This is an intermediary course taken prior to Algebra I. Students who complete this course will be placed in Algebra I the following year.**

This course teaches the fundamental concepts and skills necessary to be successful in algebra. Topics include operations and properties of real numbers, equations, graphing on the coordinate plane and slope, and an introduction to exponents, polynomials, factoring, and radicals. **(NOT APPROVED BY THE NCAA)**

503 (CP) Algebra I

Level 2

1.00 credit

At this level it is expected that students will formalize and expand on Algebraic concepts established in previous coursework. Students will deepen and extend their understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend. Students will develop an understanding of using methods for analyzing and using functions. Students will move between multiple representations of functions including linear, exponential and quadratics.

523 (CP) Algebra II **Level 2** **1.00 credit**

***Prerequisite: 80% in (CP) Algebra I**

This course is an extended study of algebraic concepts, skills and applications of algebra through the development of a mathematical system and the examination of the real and complex numbers. The concept of relations and functions are explored and used to unify the course. It builds upon concepts started in (CP) Algebra I and adds exponential and logarithmic functions as well as more complex graphing.

525 (H) Algebra II **Honors** **1.00 credit**

***Prerequisite: 80% in Honors Algebra I**

This course is designed to provide the above average student with a strong background in mathematics. Essential concepts of the course are developed by means of lecture, problem solving, analysis, and research. The topics presented include linear equations, systems of linear equations, matrices, determinants, quadratic equations, parabolas, functions, powers, roots, radials, inequalities, exponential and logarithmic functions, polynomial and polynomial functions, rational functions, and quadratic relations.

530 Trigonometry **Level 1** **1.00 credit**

***Prerequisite: 80% in Geometry – Level 1**

This course is designed to provide the students with an introduction to basic trigonometric concepts and applications by building upon algebraic concepts. Topics include angles and angle relationships, trigonometric functions, right triangles, radian measure, circular functions, graphing trigonometric functions, trigonometric identities, and solving basic trigonometric equations. **(NOT APPROVED BY THE NCAA)**

533 (CP) Trigonometry/Analytic Geometry **Level 2** **1.00 credit**

***Prerequisite: 80% in (CP) Geometry or passing grade in (H) Geometry**

***A scientific calculator (TI 30 or above) is required**

The Trigonometry/Analytic Geometry course is designed to explore the concepts and applications of trigonometry using the right triangle approach. Topics presented include the fundamentals and applications of right triangle trigonometry with an introduction to the six trigonometric functions, trigonometric functions of general angles, reference angles and radian measure, graphing trigonometric functions, the unit circle, inverse trigonometric functions, trigonometric identities, solving trigonometric equations, solving and finding the area of oblique triangles, graphing and writing equations for parabolas, ellipses, and hyperbolas and exponential and logarithmic functions. Additionally, students will be exposed to various real-world applications of some of the topics covered in this course.

This college level calculus course culminates with the Advanced Placement test in Calculus BC in May. The concept of differential calculus is developed, including the derivatives of polynomial, trigonometric, exponential, and logarithmic functions, and their inverses are studied. Rules for differentiation and applications of derivatives are studied, including the chain rule, implicit differentiation, curve analysis, related rates, growth and decay, and kinematics. Numerical methods such as Euler's method and Newton's method are also covered. Second semester topics include: integral calculus and applications of integral calculus including topics such as area between curves; rotations of solids and average value of a function. Numerical integration methods such as Riemann sums are also presented. Additionally, the course includes multivariable calculus, vector calculus, Taylor and Maclaurin series representations of functions, and polar curves. All students must take the AP Calculus BC exam in May.

563 (CP) Statistics

Level 2

1.00 credit

***Prerequisite: 80% in (CP) Algebra II or a passing grade in (H) Algebra II plus completion of Geometry at the CP or Honors level**

IF YOU DO NOT MEET THE PREREQUISITES, YOU WILL NOT BE PERMITTED TO OVERRIDE.

***A scientific calculator (TI 30 or above) is required**

This course is an introduction to statistics and is intended to give students a general background in statistical techniques. The student should understand how statistics are developed and used and should be prepared for college level statistics courses. The course will cover data analysis and presentation, linear regression, basic probability, confidence intervals and hypothesis testing. All levels of Statistics courses will require a significant amount of analysis and mathematical writing that is different from previous math courses.

565 (H) Statistics

Honors

1.00 credit

***Prerequisite: 80% in (H) Algebra II or 93% in (CP) Algebra II plus completion of Geometry at the CP or Honors level**

IF YOU DO NOT MEET THE PREREQUISITES, YOU WILL NOT BE PERMITTED TO OVERRIDE.

***A scientific calculator (TI 30 or above) is required**

Honors statistics will offer the student an introductory investigation of statistical methods using the case study format as a major teaching tool. The student will learn the basic techniques of data analysis and presentation, linear regression, probability, confidence intervals and hypothesis testing. The student will then learn to apply these techniques to case studies and learn to interpret the results of their statistical analysis and explain what it means in the case study situation. All levels of Statistics courses will require a significant amount of analysis and mathematical writing that is different from previous math courses.

567 AP Statistics**AP****1.00 credit****Prerequisites: 93% in (H) Algebra II or 80% in (H) Pre-Calculus****Corequisite: You must have either completed Pre-Calculus (any level) or take Pre-Calculus (any level) concurrently with AP Statistics.****IF YOU DO NOT MEET THE PREREQUISITES, YOU WILL NOT BE PERMITTED TO OVERRIDE.*****A TI-84ce graphing calculator is required.**

This college level statistics course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. The course culminates with the Advanced Placement Test in Statistics in May. The students interpret univariate data, explore bivariate data, and learn probability theory, the normal curve, confidence intervals, and tests of significance, adhering to the curriculum outlined by the College Board. All levels of Statistics courses will require a significant amount of analysis and mathematical writing that is different from previous math courses.

570 Advanced Linear Algebra**AP****1.00 credit*****Prerequisite: Students must have completed Algebra 1, Algebra 2, Geometry, Pre-Calculus, and AP Calculus before enrolling in this course; an 80 in AP Calculus AB or AP Calculus BC.****IF YOU DO NOT MEET THE PREREQUISITES, YOU WILL NOT BE PERMITTED TO OVERRIDE*****A TI-84ce graphing calculator is required.**

Due to its broad range of applications, linear algebra is one of the most widely taught subjects in college-level mathematics and increasingly in high school. This college level study of linear algebra, designed for independent study, develops computational skills and theory in the study of the following topics: vectors, matrices, determinants, solving systems of linear equations, Gaussian elimination, linear transformations, orthogonality, vector spaces, Cramer's rule, eigenvalues and eigenvectors, and least squares approximation. Applications in the areas of biological and environmental sciences, business and economics, chemistry, computer science, physics and engineering, social sciences, and statistics will be explored.

*****Science Department*****

Incoming freshmen should consult placement test results to select the proper course level. Placement in Chemistry and Physics courses will be based primarily on their progress in mathematics. Students may move from one track to another if they meet the requirements listed for that course.

Prerequisite averages for level changes.

From Level 1 to CP - 90% Science average

From CP to Honors - 93% Science average and 90% English average

From Honors to Advanced Placement (AP) - 93% Science average and 90% English average

***Math assessment is required for entrance into AP Physics.**

FRESHMAN SCIENCE

600 Earth and Space

Level 1

1.00 credit

This course is designed to have students interpret and understand the world around them. Students will investigate and study the composition of the Earth and its effects on the Earth's formation, processes, landscapes, and weather patterns. Topics to be covered include, minerals, rocks, Earth's energy source, plate tectonics, earthquakes, and volcanoes. Practical and hands-on applications will be used to reinforce content. (NOT APPROVED BY THE NCAA)

603 (CP) Biology I

Level 2

1.00 credit

This course is an introduction to Biology surveying the characteristics of life, the chemistry of life, cellular biology (structure and function), genetics, heredity, evolution and ecology. Experiments are included with each unit.

605 (H) Biology I

Honors

1.00 credit

A first level course in Biology at the secondary level, structured around a series of major themes: science of investigation and inquiry, the history of biological concepts, cellular biology, complementarity of structure and function, evolution of biological diversity, genetic continuity, regulations and homeostasis, form and function of plants, and the fundamental principles of ecology and how these principles apply to environmental problems. These themes are presented through a variety of organisms which best illustrate the concept under study. Lab work supplements each topic.

SOPHOMORE SCIENCE

601 Biology I

Level 1

1.00 credit

*Prerequisite - Earth and Space

This course presents the principles of biology and biological application with minimal mathematics. Topics include the scientific method, cell biology (structure and function), evolution, ecology, and heredity. Hands-on activities and lab work supplements the topics. **(NOT APPROVED BY THE NCAA)**

613 (CP) Chemistry I

Level 2

1.00 credit

This course presents the principles of chemistry and chemical application with a strong mathematical foundation. Topics include properties of matter, the atom, atomic theory, chemical bonding, chemical nomenclature, chemical reactions, stoichiometry, solutions, and equilibrium systems if time permits. Laboratory experiments support the concepts being studied in class while giving the students practice with lab safety, proper equipment handling, and accurate data collection. Problem-solving techniques are an important part of the course.

615 (H) Chemistry I

Honors

1.00 credit

*Prerequisite- (H) Algebra I 80% AND (H) Biology I 80% or
(CP) Algebra I 93% AND (CP) Biology I 93%

An accelerated course introducing the topics of Chemistry. **These topics include but are not limited to** behavior of matter, atomic theory, **nomenclature, chemical reactions, stoichiometry, states of matter**, equilibrium, kinetics, **electrochemistry**, energies of reactions, **and nuclear or organic**). There is a definite emphasis on problem solving in each area. Laboratory experiments support concepts being taught **with a focus on documentation**.

JUNIOR AND SENIOR SCIENCE

610 Chemistry I

Level 1

1.00 credit

*Prerequisite - Algebra I AND Biology I

This course presents the principles of chemistry and chemical application with minimal mathematics. Topics include **but are not limited to** the scientific method, properties of matter, the atom, chemical bonding, chemical nomenclature, chemical reactions, solutions, and equilibrium systems. Practical application and hands-on activities will be used to reinforce content. **(NOT APPROVED BY THE NCAA)**

621 (CP) Chemistry II

Level 2

1.00 credit

*Prerequisite – (CP) Chemistry I - 80%

This course is designed to strengthen student's understanding and skills learned in Chemistry I and includes an introduction to College Chemistry. Topics include an in-depth look at chemical

629 AP Biology **AP** **1.00 credit**

***Prerequisite-** (H) Biology I 93% AND (H) Chemistry I 93% or
(CP) Biology I 95% AND (CP) Chemistry I 95% and
(H) English I 90% OR (CP) English I 93%

A course designed for students who have a strong interest in biological sciences and are capable of college level work. The course emphasizes the study of the four major themes of biology: evolution, energy, how living systems store, retrieve, transmit and respond to information essential to life processes, and how biological systems interactions possess complex properties. Stress is placed on mathematical analysis of laboratory investigations. Students electing this course must take the AP Biology Exam.

IF YOU DO NOT MEET THE PREREQUISITES, YOU WILL NOT BE PERMITTED TO OVERRIDE.

620 Environmental Science **Level 1** **1.00 credit**

***Prerequisites: Biology I AND Chemistry I**

This course allows students to study human interactions with other organisms and the physical environment. Topics of investigation include biomes, kingdoms of life, energy flow, and the cycling of matter through ecosystems. Students will learn to identify and understand environmental issues generated by humans. Hands-on activities and lab work supplement the lecture and clarify the topic. (**NOT APPROVED BY THE NCAA**)

633 (CP) Physics **Level 2** **1.00 credit**

***Prerequisite- Average Science Grade (CP) 85% and
(H) Algebra II 85% or (CP) Algebra II 90%**

***Co-Requisite: Trigonometry**

This course presents a limited mathematical approach to the traditional physics topics of mechanics, electricity, waves, and light. It is intended for students that wish to learn the content of physics but lack the mathematical background. Laboratory experiments support the concepts being studied in class while giving students hands-on practice with lab safety, proper equipment handling and accurate data collection.

635 (H) Physics I **Honors** **1.00 credit**

**Prerequisite- Average Science Grade (H) 85% or (CP) 93%
(H) Algebra II 85% or (CP) Algebra II 93%**

***Co-Requisite: Pre-Calculus**

A survey of classical physics including mechanics, electricity, waves, and light. This course differs from (CP) Physics I only in rigor of mathematical application. Laboratory experiments support the concepts being studied in class while giving students hands-on practice with lab safety, proper equipment handling, and accurate data collection.

IF YOU DO NOT MEET THE PREREQUISITES, YOU WILL NOT BE PERMITTED TO OVERRIDE.

637 (AP) Physics **AP** **1.00 credit**

***Prerequisite- Average Science Grade - (H) 95% or (CP) - 95% and**

Math - (H) Pre-calc 93%

Average English Grade - (H) English 90% OR (CP) English 93%

***Co-Requisite: Calculus**

An in-depth study of classical physics including: mechanics, electricity, waves, and light. Stress is placed on mathematical analysis of laboratory investigations. Students electing this course must take the AP Physics Exam.

IF YOU DO NOT MEET THE PREREQUISITES, YOU WILL NOT BE PERMITTED TO OVERRIDE.

ELECTIVES

640 (CP) Anatomy **Level 2** **1.00 credit**

*** SENIORS ONLY**

An introduction to anatomy and physiology that explores the human body from the cell to various organ systems. This course is designed for students who plan to pursue careers in the health field. Class activities, labs and projects follow the sequence of lectures to reinforce and clarify topics. Be prepared to dissect sheep organs and a cat, complete and analyze laboratory findings and write lab reports.

***Only one section of this course will be offered and will be filled on a first come, first served basis.**

641 (CP) Macro Anatomy **Level 2** **.5 credit**

*** SENIORS ONLY**

Macro Anatomy is a semester-long course designed for students NOT going into careers in the health field, but who would like to learn about the macro anatomy and physiology of the human body. Students should be prepared to study and label diagrams of the body systems, learn the physiology of the body systems, and complete labs and experiments to reinforce and clarify the topics.

645 (H) Anatomy **Honors** **1.00 credit**

***SENIORS ONLY - Teacher Recommendation Required**

A course more rigorous than the CP level and requires the student to complete a science fair project. This course presents an introduction to anatomy and physiology that explores the human body from the cell to various organ systems. This course is designed for students who plan to pursue careers in the health field. Class activities, labs and projects follow the sequence of lectures to reinforce and clarify topics. Students should be prepared to dissect sheep organs and a cat, complete and analyze laboratory findings, and write lab reports and research papers.

*** An essay for admission into this course is required. This essay should focus on why you want to take this course, your future career plans in the health field and how this course will prepare you for that course of study**

648 (CP) FORENSIC SCIENCE Level 2 .5 credit
JUNIORS AND SENIORS

***Prerequisites: Students must have completed CP Biology, CP Chemistry, CP Algebra and CP English 2 with a score of 85% or higher.**

CP Forensics is a semester course in which students will be introduced to the investigative and analytical methods of forensics. This includes the processes involved in collecting and analyzing physical evidence. Fingerprints, hair, blood spatter, blood type, forensic anthropology (the study of skeletal remains), and forensic entomology (the study of insects on remains) will all be covered. A “hands-on, minds-on,” approach will be taken with a focus on using the scientific method. Students will gather data and solve problems while thinking critically about what they observe. A variety of thought-provoking cases and scenarios will be used which will require students to take what they have learned and apply it to new situations. Students will be expected to read a number of case studies and to write their own analyses of evidence.

*******Language Department*******

FRESHMAN LANGUAGE

700 Spanish I Level 1 1.00 credit

This language class is designed for those students who are brand new to foreign language learning. Cultural customs for Spanish speaking countries are explored and developed. Emphasis is on the four basic communication skills of a language: listening, reading, writing and speaking. There is more of a holistic approach to language learning without an extensive breakdown of grammatical concepts.

This course has an added focus on TPRS curriculum (Teaching Proficiency through Reading and Storytelling). **(NOT APPROVED BY THE NCAA)**

703 (CP) Spanish I Level 2 1.00 credit

This language class is designed for those students who are new to foreign language learning. Cultural customs of Spanish speaking countries are explored and developed. Emphasis is on the four basic communication skills of a language: listening, reading, writing, and speaking. Sentence syntax and grammar are explored in this level of Spanish. This section of Spanish covers the same topics as 705 Spanish I but with varying degrees of differentiated instruction and assessments.

*******Home Economics*******

PLEASE NOTE: THE NCAA DOES NOT ACCEPT HOME ECONOMIC CLASSES

755 (CP) Foods and Nutrition Level 2 .5 credits
JUNIORS AND SENIORS

Note: This course receives a letter grade and does not count towards your GPA.

This lab-oriented practical cooking course is offered only to juniors and seniors. The course offers an overview of the science of nutrition and its application to everyday life. Laboratory lessons are selected to teach basic cooking principles and proper use of large and small kitchen appliances. In addition, students will learn life skills from meal planning to laundry basics to budgeting. Students will have the opportunity to taste food samples from live cooking demonstrations. Students will explore concepts of nutrition and diet as it relates to overall wellness and healthy living habits. **Lab fee: \$75.00 due in September.**

993 (CP) Wellness and Life Management Level 2 .25 credits

****Graduation requirement****

This project-based semester long course focuses on the total health and wellness of the student. Health topics include nutrition, basic hygiene, and mental/emotional health. Physical health includes exercise, basic First Aid skills, emergency preparedness, and addictions. The course also covers basic life management skills including personal finance, career preparation, and conflict management within relationships.

EVERY SOPHOMORE IS REQUIRED TO TAKE WELLNESS

******* Music *******

PLEASE NOTE: THE NCAA DOES NOT ACCEPT MUSIC CLASSES

900 (CP) Marching Band Level 2 .50 credit

Note: This course receives a letter grade and does not count toward your GPA

The Crusader Marching Band is an exciting activity that combines musical performance with marching and motion. The marching band is open to all students at any musical proficiency level. It is a chance to join a team and become part of something bigger than yourself as well as a great opportunity to make friends and memories that will last a lifetime! The marching band plays a huge role as part of the football atmosphere as well as performing at local competitions, parades, and recruiting efforts throughout the diocese. Coursework will begin over the summer and continue into the fall with a few additional events throughout the remainder of the school year.

901 (CP) Jazz Band **Level 2** **.25 credit**

Note: This course receives a letter grade and does not count toward your GPA.

The Bishop McDevitt Jazz Band plays a variety of modern music as well as big band music. The ensemble regularly votes on pieces to perform at 3 concerts per year. The ensemble is for fun pieces and challenging pieces.

902 (CP) Concert Band **Level 2** **1.00 credit**

Note: This course receives a letter grade and does not count toward your GPA.

The concert band is open to any wind or percussion player interested in instrumental music. This group's primary focus is symphonic literature throughout the school year while working on proper playing techniques and musicality. Students should be able to play at least an eighth grade level if they are considering this course. There are multiple mandatory performances throughout the year.

904 (H) Wind Ensemble **Honors** **.5 credits**

Membership in Wind Ensemble is through audition only.

Advanced concert band and chamber music literature is performed in a four- concert cycle per year. Literature is composed by leading band composers and arrangers from the mid-nineteenth century to the present day. Admittance to the ensemble is by audition only and therefore mature musicianship is required to participate in the course. An emphasis will be placed on advanced techniques for each respective instrument. In addition to performances, students will be expected to complete repertoire tests, scale pattern tests and historical context quizzes.

906 (CP) Chamber Orchestra **Level 2** **1.00 credit**

Note: This course receives a letter grade and does not count toward your GPA.

The chamber orchestra is open to any student interested in playing a bowed string instrument. Students will focus on literature appropriate for the string ensemble throughout the school year while working on proper playing techniques and musicality. There are opportunities for several performances throughout the year.

910 (CP) Concert Choir **Level 2** **1.00 credit**

Note: This course receives a letter grade and does not count toward your GPA.

Concert Choir is available to any student who expresses the desire to sing and possesses the basic essential vocal skills to be successful. Students will study the music for theoretical, historical and performance practice understanding. Also incorporated in the curriculum is solfeggio and rhythmic and intervallic awareness. Special emphasis is stressed upon each section to be able to sing independently of the other voices and to ensure proper balance throughout the entire choir. According to our basic music philosophy, an attitude has been developed which ensures singers of all skill levels a chance to share educational, as well as performance oriented choral experiences.

915 (H) Chorale**Honors****1.00 credit****Membership in the Bishop McDevitt Chorale is through audition only.**

The Bishop McDevitt Chorale is a group of vocalists whose members are chosen by audition from students enrolled in the Concert Choir. The group specializes in a cappella literature spanning all periods of music history. Special attention is given to the rudiments of correct singing, sight-reading skills, and music theory. In addition to school concerts, this group frequently performs throughout the community. The students will be encouraged to participate in honor choirs and solo performances. This group requires a significant time commitment and dedication to working outside the classroom. Auditions occur in the spring to form the following year's ensemble. Freshmen may be admitted in the fall based on skill and proficiency.

920 (CP) Introduction to Piano**Level 2****.50 credit**

This course is designed for students who wish to develop basic piano playing skills. Time in class will be spent in small groups to master the techniques of playing and to learn pieces. There will also be time spent in group instruction on musical notation and theory. This is a beginner's course. No playing experience is necessary. This course meets every other day and can be taken concurrently with Introduction to Guitar.

921 (CP) Introduction to Guitar**Level 2****.50 credit**

This course is designed for students who wish to develop basic guitar skills. There will be both a playing and written component to this course. Playing skills that will be covered are: basic chords, reading and playing tablature, barre chords, reading and playing standard notation, and basic fingerpicking technique. In addition to individual playing, students will gain proficiency at group playing. This is meant as an introductory course. No playing experience is necessary. This course meets every other day and can be taken concurrently with Introduction to Piano.

922 (CP) Intermediate Piano Level 2**CP****.50 credit**

This course is designed for students who wish to further develop piano playing skills. Time in class will be spent both on and off the keyboards. While playing, students will be working individually and in small groups to continue the techniques of playing and to learn more advanced piano literature. There will also be time spent in group instruction on musical notation and theory. Students will need to have satisfactorily completed Introduction to Piano in order to be eligible to take this course. This course meets every other day and can be taken concurrently with Intermediate Guitar.

923 (CP) Intermediate Guitar Level 2**CP****.50 credit**

This course is designed for students who wish to further develop guitar skills. There will be both a playing and written component to this course. Playing skills that will be covered are: minor seventh chords, suspended chords, more strum patterns, barre chords, and basic fingerpicking technique, scales, major seventh chords, improvisation, and diminished chords. In addition to individual playing, students

will gain proficiency at group playing. Students are required to have completed Introduction to Guitar. This course meets every other day and can be taken concurrently with Intermediate Piano.

924 (CP) Advanced Piano Level 2 Level 2 .50 credit

This course is designed for students who wish to further develop piano playing skills. Time in class will be spent both on and off the keyboards. While playing, students will be working individually and in small groups to continue the techniques of playing and to learn more advanced piano literature. There will also be time spent in group instruction on musical notation and theory. Students will need to have satisfactorily completed Intermediate Piano in order to be eligible to take this course or be admitted by the teacher.

925 (CP) Advanced Guitar Level 2 .50 credit

Advanced guitar is designed for students who have already completed intermediate guitar and have an advanced understanding of chord structures, fretboard knowledge and would like to perfect their playing ability. TEACHER RECOMMENDATION IS REQUIRED.

930 (CP) Music Appreciation Level 2 1.00 credit

*** Students in all grade levels may take this course**

Students in Music Appreciation will learn fundamentals of music reading and history. We will cover history from early human history all the way through modern/current music. The class covers simple applied music on simple classroom instruments. This class is designed to help students who appreciate any music.

931 (CP) Introduction to Music Tech Level 2 .50 credit

In this class students will learn how to control equipment in the theater. We will cover running the sound board and light board, changing lights, and preparing stage equipment. Recording, sound production, video streaming, and maintenance will also be covered. All of these skills will be useful in technology careers. We will have time to prepare for events on campus for sound and lights. This class will be a requirement for working the light and sound board for events.

937 AP Music Theory AP 1.00 credit

***JUNIORS AND SENIORS ONLY**

This course is designed to give the student an understanding of music theory, sight reading, and aural skills that is equivalent to that of a first-year college music student. It is also designed with the explicit purpose of preparing the student for the AP® Exam in Music Theory. The course content and presentation will adhere to the guidelines set forth by the College Board in the Music Theory Course Description. The course will cover: the basic materials of common practice theory with an emphasis on music fundamentals in the first unit. The next unit will focus on the structural elements of music such as cadences, melodic organization, textural reduction, and voice leading according to eighteenth and nineteenth century practices. The third unit will encompass the study of larger forms, introduce chromatic harmony, and modulation. In addition, students will be trained to sight-read melodies in major and minor

991 (CP) Strength and Conditioning

.5 credit

SOPHOMORES, JUNIORS, AND SENIORS ONLY

Note: This course does not count toward your GPA.

** This course may be taken in place of 990** Strength and Conditioning will introduce and refine the lifting techniques used for the different modalities in the weight room. Emphasis will be placed on ground base lifts, including, but not limited to Olympic lifts, push/pull exercises, isometric lifts, double and single joint exercises, and core development. Weight room safety will be stressed with the various lifts. Plyometrics, explosive change of direction drills, will be incorporated into this class.

Bishop McDevitt offers two virtual options. Please see the course offerings in the links provided.

[Virtual High School](#)

[Educere](#)

Note: Courses that conflict with the Bishop McDevitt Curriculum will not be approved.