



## **Bishop McDevitt High School**

### **Course Selection Book**

**2020-2021**

### **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 & 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.

<b>AP-Track</b>	<b>Advanced Placement</b>
<b>Honors H-Track</b>	<b>Honors</b>
<b>ACP Track</b>	<b>Accelerated College</b>
<b>Prep Level 2 (CP)</b>	<b>College Prep</b>
<b>Level 1</b>	<b>College Prep</b>

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

**Each student must schedule at least 7 major courses 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.

## Graduation Requirements

Bishop McDevitt High School, requires a minimum of 28 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
Windows	1/2 credit
Phys. Ed	1 credits (Note: .25 credit of Phys-Ed is required each year)
Wellness/Health	.25 credit
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 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.

**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 7 major subjects.** 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, you will be notified by the administration.

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 and 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 applying 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 - 86%**

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 -86%**

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.









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**

**\* Prerequisite - (ACP) British Studies-90%**

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**

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 courses 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**

**\*Prerequisite - English III Level 1- 86%**

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**

**\* Prerequisite – (CP) English – 86%**

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**

**\*Prerequisite- (ACP) English III – 86%**

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**

**\* Prerequisite – (H) English III – 90% - 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**

**\*\* 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.

### **243 (CP) Yearbook    Level 2    1.00 credit**

**\*\*SOPHOMORES, JUNIOR AND SENIORS ONLY\*\***

This is the introductory course for yearbook class. Pridwen Yearbook Class Level 1 is offered to students in 10th and 11th grade and requires the approval of the course teacher. The basics of photography, editing, and writing copy stories are covered throughout this course. The following areas will be explored: time management, marketing, teamwork, and design principles. This class follows the Balfour Yearbook Curriculum and includes various written assessments, conducting studies and collecting reports, tutorial assignments, and project-based learning. This class primarily focuses on publishing the yearbook as well as producing a variety of digital and printed publications for the school. The yearbook staff is also responsible for cataloging and archiving digital photo albums from previous Pridwen editions.

### **244 (CP) Yearbook II    Level 2    1.00 credit**

**\*Prerequisite--(CP) Yearbook**

This is the secondary course for yearbook class. Pridwen Yearbook II is offered to students in 11th and 12th grade and requires the approval of the course teacher. The expanded concepts of digital photography, editing, and writing copy stories are covered throughout this course. The following areas will be explored: time management and deadline submissions, marketing and sales strategies, teamwork building exercises and graphic design principles. This class follows the Balfour Yearbook Curriculum and includes various written assessments, conducting studies and collecting reports, tutorial assignments and project-based learning. This class primarily focuses on publishing the yearbook as well as producing a variety of digital and printed publications for the school. The yearbook staff is also responsible for cataloging and archiving digital photos albums from previous Pridwen editions.

### **245 CP Yearbook III    Level 2    1.00 credit**

**\*Prerequisite--(CP) Yearbook and (CP) Yearbook II**

This is the senior advanced course for yearbook class. Pridwen Yearbook III is offered to students in 12th grade and requires the approval of the course teacher. The expanded concepts of digital photography, editing, and writing copy stories are covered throughout this course. The following areas will be explored: time management and deadline submissions, marketing and sales strategies, teamwork building exercises and graphic design principles. This class follows the Balfour Yearbook Curriculum and includes various written assessments, conducting studies and collecting reports, tutorial assignments and project-based learning. This class primarily focuses on publishing the yearbook as well as producing a



## \*\*\*\*\*Social Studies\*\*\*\*\*

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

***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)**

#### **302 Introduction to Social Studies                      Level 1                      1.00 credit**

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

**\*\*This is an intermediary course taken prior to World History and Culture Level 1. Students who complete this course will be placed in World History and Culture Level 1 the following year.**

*Introduction to Social Studies* is a 9<sup>th</sup> grade course designed to introduce a wide variety of social studies information, subjects, and skills to students transitioning into high school. Topics range from what is social studies, world and American history, geography, economics, finance, and government, as well as, a strong focus on reading strategies and comprehension, writing skills, and historical document analysis.

The primary goal of this course is to develop foundational skills that will subsequently be built upon in future social studies courses during the 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup> grades. **(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**

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

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**

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**

**\* Prerequisite- CP World Cultures - 93% and/or Teacher Recommendation**

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**

**(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**

**\* This is a core history class for sophomores but can be taken as an elective by juniors and seniors Prerequisite: Must have a 90% in current Honors History class**

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 into 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**

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**

**\*Prerequisite- (ACP) British Studies – 80% or (CP) Modern World Studies – 90% or teacher recommendation**

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**

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](http://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**

**\*Prerequisite- (CP) American History I – 90% or teacher recommendation**

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](http://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**

**\*Prerequisite - (H) American History I - 90% (If the prerequisite is not satisfactorily met, then overriding into this course is not an option.)**

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 - 85%**

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 - 85%**

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, and 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**

**\*Prerequisite - (H) Humanities II or (H) American History I - 90% (If the prerequisite is not satisfactorily met, then overriding into this course is not an option.)**

**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**

#### **All students-Honors and College Prep Levels.**

If your intended college major will be Accounting, Business Administration, Business Management, Marketing or Finance, the following courses are suggested: Accounting I (H), Accounting II (H), Accounting III (H), Economics, Marketing, Management, and Business Law.

If your college major will be Computer Sciences/Computer Technology, the following courses are suggested: (H) Computer Programming I, (H) Computer Programming II, (H) Video Game Design, (H) Web Design/Dreamweaver, (AP) Computer Principles, (AP) Computer Programming III, (CP) Graphics Design I and (H) Graphics Design II.

#### **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.

#### **405 AP Computer Principles      AP      1.00 credit**

During both semesters, emphasis will be placed on building computer science (CS) vocabulary from the APCSP Curriculum Framework and discussing current topics in CS and CS theory. Vocabulary building as well as learning objective concepts and essential knowledge statements will be taught through standing class protocols incorporated into a variety of individual and cooperative learning activities.

#### **406 (CP) Broadcast and Video Production      Level 2      1.00 credit**

Broadcast and Video Production introduces students to broadcasting and video production through a theory-based, hands-on approach. Topics include the fundamental technical aspects of the digital video camera, camera shots and composition, media literacy, aesthetic elements and techniques, non-linear editing, Sony Vegas, PSA's, television advertising, short films, WCAT-TV studio roles and

responsibilities and broadcast news. Students will have the opportunity to work in the TV studio to produce a variety of programming.

**407 AP Economics - Macro and Micro AP 1.00 credit**

**JUNIORS AND SENIORS ONLY**

**\*Prerequisites: Students must have maintained an 85% in all Honors level courses and a 90% in all CP level classes. IF YOU DO NOT MEET THE PREREQUISITES YOU WILL NOT BE PERMITTED TO OVERRIDE**

AP Economics is a college-level course combining both Micro and Macroeconomics that introduces students to the principles of economics that apply to the functions of individual economic decision-makers as well as the principles that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination and develops students' familiarity with the operation of product and factor markets, distributions of income, market failure, and the role of government in promoting greater efficiency and equity in the economy; students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Students will learn to use graphs, charts, and data to analyze, and explain economic concepts.

**408 (CP) Introduction to Computers Level 2 .5 semester**

This course introduces students to the fundamentals of computer hardware and software, mobile devices, printers, security and networking concepts and the responsibilities and soft skills required to become an IT professional. By the end of the course, students will be able to describe the internal components of a computer and assemble a computer system, install and understand operating systems on computers and mobile devices, connect to the internet and share resources in a networked environment and troubleshoot using system tools, diagnostic software and critical thinking skills.

**409 (CP) Introduction to Networking Level 2 .5 semester**

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.

**424 (CP) Microsoft Office Suite Level 2 1.00 credit**

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

**(formerly Windows II)** This course covers Microsoft Office 2013 and is designed to teach new and experienced users alike how to use the many familiar and new features that come with the suite. Students will create documents, publications, and complete tasks that require the use of a word processor.

Some of the items students will create are newspaper style columns, special table features, templates, brochures, flyers and many advanced features to help make documents look professional. Students will explore how to use Excel to help with simple and complex calculations, create a database in

Access and explore ways to make their presentations more interesting for their class or project. They will see that Word, Excel, PowerPoint and Access are separate programs but can also work together to create powerful documents of information. Students will go further in depth in cloud based programs such as Gmail and Google Drive.

## **412 (CP) Graphics Design I**

**Level 2**

**1.00 credit**

**\*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 explore 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.*

## **419 (H) HTML/Dreamweaver**

**Level 2**

**1.00 credit**

**\*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.

## **415 (H) Accounting I**

**Level 2**

**1.00 credit**

**\*SOPHOMORES, JUNIORS and SENIORS ONLY**

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.

**420 (CP) Business Law****Level 2****.5 semester****\*SOPHOMORES, JUNIORS and SENIORS ONLY**

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, genuineness of assent, consideration, legal capacity to contract, sales contracts, property law, agency law, and discrimination in employment. Students will participate in a mock trial and serve as the judge, jury, bailiff, attorneys, and witnesses in a criminal case. The course serves as a good starting point for anyone who is planning a career in law.

**417 (H) Video Game Design****Honors****1.00 credit****\*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.

**421 (H) Computer Programming I                      Honors                      1.00 credit**

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

Students with no previous programming experience learn how to analyze a problem specification and then plan and create an appropriate computer solution. Pseudocode and flowcharts are used to plan the solution, and desk-check tables are used to verify that the solution is correct before it is coded. Students code the solution using the Visual Basic 2013 language, and then desk-check the code before it is executed. Students learn how to select appropriate test data. Students will have learned how to write Visual Basic statements such as If...Then...Else, Select Case, Do...Loop, and For...Next. Students also will learn how to create and manipulate variables, constants, strings, sequential access files, structures, classes, and arrays. Students will be introduced to OOP concepts and terminology.

**422 (CP) Graphics Design II                      Level 2                      1.00 credit**

**\*Prerequisite – 85% or higher in (CP) Graphics Design I**

This course is a continuation and extension of concepts learned in Graphic Design I. In this course, students will refresh their skills from Graphic Design I and then continue to progress through practical application skills in typology, color, and design principles. They will continue to increase their knowledge and skills in using Adobe Illustrator CS6, Photoshop CS6, and InDesign CS6. Throughout the year, students will be provided several real-world opportunities to create professional looking documents for companies/businesses around the area. A yearlong physical/e-portfolio will be created to showcase what students have accomplished.

*Special circumstances can be given for students who exceed the requirements for Graphic Design I.*

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

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

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.

**431 (H) Computer Programming II****Honors****1.00 credit****\*JUNIORS and SENIORS ONLY****\*Prerequisite: 85% or higher in (CP) Introduction to Business and Technology**

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 all of the major concepts presented throughout the book. In addition to learning about C++ and game programming, students also learn how to organize their work, break down problems into manageable chunks, and refine their code. Students will be challenged at times, but never overwhelmed. In the process, students will create some cool computer games and gain insight into the craft of game programming.

**432 (H) Robotics I****Honors****1.00 credit****\*JUNIORS and SENIORS ONLY****\*Prerequisite: 85% of higher in (CP) Intro to Bus and Technology**

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.

**435 (H) Accounting III****Honors****1.00 credit****\*Prerequisite: 85% or higher in (H) Accounting II**

Accounting III completes the adjustments and valuation started in Accounting II. Students will learn how to account for notes payable, prepaid expenses, accrued expenses, unearned revenue, accrued revenue, and installment notes receivable. Students then learn how to account for a corporation. Topics include: organizing a corporation, corporate dividends and treasury stock, and accounting for bonds. Students will also learn how to analyze financial reports and how to prepare statements of cash flows for corporations. Students will also learn about management accounting. Topics include: budgetary planning and control, management decision making using cost-volume-profit analysis, job order costing, management decision making using differential analysis, process costing, activity-based costing, and product pricing.

**441 (AP) Computer Programming III****AP****1.00 credit****SENIORS ONLY****\*Prerequisite: 85% or higher in Computer Programming II**

Java Programming is designed to prepare students for the College Board's AP® Computer Science A Exam. The course curriculum covers the topics and activities of a first-year computer science course at the undergraduate level. It is designed to be engaging and motivating for the high school student. Java Programming is a course designed to awaken and support students' problem solving skills. The course will introduce the Java programming language while emphasizing universal language techniques like syntax, semantics and readability. Students will gain mastery in programming concepts by using a subset of Java features that are covered when needed throughout the course content. This allows the student to understand and master important concepts that will apply to programming problems in many additional languages.

Students in Java Programming will begin by encountering situations that involve solving problems with the use of primitive data types, methods, and control statements. Later, this inquiry will evolve into the use of Object Oriented Programming (OOP), which is today's most common and practical way to develop software.

Throughout the course, students will also grow to understand how computers process information. This understanding will deepen as students apply concepts like string manipulation, the behavior of elements in arrays and lists, and the use of external data to interact with algorithms.

The College Board's AP® Computer Science curriculum presents three hands-on laboratory practice sets that will help students synthesize course concepts. These labs will expand and secure their knowledge of programming and prepare them thoroughly for the AP® Computer Science exam in May.

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. We offer four levels: Advanced Placement, Honors, College Prep Level 2 and College Prep Level 1. For Upperclassman we look at their previous mathematics averages. If their averages are greater than or equal to 80% that student is correctly placed. If their average is above 70% but less than 80% that student should consider dropping to the next lower level. If a student has an average below 70%, that student MUST be placed at the next lower level. Incoming freshman should consult placement test results to select the proper course level.

### FRESHMAN MATHEMATICS

#### **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.

**505 (H) Algebra I****Honors****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. Problem solving skills will be emphasized. Students will engage in methods for analyzing, and using functions. Students will fluently move between multiple representations of functions including but not limited to linear, exponential and quadratics.

**UPPER LEVEL MATHEMATICS****510 Geometry****Level 1****1.00 credit****\*Prerequisite: Algebra I Level 1**

The Level 1 Geometry Course emphasizes the real-life applications of geometric concepts. These concepts include parallelism, perpendicularity, congruence, and similarity as applied to points, lines, planes and polygons. Topics also include area and perimeter, circles, three-dimensional shapes, surface area, and volume. **(NOT APPROVED BY THE NCAA)**

**513 (CP) Geometry****Level 2****1.00 credit****\*Prerequisite: 80% in (CP) Algebra I**

The Level 2 Geometry Course emphasizes real-life geometric applications in the study of points, lines and planes in space. Deduction, induction, and formal proofs are used to develop the geometric properties as well as similarity and congruence. Topics include angles, triangles, polygons, circles, and arcs.

**515 (H) Geometry****Honors****1.00 credit****\*Prerequisite: 80% in Honor Algebra I**

The Honor's level Geometry course is designed to introduce students to the concepts and applications of logical thinking and its use as a problem-solving skill, and to explore geometric concepts and theorems through the use of geometric proofs. Topics covered in this course include lines, angles, planes and circles. Additionally, students will be exposed to various real-world applications of select topics covered in this course.

**520 Algebra II****Level 1****1.00 credit****\*Prerequisite: Algebra I - Level 1 and Geometry - Level 1**

This course is designed to build upon and further develop the concepts taught in Algebra I. Topics covered include solving various types of equations and inequalities, exponents, polynomials, factoring polynomial equations, rational expressions, radicals, quadratic equations, complex numbers, coordinate geometry and systems of equations. **(NOT APPROVED BY THE NCAA)**



**534 (CP) Pre-Calculus****Level 1****1.00 credit****\*Prerequisite: 93% in both CP Algebra II and CP Geometry**

**A scientific calculator (TI-30 or above) is required. A TI-84+ graphing calculator is suggested.**

This course is intended for students who wish to continue a college prep math curriculum beyond Algebra 2 and subsequently take a calculus course. Pre-Calculus will focus on the following topics: a review of linear and quadratic functions, polynomial functions and their inverses, exponential and logarithmic functions, rational and radical functions, trigonometry with a concentration on radian measure, graphing trigonometric functions, proving trigonometric identities, solving trigonometric equations and solving trigonometric applications problems, analytic geometry, and limits.

**535 (H) Pre-Calculus****Honors****1.00 credit****\*Prerequisite: 80% in Honors Algebra II, 80% in Geometry Honors**

This advanced mathematics course is designed for students with above average mathematical ability and motivation. Pre-Calculus will heavily focus on Trigonometry, Analytical Geometry, Limits, simple derivatives and their applications. Specific areas of study will include but are not exclusively limited to: Solving Polynomial, Rational and Radical equations; Graphing and analyzing Circular Functions; Conic Sections; Inverse Functions, graphing Trigonometric Functions; proving Trigonometric Identities, solving Trigonometric Equations and solving Trigonometric applications problems.

**555 (H) Calculus****Honors****1.00 credit**

**\*Prerequisite: 80% in Pre-Calculus Honors or 93% in (CP) Pre-Calculus IF YOU DO NOT MEET THE PREREQUISITES YOU WILL NOT BE PERMITTED TO OVERRIDE**

**A TI-84+ graphing calculator is required..**

This standard one year course in the calculus of one variable develops the topics of functions, limits, differentiation, integration, and special functions. These techniques will be used with respect to polynomials, rational, radical, logarithmic and exponential functions as they apply to Engineering, Physics and business.

**557 (AP) Calculus AB****AP****1.00 credit****\*Prerequisites: A minimum grade of 90% in Pre-Calculus Honors.****IF YOU DO NOT MEET THE PREREQUISITES YOU WILL NOT BE PERMITTED TO OVERRIDE A TI-84+ graphing calculator is required.**

This college level calculus course culminates with the Advanced Placement test in AB Calculus in May. The concepts of limits and continuity are developed into differential calculus, covering the derivative geometrically, numerically and analytically. Derivatives of trigonometric, exponential, logarithmic and inverse functions, the chain rule, and implicit differentiation are studied. Applications of derivatives include curve analysis, related rates, growth and decay, and velocities and accelerations. Second semester topics include: integral calculus; the computations of various Riemann sums and applications of integral calculus including topics such as area between curves; rotations of solids and average value. All students must take the AP Calculus AB exam in May.

**558 (AP) Calculus BC****AP****1.00 credit****\*Prerequisites: An 80% in AP Calculus AB, a 90% in Honors Calculus, or a minimum grade of 95% in Pre-Calculus Honors with the approval of the Honors Pre-Calculus teacher.****IF YOU DO NOT MEET THE PREREQUISITES YOU WILL NOT BE PERMITTED TO OVERRIDE A TI-84+ graphing calculator is required.**

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****\*SENIORS AND QUALIFIED JUNIORS ONLY****\*Prerequisite: Passing grade in (CP) Algebra II and (CP) Geometry or (H) Algebra II and (H Geometry)**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.

**565 (H) Statistics****Honors****1.00 credit****\*SENIORS AND QUALIFIED JUNIORS ONLY****\*Prerequisite: 80% in (H) Algebra II or 90% in (CP) Algebra II and enrollment in Algebra II**

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.

## \*\*\*\*\*Science Department\*\*\*\*\*

**Incoming freshman 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**

### **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. Problem-solving techniques are an important part of this course. ( **NOT APPROVED BY THE NCAA**)

#### **603 (CP) Biology I**

**Level 2**

**1.00 credit**

This course is an introduction to Biology surveying cellular Biology (cell parts and functions), genetics, study of heredity, embryology (study of the development of young organisms), botany (the plant kingdom characteristics-how a plant functions), different types of plants and zoology (the animal kingdom's characteristics-how animals function), and different animals. 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 best illustrating 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. Lab work supplements the topics.(**NOT APPROVED BY THE NCAA**)









**647 (CP ) Principles of Engineering      Level 2      .5 semester**

**\*JUNIORS AND SENIORS**

**\*Prerequisite : 85% in CP Algebra II**

Engineering I, a semester course, is designed to survey the major concepts in the postsecondary engineering course of study. Through problems and projects, students will learn a broad range of engineering topics including mechanisms, the strength of materials and structures, automation and kinematics. This course applies and concurrently develops secondary level knowledge and skills in mathematics, science and technology. Each unit will present the students with a mixture of projects, research topics and design challenges in order to give the students the opportunities to use their learned skills in a real world engineering application.

**648 (CP) FORENSIC SCIENCE      Level 2      .5 semester**

**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, hairs, fibers, soil, glass, blood, and forensic entomology 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.

This course will complete Chapters 1-5 of the Aventura Series, Level I textbook.

### **705 (H) Spanish I**

**Honors**

**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 703 Spanish I but at greater depth and with progress evaluated by more challenging assessments than the CP section.

This course will complete Chapters 1-5 of the Aventura Series, Level I textbook.

### **706 (CP) Latin I**

**Level 2**

**1.00 credit**

Latin didn't fall with Rome! This course presents Latin and its myriad of impacts on our language and Western civilization. By providing an introduction to Latin grammar and syntax within a meaningful context of classical culture, this integrated word study program enriches the students' English vocabulary and grammar skills. Students are also immersed in Roman culture through readings on mythology, architecture, military and history, as well as traditions of the Church by studying original Latin prayers.









## \*\*\*\*\*Home Economics\*\*\*\*\*

**PLEASE NOTE: THE NCAA DOES NOT ACCEPT HOME ECONOMIC CLASSES**

**756 (CP) Foods/Nutrition                      Level 2                      1.00 credit**  
**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 credit**

**\*\*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.

**902 (CP) 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.

**905 (H) Wind Ensemble****Honors****1.00 credit****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.

**910 (CP) Chorus****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 possess the basic essential 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.

**930 (CP) Introduction to Music Theory      Level 2      1.00 credit**

**\* SOPHOMORES, JUNIORS AND SENIORS ONLY**

Students will learn the fundamentals of music theory through the study of all major and minor scales, chords and their inversions, sight singing and melodic/rhythmic dictation. A placement test is required prior to enrolling in this class. Contact the Music Department. You must be in 10-12 grade in order to take this course.

**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 keys, with limited chromatic alteration. They will also perform listening exercises for the purposes of memorizing and notating specific intervals, scales, chords, rhythms, melodies, and progressions. Students will need to have satisfactorily completed Introduction to Music Theory in order to be eligible to take this course.

**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.





**959 (CP) Advanced Fine Craft                      Level 2                      .5 credit**

**\*Prerequisite – 93% or higher in Art II**

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

In this art experience students will uncover the methods and materials used to produce functional utilitarian art forms by skilled artisans. The student will learn and practice traditional and non-traditional art forms not limited to lettering, mosaic, wood burning, air brush, jewelry making and paper craft.

**955 (H) Art Portfolio    Honors    1.00 credit**

**\*Prerequisite – 93% or higher in Art II**

This discipline is designed specifically to give additional assistance to those students who wish to apply to a post-secondary art program. Students will prepare a portfolio with digital components. The art portfolio course is extended to students who have completed art 1 and 2.

**956 (H) Drawing as Structure & Vision                      Honors    1.00 credit**

**\*SENIORS ONLY**

**\*Prerequisite – 93% or higher in Art II and Art Portfolio**

This is a rigorous studio course offered to seniors that have participated in 3 previous art courses. Students will design an approved course of study culminating in an end of the year Sr. art exhibition including a written artist statement.

**\*\*\*\*\*Physical Education\*\*\*\*\***

**990 (CP) Physical Education**

**.25 credit**

**Note: This course does not count toward your GPA.**

**\*\* Graduation requirement\*\*** The physical education department offers elective courses with the primary objective promoting lifetime activities and concerns itself with the total health of the student.

**PLEASE SEE INFORMATION REGARDING VIRTUAL HIGH SCHOOL  
ON THE NEXT PAGE**

## VHS LEARNING

### What is Virtual High School?

Virtual High School's online courses provide a way for Bishop McDevitt to supplement the school's elective and AP course offerings. VHS's catalog ([Catalog | VHS Learning - The Virtual High School](#)) currently offers more than 150 online courses and is accredited by the Middle States Commission on Secondary Schools. VHS offers both year and semester long courses. **Students must apply for acceptance into the VHS program.**

### Criteria for Acceptance into the VHS Program

- ❖ Classroom performance and behavior
- ❖ Completion of assignments
- ❖ Self-motivation
- ❖ Ability to work independently
- ❖ Attendance

### How and Where do Students take VHS courses?

Students are assigned a class period to work on their VHS courses in the computer lab. VHS courses are taught over the internet and are therefore accessible from any computer that has an internet connection.

### Credit for VHS Courses

VHS courses receive the same credit and weight and are listed on student report cards and transcripts in the same manner as any other course offered at Bishop McDevitt. **Students taking a VHS course must meet the grading standards set forth by Bishop McDevitt High School. Therefore, a student must achieve a grade of 70 or higher to receive credit for the course.**

### Course Policies

- ❖ **A student cannot take a course that is currently offered at Bishop McDevitt**
- ❖ VHS courses are offered to upperclassmen only (10<sup>th</sup>, 11<sup>th</sup> and 12<sup>th</sup> grades).
- ❖ The administration has the right to disallow a course.
- ❖ VHS Course registration begins in the first or second week of May. **Once a student has been registered for a course, they will not be allowed to withdraw from the program.** However, Bishop McDevitt reserves the right to withdraw a student from the program at any time.
- ❖ There are a limited number of seats each semester. The number of classes a student is enrolled in will be determined by the number of students accepted into the program. Students should review the course information carefully before making their course selections. A student may request to switch one VHS course for another prior to the start of class. **This does not mean that a student's request will be granted.** Requests must

be submitted in writing, state the reason for the change and be signed by his/her parent or guardian. All requests must be approved by Mrs. Pagliaro.

- ❖ Students must be able to work independently.
- ❖ Students will need to work outside of school hours to complete weekly assignments.
- ❖ If a student does not have internet access at home, he/she must be willing to use a public library or other source to complete necessary course work.

#### **How much time should be allotted to complete the course work for VHS each week?**

- ❖ Students taking a VHS course have approximately 3 ½ hours of scheduled class time. The hours listed below include this time.
- ❖ A standard level class requires students to be actively engaged in their course work for approximately **6-8 hours** per week.
- ❖ An honors level/ Pre-AP class requires students to be actively engaged in their coursework for approximately **8-10 hours** per week.
- ❖ An AP level class requires students to be actively engaged in their coursework for approximately **10-12 hours** per week.

#### **Who pays for VHS Courses?**

- ❖ Bishop McDevitt pays the membership fees and basic tuition for VHS courses.
- ❖ Bishop McDevitt does not provide any material for VHS courses. Students are responsible for any materials required for their course which are not provided through VHS.
- ❖ VHS charges an additional \$75 fee for AP courses. Students electing to take an AP course will have to pay the additional fee.
- ❖ Some AP and other science classes will have a lab fee. Students will be required to pay the lab fee for their courses.
- ❖ A student who does not receive a grade of 70 or higher will be responsible for reimbursing Bishop McDevitt High School for the cost of the course.

**For a full listing of Course Options Please goto: <https://vhslearning.org/catalog>**

**These courses are not available as course options due to content which conflicts with Bishop McDevitt Curriculum approval:**

Bioethics