



# **DEPAUL CATHOLIC HIGH SCHOOL**

## **Course Descriptions 2016-2017**

Dear Parents and Students:

Welcome to the 2016-2017 DePaul Catholic Course Handbook. We are excited about many of the new changes in both course requirements which will allow for greater flexibility in selecting more electives in your area of interest and the expanded elective and core courses that build upon the core curriculum itself. Additional Advanced Placement courses in Art History, Physics, and Psychology increase the rigor of the college preparatory curriculum.

Parents and students please be aware of the prerequisites which guide your course selection process. Our approach is holistic: test scores, grades in previous courses in that subject area, and teacher recommendation provide the rubrics for the course selection process. In addition students are individually assisted by their guidance counselor to finalize the best selection of courses for the new academic year.

Courses at DePaul Catholic are structured on three levels: College Prep (CP), Honors (H), and Advanced Placement (AP). DePaul Catholic encourages students to strive for the Honors and Advanced Placement level classes if they qualify.

As you examine the DePaul Catholic Course Description Booklet, you will also see labeled the NEW elective courses in each of the departments. From Music Theory to Exercise Science, there are courses in varied subject areas, which will hopefully appeal to all students. As a college preparatory high school, the goal of DePaul Catholic is twofold: students begin to experience learning as a rich adventure through the prism of many course areas, and students start the process of moving to the college of their choice by senior year.

St. Vincent DePaul Pray for Us!

Kenneth Jennings  
Principal

Sister Jeanne Agans, SC  
Vice Principal for Academics

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## **INTRODUCTION**

<u>REQUIREMENTS FOR GRADUATION*</u>	<u>Credits</u>
Theology .....	20
English .....	20
Mathematics .....	20
Science .....	15
Social Studies .....	15
Physical Education, Health, Driver Education .....	15
World Language .....	10
Visual and Performing Arts .....	10
Technology and Career Education (Infused)	

\*When electives are added, typical students have in excess of 140 credits.

## COURSE LEVELS

The curriculum offerings provide for differentiated course levels. The number of levels in a department is flexible according to the needs of the students. Students are assigned to classes based on their scholastic history, teacher recommendations, past grade achievements, and test data. Periodic reviews of a student's course level assignment are conducted. If it appears justified that a student is misplaced in a course level, an opportunity will be provided for movement to a more suitable group where possible.

### Advanced Placement (AP)

These courses are derived from the approved AP curriculum. The particularly stylized design, depth of material, and required readings stipulated by the College Board's Advanced Placement organization determine these courses to be at a level above the honors level. At the completion of these courses, all students take the appropriate College Board Advanced Placement Examinations.

### Honors (H)

These courses are designed for the superior student who displays initiative, creativity, industry, and high aptitude. A student selected for these courses has a past history of grades that justifies inclusion in the honors strata of curricula. The Honors courses require greater depth of material comprehension, extensive work and assignments, and considerable independent work.

### College Prep (CP)

These courses are broad-based, in-depth courses designed for the student who wants to learn the content area of a subject. Students in college preparatory courses have the requisite ability to succeed at a high level of academic achievement.



## GRADE CALCULATIONS AND GPA ADDED VALUES

For purposes of computing grade point averages, courses will be weighted in direct proportion to their assigned number of credits. All credit courses will be included in the computation.

Grades earned in Honors or AP courses are awarded GPA added values. Grades earned in Honors Courses are awarded an additional 0.33. Grades earned in Advanced Placement courses are awarded an additional 0.67. Perhaps an example will prove helpful. In the default grade system these are the GPA values for each grade:

A+ 4.33	A 4.00	A- 3.67	B+ 3.33	B 3.00	B- 2.67
C+ 2.33	C 2.00	C- 1.67	D+ 1.33	D 1.00	F 0.00

In a College Prep course, a B is awarded 3.00 GPA points. In an Honors level course, a B is awarded 3.33 GPA points due to the 0.33 added value. Similarly, in an Advanced Placement course, a B would be awarded 3.67 GPA points due to the 0.67 added value. No added value points are awarded for an F in either an Honors or Advanced Placement course.

Semester and cumulative averages appear on each student's semester report card.

# THEOLOGY DEPARTMENT

The United States Catholic Conference of Bishops (USCCB) has instituted an integral, consistent and rigorous Theology curriculum which will help students to come to know Jesus Christ and live the Gospel Message and values as they assume an active role in today's Church and in the world. What is distinctive about the framework is its Christological emphasis and its thorough incorporation of the understanding of Divine Revelation presented in Del Verbum. The spiritual, intellectual, developmental, and cultural aspects of adolescence are addressed in the curriculum.

## Honors Admissions Criteria 2016-2017

### **THEOLOGY 9, HONORS**

1. COOP minimum score in the 90th National Percentile in Language and Reading
2. COOP Composite Scoring Index (CSI) of 120

### **THEOLOGY 10, HONORS**

1. PSAT ERW score of 550
2. A- average in Theology 9, Honors course;  
A in college prep Theology 9 class to advance
3. Recommendation of Theology teacher and Department Head

### **THEOLOGY 11, HONORS**

1. PSAT ERW score of 550
2. A- average in Theology 10, Honors course;  
A in college prep Theology 10 class to advance
3. Recommendation of Theology teacher and Department Head

### **THEOLOGY 12, HONORS**

1. PSAT ERW score of 550
2. A- average in Theology 11, Honors course;  
A in college prep Theology 11 class to advance
3. Recommendation of Theology teacher and Department Head

#### **Courses with 2 Criteria:**

Meet both criteria - Approved  
Meet 1 of 2 - Approval unlikely  
Meet 0 of 2 - Not Approved

#### **Courses with 3 Criteria:**

Meet all 3 criteria - Approved  
Meet 2 of 3 - Approval likely  
Meet 1 of 3 - Approval unlikely  
Meet 0 of 3 - Not Approved



# THEOLOGY COURSE DESCRIPTIONS

The "Teaching, Touching Safety Program" is included in all grade levels.

## **12151 (CP) THEOLOGY 9 - REVELATION** (2.5 Cr.)

**Gr. 9**

*The Revelation of Jesus Christ in Scripture*

The purpose of this course is to give students a general knowledge and appreciation of the Sacred Scriptures. Through their study of the Bible they will come to encounter the living Word of God, Jesus Christ. In this course they will learn about the Bible, authored by God through Inspiration, and its value to people throughout the world. They will learn how to read the Bible and will become familiar with the major sections of the Bible and the books included in each section. The students will pay particular attention to the Gospels, where they may grow to know and love Jesus Christ more personally. (Doctrinal Elements of a Curriculum Framework)

## **12251 (CP) THEOLOGY 9 - JESUS CHRIST** (2.5 Cr.)

**Gr. 9**

*Who is Jesus Christ?*

The purpose of this course is to introduce students to the mystery of Jesus Christ, the living Word of God, and the Second Person of the Blessed Trinity. In this course students will understand that Jesus Christ is the ultimate Revelation to us from God. In learning about who he is, the students will also learn who he calls them to be. (Doctrinal Elements of a Curriculum Framework)

## **12152 (H) THEOLOGY 9 – REVELATION, HONORS** (2.5 Cr.)

**Gr. 9**

*Prerequisites: COOP Minimum score of in the 90th National Percentile in Language and Reading; COOP CSI of 120*

*The Revelation of Jesus Christ in Scripture*

The purpose of this course is to give students a general knowledge and appreciation of the Sacred Scriptures. Through their study of the Bible they will come to encounter the living Word of God, Jesus Christ. In this course they will learn about the Bible, authored by God through Inspiration, and its value to people throughout the world. They will learn how to read the Bible and will become familiar with the major sections of the Bible and the books included in each section. The students will pay particular attention to the Gospels, where they may grow to know and love Jesus Christ more personally. (Doctrinal Elements of a Curriculum Framework)

As an honors-level course, students are provided with the opportunity to integrate Scripture with selections from contemporary literature and Church documents.

## **12252 (H) THEOLOGY 9 - JESUS CHRIST, HONORS** (2.5 Cr.)

**Gr. 9**

*Prerequisites: COOP Minimum score of in the 90th National Percentile in Language and Reading; COOP CSI of 120*

*Who is Jesus Christ?*

The purpose of this course is to introduce students to the mystery of Jesus Christ, the living Word of God, and the Second Person of the Blessed Trinity. In this course students will understand that Jesus Christ is the ultimate Revelation to us from God. In learning about who he is, the students will also learn who he calls them to be. (Doctrinal Elements of a Curriculum Framework)

As an honors-level course, students are provided with the opportunity to integrate Scripture with selections from contemporary literature and Church documents.

## **13151 (CP) THEOLOGY 10 - MISSION** (2.5 Cr.)

**Gr. 10**

*The Mission of Jesus Christ (The Paschal Mystery)*

The purpose of this course is to help students understand all that God has done for us through his Son, Jesus Christ. Through this course of study, students will learn that from the first moment of creation, God has planned for us to share in Divine life as children of God the Father, sisters and brothers of the Son, united in the Holy Spirit. This is accomplished through the Redemption Christ has won for us. Students will learn how we share in this redemption through Christ and will also be introduced to what it means to be a disciple of Jesus Christ, responding to his call in our lives. (Doctrinal Elements of a Curriculum Framework)

**13251 (CP) THEOLOGY 10 – MISSION CONTINUES** (2.5 Cr.)**Gr. 10***Jesus Christ's Mission Continues in the Church*

The purpose of this course is to help the students understand that in and through the Church they encounter the living Jesus Christ. They will be introduced to the fact that the Church was founded by Christ through the Apostles and is sustained by Him through the Holy Spirit. The students will come to know that the Church is the living Body of Christ today. This Body has both divine and human elements. In this course, students will learn not so much about the events in the life of the Church, but about the sacred nature of the Church. (Doctrinal Elements of a Curriculum Framework)

**13152 (H) THEOLOGY 10 – MISSION, HONORS** (2.5 Cr.)**Gr. 10**

*Prerequisites: PSAT ERW score of 550; A- average in Theology 9, Honors course; A in college prep Theology 9 class to advance; Recommendation of Theology teacher and Department Head*

*The Mission of Jesus Christ (The Paschal Mystery)*

The purpose of this course is to help students understand all that God has done for us through his Son, Jesus Christ. Through this course of study, students will learn that from the first moment of creation, God has planned for us to share in Divine life as children of God the Father, sisters and brothers of the Son, united in the Holy Spirit. This is accomplished through the Redemption Christ has won for us. Students will learn how we share in this redemption through Christ and will also be introduced to what it means to be a disciple of Jesus Christ, responding to his call in our lives. (Doctrinal Elements of a Curriculum Framework)

As an honors-level course, students are provided with the opportunity to integrate Scripture with selections from contemporary literature and Church documents.

**13252 (H) THEOLOGY 10 – MISSION CONTINUES, HONORS** (2.5 Cr.)**Gr. 10**

*Prerequisites: PSAT ERW score of 550; A- average in Theology 9, Honors course; A in college prep Theology 9 class to advance; Recommendation of Theology teacher and Department Head*

*Jesus Christ's Mission Continues in the Church*

The purpose of this course is to help the students understand that in and through the Church they encounter the living Jesus Christ. They will be introduced to the fact that the Church was founded by Christ through the Apostles and is sustained by Him through the Holy Spirit. The students will come to know that the Church is the living Body of Christ today. This Body has both divine and human elements. In this course, students will learn not so much about the events in the life of the Church, but about the sacred nature of the Church. (Doctrinal Elements of a Curriculum Framework)

As an honors-level course, students are provided with the opportunity to integrate Scripture with selections from contemporary literature and Church documents.

**14151 (CP) THEOLOGY 11 – SACRAMENTS** (2.5 Cr.)**Gr. 11***Sacraments as Privileged Encounters with Christ*

The purpose of this course is to help students understand that they can encounter Christ today in a full and real way in and through the sacraments, and especially through the Eucharist. Students will examine each of the sacraments in detail so as to learn how they may encounter Christ throughout life. (Doctrinal Elements of a Curriculum Framework)

**14251 (CP) THEOLOGY 11 – LIFE IN CHRIST** (2.5 Cr.)**Gr. 11***Life in Jesus Christ*

The purpose of this course is to help students understand that it is only through Christ that they can fully live out God's plans for their lives. Students are to learn the moral concepts and precepts that govern the lives of Christ's disciples. (Doctrinal Elements of a Curriculum Framework)

**14152 (H) THEOLOGY 11 – SACRAMENTS, HONORS (2.5 Cr.)** **Gr. 11**

*Prerequisites: PSAT ERW score of 550; A- average in Theology 10, Honors course; A in college prep Theology 10 class to advance; Recommendation of Theology teacher and Department Head*  
*Sacraments as Privileged Encounters with Christ*

The purpose of this course is to help students understand that they can encounter Christ today in a full and real way in and through the sacraments, and especially through the Eucharist. Students will examine each of the sacraments in detail so as to learn how they may encounter Christ throughout life. (Doctrinal Elements of a Curriculum Framework)

As an honors-level course, students are provided with the opportunity to integrate Scripture with selections from contemporary literature and Church documents.

**14252 (H) THEOLOGY 11 – LIFE IN CHRIST, HONORS (2.5 Cr.)** **Gr. 11**

*Prerequisites: PSAT ERW score of 550; A- average in Theology 10, Honors course; A in college prep Theology 10 class to advance; Recommendation of Theology teacher and Department Head*  
*Life in Jesus Christ*

The purpose of this course is to help students understand that it is only through Christ that they can fully live out God's plans for their lives. Students are to learn the moral concepts and precepts that govern the lives of Christ's disciples. (Doctrinal Elements of a Curriculum Framework)

As an honors-level course, students are provided with the opportunity to integrate Scripture with selections from contemporary literature and Church documents.

**17151 (CP) THEOLOGY 12 – DISCIPLESHIP (2.5 Cr.)** **Gr. 12**

*Living as a Disciple of Jesus Christ in Society*

The purpose of this course is to introduce students to the Church's social teaching. In this course, students are to learn how Christ's concern for others, especially the poor and needy, is present today in the Church's social teaching and mission. (Doctrinal Elements of a Curriculum Framework)

**17551 (CP) THEOLOGY 12 – ECUMENICAL ISSUES (2.5 Cr.)** **Gr. 12**

*Ecumenical and Interreligious Issues*

This course continues the foundation laid in the previous six courses, comparing the teaching of the Catholic Church to other traditions, both Christian and Non-Christian, with the goal of increasing human unity through fostering awareness of the great spiritual truths which are found in these other communities as well as understanding the ways in which we differ. [Nostra Aetate 1-2]

**17152/17252 (H) THEOLOGY 12 HONORS SEMINAR (5 Cr./ over two sem.)** **Gr. 12**

*Prerequisites: PSAT ERW score of 550; A- average in Theology 11, Honors course; A in college prep Theology 11 class to advance; Recommendation of Theology teacher and Department Head*  
*Living as a Disciple of Jesus Christ in Society*

The goal of this course is to provide a catholic or universal vision of unity, peace, and justice. Through the use of the written word, an understanding of spirituality, and involvement in social action, students will be challenged to explore their relationship with the global community. The course informs and challenges students to continue the work of peace and justice. Christian morality is presented as the student's personal response to societal values that may be contrary to Gospel values. The themes of Catholic Social Teaching are emphasized and Christian values are applied. The students will be able to conform their lives with Jesus Christ as the focus of Christian living.

As an honors-level course, students are provided with the opportunity to integrate Scripture with selections from contemporary literature and Church documents.

**11151 (CP) PEER MINISTRY 12 (2.5 Cr.)** **Gr. 12**

The students accepted into this course assist in the Peer ministry class run for the freshmen during the first semester. There is an application process, and those chosen to be Peer Ministers will assist in small group discussions, plan activities and be role models and examples to the freshman class.

# COMPUTER-BASED ELECTIVES COURSE DESCRIPTIONS

The following courses are part of our on-going progress in technological development across the curriculum.

## COMPUTER-BASED ELECTIVES (Full-Year)

**71102 (H) ENGINEERING 1: APPLICATIONS, HONORS** (5 Cr.)      **Gr. 10, 11, 12**  
Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. Students spend the first three quarters of the year exploring structural, electrical, and computer engineering, emphasizing project research, concept development, and professional communication. The curriculum includes lectures on advanced topics in systems thinking, engineering concepts, and mechatronic design.

During the fourth quarter students apply the discipline-specific knowledge gained in the first three quarters. Each student is mentored by a science, math, technology, or engineering instructor who serves as a professional resource to guide the student through an applied engineering project designed to solve a real-world issue. *This course satisfies the third-year Science requirement.*

**71202 (H) ENGINEERING 2: MECHATRONICS, HONORS** (5 Cr.)      **Gr. 11, 12**  
*Prerequisite: Successful completion of Engineering I: Applications, Honors; Recommendation of Instructor*  
Mechatronics, as an engineering discipline, is the synergistic combination of mechanical engineering, electronics, control engineering, and computers – all integrated through the design process. Students are involved in the complex decision-making of the operation of physical systems. Mechatronic systems depend on computer software for their unique functionality and as such a heavy emphasis is placed on the programming of microprocessors and micro-controllers. Students in this course study mechatronics at both a theoretical and practical level, balancing theory/analysis and hardware implementation. As an applied science, emphasis is placed on physical understanding rather than on mathematical formalities. Students are expected to be familiar with standard computer operations (e.g., login, cut & paste, email attachments, etc.) before enrolling in the course. *This course satisfies the third-year Science requirement.*

**77002 (H) COMPUTER SCIENCE PRINCIPLES, HONORS** (5 Cr.)      **Gr. 10, 11, 12**  
Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to creative aspects of programming, using abstractions and algorithms, working with large data sets, understandings of the Internet and issues of cybersecurity, and impacts of computing that affect different populations. Computer Science Principles will give students the opportunity to use current technologies to solve problems and create meaningful computational artifacts. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science.

## COMPUTER-BASED ELECTIVES (Semester)

**77051 (CP) WEB DESIGN** (2.5 Cr.)      **Gr. 10, 11, 12**  
Web Design is an introduction to the design, creation, and maintenance of web pages and websites. Students learn how to critically evaluate website quality, learn how to create and maintain quality web pages, learn about web design standards and why they're important, and learn to create and manipulate images. The course progresses from introductory work on web design to a culminating project in which students design and develop websites for local community organizations. Students are expected to be familiar with standard computer operations (e.g., login, cut & paste, email attachments, etc.) before enrolling in the course.

**75851 (CP) JAVA PROGRAMMING** (2.5 Cr.)      **Gr. 10, 11, 12**  
In this course students are introduced to computer programming using the Java programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods,

including creating and manipulating objects, classes, using object-oriented tools, Java exception handling, file input/output, threads, collection classes, and networking. Students are expected to be familiar with standard computer operations (e.g., login, cut & paste, email attachments, etc.) before enrolling in the course.



**72051 (CP) RASPBERRY PI, INTRO TO** (2.5 Cr)

**Gr. 10, 11, 12**

The objective of this course is to take a whirlwind tour of the Raspberry Pi, a wonderful little computer that fits in the palm of your hand, yet packs enough power to run a home media center, a VPN, and a lot more. While some programming knowledge is helpful, none is required as this course is structured as project, through which students become familiar with the various components that make up the web development stack: the operating system, the hardware (including the GPIOs), the application server, web server, database server, and the Python programming language.

**75951 (CP) A+ CERTIFICATION PREP** (2.5 Cr)

**Gr. 11, 12**

*Prerequisite: Approval of Technology Coordinator*

(This course may be repeated up to three semesters, listed on transcripts as A+ Cert Prep 1, 2, and 3.)

CompTIA A+ certification confirms a technician's ability to perform tasks such as installation, configuration, diagnosing, preventive maintenance and basic networking. It is an international, vendor-neutral certification recognized by major hardware and software vendors, distributors and resellers. It requires two tests to be passed: the A+ Essentials exam and a choice of one of three elective exams.

The structure of these courses includes a combination of hands-on work in the IT Office and classroom hours of instruction. At the conclusion of Level 1 of this course, students will be prepared to take the A+ Essentials exam, for which there is a separate fee. The test is not administered by DePaul Catholic.

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## ENGLISH DEPARTMENT

### Honors and Advanced Placement Admissions Criteria 2016-2017

#### **ENGLISH 9, HONORS**

1. COOP minimum score in the 90th National Percentile in Language and Reading
2. COOP Composite Scoring Index (CSI) of 120

#### **ENGLISH 10, HONORS**

1. PSAT ERW score of 550
2. A- average in English 9, Honors course;  
A in college prep English 9 class to advance
3. Recommendation of English teacher and Department Head

#### **ENGLISH 11, HONORS**

1. PSAT ERW score of 550
2. A- average in English 10, Honors course;  
A in college prep English 10 class to advance
3. Recommendation of English teacher and Department Head

#### **ENGLISH 12, HONORS**

1. PSAT ERW score of 550
2. A- average in English 11, Honors course;  
A in college prep English 11 class to advance
3. Recommendation of English teacher and Department Head

## ADVANCED PLACEMENT ENGLISH LANGUAGE

1. PSAT ERW score of 550
2. A- average in English 10, Honors course;  
A in college prep English 10 class to advance
3. Recommendation of English teacher and Department Head
4. Consultation with present teacher, AP teacher, and approval of Department Head

## ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION

1. PSAT ERW score of 550
2. A- average in English 11, Honors course;  
A in college prep English 11 class to advance
3. Recommendation of English teacher and Department Head
4. Consultation with present teacher, AP teacher, and approval of Department Head

### **Courses with 2 Criteria:**

Meet both criteria - Approved  
Meet 1 of 2 – Approval unlikely  
Meet 0 – Not Approved

### **Courses with 3 Criteria:**

Meet all 3 criteria – Approved  
Meet 2 of 3 – Approval likely  
Meet 1 of 3 – Approval unlikely  
Meet 0 of 3 – Not Approved

### **Courses with 4 Criteria:**

Meet all 4 criteria – Approved  
Meet 3 of 4 – Approval likely  
Meet 2 of 4 – Approval unlikely  
Meet 0 or 1 – Not Approved

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## ENGLISH COURSE DESCRIPTIONS

### **20101 (CP) ENGLISH 9** (5 Cr.)

**Gr. 9**

*Introduction to Genres:* In this course, students study short stories, poems, plays and novels to continue the development of their skills in close reading and understanding of literature. Student discussion focuses on the traditions of various cultures and the basic literary elements of the different genres. Essays are primarily narrative with instruction and practice in development methods, selection and arrangement, unity, transition, points of view and use of sensory images. Students continue their vocabulary development and practice grammatical and usage conventions as appropriate to their composition development. They begin to develop four-year writing portfolios that provide opportunities for evaluation and self-assessment.

### **20102 (H) ENGLISH 9, HONORS** (5 Cr.)

**Gr. 9**

*Prerequisites:* COOP Minimum score of in the 90th National Percentile in Language and Reading;  
COOP CSI of 120

*Introduction to Genres:* In this course the students develop skills of literacy while encouraging independent and higher-level critical thinking. Through an integrated program of literature, grammar, vocabulary and writing, students gain the skills needed to become more discerning readers and writers. A genre-based study of literature, non-fiction and fiction, includes selections that challenge analytical abilities at a more advanced level. Writing instruction emphasizes writing as a process and guides students to construct clear and well-supported literary analysis while introducing other forms of discourse. A willingness to take academic risks and participation in class discussions is expected. Learning to become discriminating users of the internet for research and collaboration is also taught. Students begin to develop four-year writing portfolios that provide opportunities for evaluation and self-assessment.

**21101 (CP) ENGLISH 10** (5 Cr.)**Gr. 10**

*American Literature:* In this chronological survey course emphasizing knowledge of Western literary heritage, students read major writers of American literature from the Colonial period to the 21st century. In composition instruction, students practice both expository types and narrative skills, including aspects of voice, tone, dialogue, imagery, and characterization. Course objectives also include vocabulary development, grammar review and practice in specific SAT/ACT skills. The writing portfolio continues to develop and expand.

**21102 (H) ENGLISH 10, HONORS** (5 Cr.)**Gr. 10**

*Prerequisites:* PSAT ERW score of 550; A- average in English 9, Honors course; A in college prep English 9 class to advance; Recommendation of English teacher and Department Head

In this chronological survey students read major writers of American literature from the Colonial period to the 21st century. This course reinforces and expands the literary analysis and writing skills taught and practiced in the 9th grade honors level course. Literature, grammar, vocabulary, and writing assignments serve to advance comprehension, while strengthening the students' ability to formulate and express well-founded ideas. Both the pace of instruction and choice of literature reflect a higher level of expectation in terms of the students' ability to explicate the writer's purpose and use of rhetorical strategies. Students are expected to demonstrate a willingness to rely on independent analysis in class discussion and written work. The writing portfolio continues to develop and expand.

**22101 (CP) ENGLISH 11** (5 Cr.)**Gr. 11**

In this survey students read major British writers. Students engage in literature that encompasses the themes, diversity and complexity that characterize British thought and society. Practice in analytical and persuasive essays encourages clearer thinking and more effective writing. The study of vocabulary and grammar continues, supporting the students' preparation for the SAT/ACT and the college application process. The writing portfolio continues to develop and expand. The MLA research process is further practiced resulting in the completion of a well-documented research paper.

**22102 (H) ENGLISH 11, HONORS** (5 Cr.)**Gr. 11**

*Prerequisites:* PSAT ERW score of 550; A- average in English 10, Honors course; A in college prep English 10 class to advance; Recommendation of English teacher and Department Head

In this survey students read major British writers. Students engage in literature that encompasses the themes, diversity and complexity that characterize British thought and society. Select works in this honors course require a higher level of both critical reading skills and independent analysis from students. Practice in analytical and persuasive essays encourages an increasingly mature quality of writing that evidences original thought. The study of vocabulary and grammar continues, supporting the students' preparation for the SAT/ACT and the college application process. The writing portfolio continues to develop and expand. The MLA research process is further practiced resulting in the completion of a well-documented research paper.

**23101 (CP) ENGLISH 12** (5 Cr.)**Gr. 12**

This course returns to the earlier genre approach to studying short fiction, drama, poetry and novel with the continued development of student skills in reading imaginative literature. The reading selections extend from the classics of world literature to multi-cultural contemporary pieces. Students deepen their appreciation of literature and its role in explaining the universal condition and the perspectives of different cultures and societies, past and present. This course also includes vocabulary development, grammar review and practice in specific SAT/ACT skills as needed. The writing portfolio continues to develop and expand. The MLA research process is further practiced resulting in the completion of a well-documented research paper.

**23102 (H) ENGLISH 12, HONORS** (5 Cr.)**Gr. 12**

*Prerequisites:* PSAT ERW score of 550; A- average in English 11, Honors course; A in college prep English 11 class to advance; Recommendation of English teacher and Department Head

This course returns to the earlier genre approach to studying short fiction, drama, poetry and novel with the continued development of students' skills in reading imaginative literature. The reading selections

extend from the classics of world literature to multi-cultural contemporary pieces. Students deepen their appreciation of literature and its role in explaining the universal condition and the perspectives of different cultures and societies, past and present. Students in this course should have well-developed communication skills and the ability and confidence to interpret literature independently. Exposure to literary criticism is integrated into textual analysis. Assessment includes reaction/reflection papers, formal and personal essay and multi-media presentations. Students are also expected to be creative and critical thinkers in their oral and written work. This course also includes vocabulary development, grammar review and practice in specific SAT/ACT skills as needed. The writing portfolio continues to develop and expand. The MLA research process is further practiced resulting in the completion of a well-documented research paper.

### **25104 (AP) ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION (5 Cr.)**

**Gr. 11**

*Prerequisites: PSAT ERW score of 550; A- average in English 10, Honors course; A in college prep English 10 class to advance; Consultation with present English teacher, AP teacher, and approval of Department Head. A summer assignment is required.*

This course prepares students for the higher-level reading and writing skills used in college. The course places an emphasis on rhetoric and composition with particular attention to argumentative, narrative and expository works. This course promotes critical reading and writing with attention to the nuances of language, stylistic distinction, purpose and audience. Students learn to recognize specific devices such as narrative structure, selection of detail, and manipulation of language, tone, diction, allusion, imagery and syntax. This class nurtures students' growth as mature, critical, and creative thinkers. At the conclusion of the course all students will take the Advanced Placement Exam for which there is an additional fee.

### **25004 (AP) ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION (5 Cr.)**

**Gr. 12**

*Prerequisites: PSAT ERW score of 550; A- average in English 11, Honors course; A in college prep English 11 class to advance; Consultation with present English teacher, AP teacher, and approval of Department Head. A summer assignment is required.*

This course stresses representative classic literary works from different genres, including essay, poetry, drama and novel. Analysis of meaning, idea and style is stressed rather than historical background or factual material. Students develop their understanding of how writers use language to provide both meaning and pleasure to their readers. Students learn to analyze and interpret literature through various critical perspectives. Students practice careful observation of textual detail, establishing connections among their observations and drawing inferences from those connections. Writing instruction focuses on the critical analysis of literature, improving students' abilities to explain clearly and cogently their understanding and interpretation of the literary works they have read. The class is conducted in seminar style with emphasis on discussion and evaluation. At the conclusion of the course all students will take the Advanced Placement Exam for which there is an additional fee.

## **ENGLISH ELECTIVES (Full-Year)**

### **27101 (CP) JOURNALISM (5 Cr.)**

**Gr. 10, 11, 12**

This course explores the contemporary media and the ethical responsibility issues inherent in the press today as well as the historical importance of journalism in America. Students will learn investigative skills, responsible reporting, and journalistic techniques. Students will research topics and events, conduct interviews, write articles, and design their own publications. Students will be the staff of The Emerald, our school newspaper, and will publish four issues in print and online during the school year.

### **27201 (CP) AFRICAN-AMERICAN/HISPANIC LITERATURE (5 Cr.)**

**Gr. 11, 12**

This course introduces students to a wide array of literature written by African-American and Latino writers from slavery to the modern period. Students engage in a wide selection of genres – poetry, fiction, drama, autobiographical narratives, essays, and journals, as well as vernacular forms – blues, gospel,

folktales, sermons, testimonies, speeches, and film. Through literature students are invited to embrace the rich traditions, unique style, and distinctive voices that are an essential component of literary expression. An emphasis on rhetoric and composition with particular attention to argumentative, narrative, and expository works will be explored. Students will evaluate the connections between historical, political events, and concurrent literature by developing analytical and persuasive essays and multimedia presentations.

## **ENGLISH ELECTIVES (Semester)**

### **26051 (CP) PUBLIC SPEAKING (2.5 Cr.)**

**Gr. 11, 12**

What are effective communication skills? How do effective communication skills convey meaning? How does effective communication impact people's lives? Public Speaking will provide students with the basic skills needed in a variety of public and daily interactions within society. This course offers students practical skills to articulate their thoughts and organize their arguments of persuasion through the power of rhetoric, fluency, and organization. This class enables students to study the art of discourse through articulation, delivery, and written/verbal communication. This course will also provide opportunities to reduce the fear of public speaking and to gain self-confidence.

### **28051 (CP) CREATIVE WRITING 1 (2.5 Cr.)**

**Gr. 10, 11, 12**

Creative Writing provides students with opportunities to develop their literary talents. It emphasizes the development of skills in the creation and study of prose, drama, and poetry in an intensive workshop setting. Students are required to write in a variety of genres and to demonstrate a facility for giving and receiving constructive criticism. Students will demonstrate a better understanding of, and facility with, the revision and rERWriting process through mastery of editing skills. Students will contribute their writing to Impressions, our literary magazine, and will gain knowledge about publication.

### **28151 (CP) CREATIVE WRITING 2 (2.5 Cr.)**

**Gr. 10, 11, 12**

This semester course is designed for students who are serious about writing as a creative art form. During the semester, students produce original works of creative non-fiction, short story, novel, and drama. Students share their work with classmates and offer constructive criticism to each other in a workshop format. Because good writing starts with careful reading, the course also requires students to complete short reading assignments and analysis of style. Discussions ensue about the writer's voice and personality, illusions about writing, legend and myths and other areas where a creative writer might find inspiration. Students will learn how to be a creative fictional writer, how to write fictional dramas and adventures, the importance of writing what you know, how to deal with writer's block and the importance of writing for yourself first. Publication opportunities for student writers and careers in creative writing are also discussed. Students will contribute their writing to Impressions, our literary magazine.

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## **FINE AND PERFORMING ARTS DEPARTMENT**

### **Honors and Advanced Placement Admissions Criteria 2016-2017**

#### **ADVANCED PLACEMENT ART HISTORY**

1. PSAT ERW score of 550
2. Recommendation of the Department Head

#### **ADVANCED PLACEMENT STUDIO ART**

1. Students must have taken the prerequisite course Honors Portfolio, earning a grade of A- or higher. (AP Art History is strongly recommended.)
2. Portfolio presentation and review (minimum of six pieces in various media)
3. Recommendation of the Department Head

## **PORTFOLIO, HONORS**

Grade A- in Portfolio 1; Recommendation of present Art teacher and Department Head

## **PORTFOLIO 1**

Grade A- in Visual Arts 1; Recommendation of present Art teacher and Department Head

## **VISUAL ARTS 2**

Successful completion of Visual Arts 1.

## **MIXED MEDIA**

Successful completion of Visual Arts 2.

## **PHOTOSHOP ESSENTIALS**

By invitation of the Department Head only.

## **DE PAUL VOICES 1**

Students must audition to show the ability to sing on pitch and be willing to perform in front of an audience, both large and small; Recommendation of the Music teacher and Department Head

## **DE PAUL VOICES 2**

A grade of B+ in DePaul Voices 1; Recommendation of the Music teacher and Department Head

## **DE PAUL VOICES 3**

A grade of B+ in DePaul Voices 2; Recommendation of the Music teacher and Department Head

## **PIANO 2**

A grade of B+ in Piano 1; Recommendation of the Music teacher and Department Head

## **PIANO 3**

A grade of B+ Piano 2; Recommendation of the Music teacher and Department Head

## **PIANO 4**

A grade of B+ Piano 3; Recommendation of the Music teacher and Department Head

### **Courses with 3 Criteria:**

Meet all 3 criteria – Approved

Meet 2 of 3 – Approval likely

Meet 1 of 3 – Approval unlikely

Meet 0 of 3 – Not Approved

## **Program Sequences**

### **OPEN PROGRAM**

- Visual Arts 1 (Grade 10)
- Visual Arts 2 (Grades 11 or 12)
- Mixed Media (Grades 11 or 12)
- AP Art History (Departmental Approval)
- Photoshop Essentials (By Invitation Only)

- Piano 1 - 4 (Grades 10, 11 or 12)
- DePaul Voices 1-3 (Grades 10, 11 or 12)
- Music Theory (Grades 10, 11 or 12)
- Wind Ensemble (Grades 10, 11 or 12)

NOTES: Students in Grade 10 are NOT ELIGIBLE to take Visual Arts 2.  
Mixed Media is ONLY available to Grades 11 or later.

## **FINE ARTS TRACK**

- Portfolio 1 (full year) (Departmental Approval)
- Honors Portfolio (full year) (Departmental Approval)
  - Portfolio 1 and Honors Portfolio replace Visual Arts 1 and 2. Therefore students are NOT ELIGIBLE to take Visual Arts 1 or 2 once they are placed into Portfolio 1 or Honors Portfolio.
- AP Studio (full year) (Departmental Approval)
- AP Art History (Departmental Approval)
- Mixed Media (Grades 11 or 12)

## **MUSIC TRACK**

1. Piano 1 – 4 (Grades 10, 11 or 12)
2. DePaul Voices 1-3 (Grades 10, 11 or 12)
3. Music Theory (Grades 10, 11 or 12)
4. Wind Ensemble (Grades 10, 11 or 12)

# **FINE AND PERFORMING ARTS ELECTIVES COURSE DESCRIPTIONS (Full-Year)**

### **80001 (CP) PORTFOLIO 1** (5 Cr.)

**Gr. 10, 11, 12**

*Prerequisites: Grade of A- in Visual Arts I; Recommendation of present Art teacher and the Department Head.*

Designed for the aspiring artist, Portfolio 1 offers students the opportunity to master the techniques of various media while exploring realistic, stylized, abstract and nonrepresentational design. The program includes demonstrations and practice in portraiture, the human form, advanced topics in perspective, series creation, etc. Working from life and/or the imagination is stressed. Areas of study include: art history, aesthetics, how art affects our environment, art criticism, and evaluating works of art for effectiveness. **Portfolio 1 REPLACES Visual Arts 1 and 2 as student selections.**

### **80002 (H) PORTFOLIO, HONORS** (5 Cr.)

**Gr. 11, 12**

*Prerequisites: Grade of A- in Portfolio 1; Recommendation of present Art teacher and the Department Head*

Designed for artists who have already demonstrated proficiency in using the elements and principles of design effectively in the creation of art, this course provides students with the opportunity to explore advanced styles and techniques as they build a solid portfolio for presentation to prospective colleges. Honors Portfolio also provides a firm foundation for those intending to enroll in Advanced Placement Studio Art. One, two and three-dimensional work are included in a flexible curriculum that allows for personal artistic development. **Portfolio 1 REPLACES Visual Arts 1 and 2 as student selections.**

### **80504 (AP) ADVANCED PLACEMENT STUDIO ART** (5 Cr.)

**Gr. 11, 12**

*Prerequisites: Completion of Honors Portfolio with a grade of A- or better; Portfolio presentation and review (minimum of six pieces in various media) and recommendation of the Department Head.*

The Advanced Placement program in Studio Art (for which there is a separate fee) enables highly motivated students to do college level work in studio art while still in high school. Candidates must submit a portfolio of work for evaluation at the end of the school year. They may receive college credit for the course in addition to high school credit.

**88004 (AP) ADVANCED PLACEMENT ART HISTORY** (5 Cr.) **Gr. 10, 11, 12**

*Prerequisites: PSAT ERW score of 550; Recommendation of the Department Head*

The Advanced Placement Art History course is equivalent to a two-semester introductory college course that explores topics such as the nature of art, art making, and responses to art. By investigating artistic traditions from a global perspective, students become active participants in the global art world, engaging with its forms and content, as they experience, research, discuss, read, and write about art, artists, art making, and responses to and interpretations of art. (2014, The College Board)

**86101 (CP) DE PAUL VOICES 1 / DPV2- 86201 / DPV3- 86301** (5 Cr. Each) **Gr. 10, 11, 12**

*Prerequisites: Students must audition to show the ability to sing on pitch and be willing to perform in front of an audience, both large and small; Recommendation of the Music teacher and Department Head*

In this course, students study musical composition, scales, vocal control, voice parts, etc. Students have the opportunity to express their musical abilities through singing a variety of music, including classical, pop and gospel. Participation in a series of productions, concerts and celebrations of liturgy throughout the school year (and sometimes outside of school time) is a requirement of the course.

**(Semester)**

**80151 (CP) VISUAL ARTS 1** (2.5 Cr.) **Gr. 10, 11, 12**

Students explore the elements and principles of good design while learning basic skills in various media. Drawing, painting, and 3-dimensional work are the focus of the program. Basic perceptual and organizational skills are stressed, as students become attuned to their unique aesthetic awareness and creative self-expression.

**81151 (CP) VISUAL ARTS 2** (2.5 Cr.) **Gr. 11, 12**

*Prerequisite: Successful completion of Visual Arts 1*

Students continue to explore the elements and principles of good design as well as the media involved with drawing and painting such as, pen & ink, graphite, charcoal, pastels, acrylics, watercolors, etc. Areas of study include: composition, aesthetics and art criticism. **Visual Arts 2 MAY NOT be taken in the same year as Visual Arts 1.**

**80451 (CP) MIXED MEDIA** (2.5 Cr.) **Gr. 11, 12**

*Prerequisite: Successful completion of Visual Arts 2*

The Mixed Media course allows the student to create one, two and three- dimensional works of art while exploring the juxtaposition and interaction of various types of media, such as charcoal, acrylic paint, marker, etc. Techniques such as printmaking, positive and negative assembly, and found-object construction enhance the program. Areas of study include: exploration of historical works, effects of art on personal environments, and criticism/analysis.

**81451 (CP) PHOTOSHOP ESSENTIALS** (2.5 Cr.) **Gr. 12**

*Prerequisite: By invitation of the Department Head only.*

Designed to give students an understanding of how to apply Adobe Photoshop to perform various image-processing and enhancing techniques, Photoshop Essentials offers students the opportunity to produce various projects through which they will learn how to move, re-size and duplicate images. Additional skills include learning how to use layers, layer effects, filters, painting and blending, color modification, and creating images of different formats for different applications

**87151 (CP) PIANO 1** (2.5 Cr.) **Gr. 10, 11, 12**

Piano 1 is paced for the motivated student to learn to play with no prior keyboard skills. The course emphasizes reading and keyboard theory. Most students will be able to meet the class requirements with practice during the class hour, however, students are encouraged to practice additionally outside of class. More experienced students may supplement class assignments with additional repertoire. Students with advanced piano training should audition for Piano 2.

**87351 (CP) PIANO 2** (2.5 Cr.)**Gr. 10, 11, 12***Prerequisites: A grade of B+ in Piano 1; Recommendation of the Music teacher and Department Head*

A continuation of skills acquired in Piano 1 class, this course provides the opportunity for further mastery of the keyboard through increased technical ability. Students are expected to include practice time outside of the classroom as the course becomes more advanced.

**87551 (CP) PIANO 3** (2.5 Cr.)**Gr. 11, 12***Prerequisites: Grade of B+ in Piano 2; Recommendation of the Music teacher and Department Head*

A continuation and further development of skills acquired in Piano 2 class, this course provides the opportunity to pursue a mastery of the keyboard through increased technical aptitude, as well as assistance in establishing a fuller repertoire and stronger performance ability.

**87751 (CP) PIANO 4** (2.5 Cr.)**Gr. 11, 12***Prerequisites: Grade of B+ in Piano 3; Recommendation of the Music teacher and Department Head*

A continuation and further development of skills acquired in Piano 3 class, this course provides the opportunity to further independent study, as well as assistance in establishing a fuller repertoire and stronger performance ability.

**NEW!****82151 (CP) MUSIC THEORY** (2.5 Cr.)**Gr. 10, 11, 12**

In Music Theory 1 students will focus on learning to read and write music. Topics will include rhythm, notes in the staff, scales, chord identification, and listening skills. Grading will be based on tests and quizzes, but it will be focused on song writing projects. By the end of this course students will be able to write melody and harmony as well as identify intervals by listening. The cumulative project will be a written piece to be performed by a DPCHS student musician.

**NEW!****86351 (CP) WIND ENSEMBLE 1** (2.5 Cr.)**Gr. 10, 11, 12**

*Requirements: Students own an instrument and have at least 2 years' experience playing; recommendation of the Music teacher and the Department Head.*

In Wind Ensemble 1 students will work together to play pieces in the wind band repertoire that fit their skill level. Students will read music for their instrument and follow the conductor's tempo. The majority of classes will be spent practicing as an ensemble to blend and hear how each part fits into the whole. Some classes will be spent in sectionals. During these periods students will work with their instrument families to match tempo, style, and tuning. Homework will not be assigned, but practice time at home is essential to succeeding in this class. Grades will be based on weekly sectional quizzes, participation, and attendance at the Holiday Concert. By the end of this course students will be able to read music for their instrument and perform at the Holiday Concert in December.

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## HEALTH EDUCATION

Health Education provides an opportunity to learn basic health information for utilization in effective healthful living.

**91141 (CP) HEALTH 1** (1 Cr.)**Gr. 9**

This course is designed to heighten students' awareness regarding such personal health issues as: physical fitness, sleep and fatigue, nutrition, care of skin, hair and nails, and healthy personality traits. Also, current information concerning use of tobacco, alcohol and illegal drugs, along with eating disorders, AIDS and reproductive systems is thoroughly discussed. Finally, career opportunities within the Health field, as well as bystander care guidelines, are shared with the students.

**93141 (CP) HEALTH 3: FIRST AID** (1 Cr.)**Gr. 11**

This course is designed to teach students First Aid, Personal Safety and AIDS Awareness, as presented by the American National Red Cross. Emergency procedures such as C.P.R., obstructed airways, artificial respiration, bandaging, and transport and carry are covered with the use of choking and CPR mannequins.

A portion of the course is also devoted to career opportunities in sports medicine, athletic training, paramedic training, nursing, and other health-related fields.

**94141 (CP) HEALTH 4: FAMILY LIVING** (1 Cr.)

**Gr. 12**

The Health 4: Family Living course provides students with the information and skills they need to function well within their current family structure, while preparing them to develop their own strong families in the future. This course emphasizes building interpersonal relationships through a range of topics -- families and society, balancing work and family life, conflict resolution, financial problems, death, family violence, substance abuse, building a strong marriage, and many more. Students look at key issues related to juggling home and career using critical thinking questions and real-life problems to solve while comparing their ideas with others their own age.

## **DRIVER EDUCATION**

**92141 (CP) DRIVER EDUCATION** (1 Cr.)

**Gr. 10**

The theory portion of Driver Education is compulsory for all sophomores. The course consists of more than 30 hours (the state required minimum) of lecture and audio-visual aids, dealing with the fundamentals of driving. There is also a thorough examination of the New Jersey Driver Manual, culminating with the administration of the New Jersey State written examination.

## **PHYSICAL EDUCATION**

**91001 (CP) PHYSICAL EDUCATION 1** (3 Cr.)

**Gr. 9**

**92001 (CP) PHYSICAL EDUCATION 2** (3 Cr.)

**Gr. 10**

**93001 (CP) PHYSICAL EDUCATION 3** (3 Cr.)

**Gr. 11**

**94001 (CP) PHYSICAL EDUCATION 4** (3 Cr.)

**Gr. 12**

Physical Education is required yearly of all high school students. The program is planned with the triple purpose of providing an opportunity for the development of a healthy well-adjusted person, an interest in physical activity, and a tolerance of others. A variety of activities is offered, designed to meet the needs and abilities of each grade level, and changing with each marking period and season.

Class activities include the following:

Touch football, Basketball, Physical Fitness Test, Speedball, Soccer, Volleyball, Softball, Weight Training, Gamma Ball, Box Ball, Team Handball, Recreational games, Ultimate Frisbee, Frisbee Golf, Aerobic Exercise, and Boccé Ball.

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## **MATHEMATICS DEPARTMENT**

### **Honors and Advanced Placement Admissions Criteria 2016-2017**

#### **GEOMETRY, HONORS**

1. PSAT Math score of 550
2. A average in college prep Algebra to advance; A- average in Algebra 1, Honors to remain in Honors
3. Recommendation of Math teacher and Department Head

#### **ALGEBRA 2, HONORS** (Gr. 10)

1. PSAT Math score of 550
2. A average in college prep Algebra to advance; A- average in Algebra 1, Honors to remain in Honors
3. Recommendation of Math teacher and Department Head

## **ALGEBRA 2, HONORS** (Gr. 11)

1. PSAT Math score of 550
2. A- average in college prep Algebra and Geometry to advance; B+ average in Honors Algebra 1 and Geometry to remain in Honors
3. Recommendation of Math teacher and Department Head

## **PRECALCULUS, HONORS**

1. PSAT Math score of 550
2. B+ average in Algebra 2, Honors to remain in Honors
3. Recommendation of Math teacher and Department Head

## **CALCULUS, HONORS**

1. PSAT Math score of 550
2. Successful completion of Precalculus; Lower than B+ average in Precalculus, Honors
3. Recommendation of Math teacher and Department Head

## **ADVANCED PLACEMENT CALCULUS**

1. PSAT Math score of 550
2. B+ average in Precalculus, Honors
3. Physics (Pre- or Co-requisite)
4. Recommendation of Math teacher and Department Head

## **ADVANCED PLACEMENT STATISTICS**

1. PSAT Math score of 550
2. B average in Algebra 2 or Algebra 2, Honors
3. Concurrently in a Pre- or Calculus course
4. Recommendation of Math teacher and Department Head

### **Courses with 3 Criteria:**

Meet all 3 criteria – Approved  
Meet 2 of 3 – Approval likely  
Meet 1 of 3 – Approval unlikely

### **Courses with 4 Criteria:**

Meet all 4 criteria – Approved  
Meet 3 of 4 – Approval likely  
Meet 2 of 4 – Approval unlikely  
Meet 0 or 1 – Not Approved

## **MATHEMATICS COURSE DESCRIPTIONS**

Department approval (prior teachers, present teacher and Department Head) is required for all Mathematics courses. Please note criteria listed for each course.

### **40001 (CP) ALGEBRA 1** (5 Cr.)

**Gr. 9**

*Freshmen will be enrolled into a mathematics course based on the placement tests.*

This course is a modern treatment of elementary algebra, with a balance of concentration on concepts and on skills. Fitting within the logical structure of algebra, there is a progression from the natural numbers to a basic understanding of the real number system. The course includes a development of relations, functions, mathematical sentences and their graphs, from simple linear equations and functions, to systems of linear equations, quadratic equations and functions. Emphasis is placed on critical thinking and problem solving skills, as well as on real-life applications.

**40100 (CP) ALGEBRA 1, FOUNDATIONS OF** (5 Cr.) **Gr. 9**

*Freshmen will be enrolled into a mathematics course based on the placement tests.*

This course is especially designed and structured for the student who will benefit from reinforcement, practice and drill. The student's fundamental mathematical skills are sharpened while the student is introduced to elementary Algebraic topics. The course includes a development of relations, functions, mathematical sentences and their graphs from simple linear equations to quadratic functions.

**40002 (H) ALGEBRA 1, HONORS** (5 Cr.) **Gr. 9**

*Freshmen will be enrolled into a mathematics course based on the placement tests.*

This course is designed for freshmen in the Honors program. It will cover the main topics in the college prep Algebra 1 course and, in addition, an in-depth study of other topics of Algebra 1 with emphasis on more advanced and original problem solving techniques and applications. Selected advanced topics are covered according to group background.

**42001 (CP) GEOMETRY** (5 Cr.) **Gr. 10**

*Prerequisite: Successful completion of Algebra 1 with a grade of C or higher.*

This course introduces the students to techniques of logical reasoning while at the same time strengthening their basic algebraic skills. The students develop the ability to interpret and intuitively approach such areas as coordinate geometry, solid geometry, and practical applications of geometric principles.

**42000 (CP) GEOMETRY, FOUNDATIONS OF** (5 Cr.) **Gr. 10**

*Prerequisite: Completion of Algebra 1 with a grade lower than a C.*

This course is designed for students who need reinforcement in mathematical concepts. The topics covered are the same as those in Geometry. The course is structured so that student proof-writing is approached in an informal manner. Student eligibility is determined by the Mathematics Department.

**42002 (H) GEOMETRY, HONORS** (5 Cr.) **Gr. 9, 10**

*Prerequisites: PSAT Math score of 550; A- average in Algebra 1, Honors course or A in college prep Algebra 1 class to advance; Recommendation of present mathematics teacher Department. Freshman placed by testing process.*

This course includes an in-depth study of the topics of Euclidean geometry. The use of manipulative and geometric constructions allows for the discovery of postulates and theorems. Emphasis is placed on the development of inductive and deductive reasoning skills, problem solving, the connection between geometry and algebra, and practical applications.

**43001 (CP) ALGEBRA 2** (5 Cr.) **Gr. 11, 12**

*Prerequisites: Successful completion of Algebra 1 and Geometry with grades of C or higher in both.*

This course is a second course in Algebra. Following a brief review of the topics of Algebra 1, the course includes the study of the following topics: complex numbers, quadratic equations, systems of equations, variation, compound inequalities, functions, radicals and problem solving. In senior year, Algebra 2 may be followed by Precalculus or Trigonometry.

**43000 (CP) ALGEBRA 2, FOUNDATIONS OF** (5 Cr.) **Gr. 11, 12**

*Prerequisites: Completion of Algebra 1, Foundations and Geometry, Foundations or completion of Algebra 1 and Geometry with grades lower than a C.*

This course is designed to follow Foundations of Geometry. The topics covered are the same as those taught in Algebra 2. However, this course is especially designed and structured for those students who need reinforcement, practice and drill in the fundamental concepts of algebra.

**43002 (H) ALGEBRA 2, HONORS** (5 Cr.) **Gr. 10, 11**

*Prerequisites: PSAT Math score of 550; Sophomores – A- in Algebra 1, Honors or an A in college prep Algebra 1. Juniors – B+ in Algebra 1, Honors and Geometry or A- in college prep Algebra 1 and Geometry; Recommendation of present Mathematics teacher and Department Head.*

This course is designed to cover the main topics in the college prep Algebra 2 course and, in addition, higher-degree equations, plane trigonometric functions and trigonometric identities and formulae.

### **44001 (CP) PRECALCULUS** (5 Cr.)

**Gr. 11, 12**

*Prerequisites: B- in Algebra 2 or lower than a B in Algebra 2, Honors.*

This course is broad in scope, including the following topics: analytical geometry, trigonometry, conic sections, elementary polynomial functions, curve sketching, exponential and logarithmic functions, inequalities in one and two variables, and matrices. The graphing calculator is used in this course.

### **44002 (H) PRECALCULUS, HONORS** (5 Cr.)

**Gr. 11, 12**

*Prerequisites: PSAT Math score of 550; B+ in Algebra 2, Honors; Recommendation of present Mathematics teacher and Department Head.*

In Honors Precalculus the student is expected to gain deeper insight into the underlying structures of mathematics. The course is designed for mathematically oriented students who have demonstrated superior ability in Algebra 1, Geometry and Honors Algebra 2. Honors Precalculus is presented from the numeric, graphic and algebraic approach and incorporates the use of a graphing calculator. The following topics are included: statements and sets in mathematics, ordered fields, induction, sequences and series, algebra of functions, exponential and logarithmic functions, trigonometric functions and equations, algebra of vectors, plane analytic geometry of points and lines, analytic geometry and matrices, and an introduction to the derivative.

### **46100 (CP) SELECTED TOPICS OF SENIOR MATH** (5 Cr.)

**Gr. 12**

*Prerequisite: Successful completion of Algebra 2, Foundations.*

This course is designed for those seniors who have successfully completed Foundations of Geometry and Foundations of Algebra 2. The course includes a variety of selected mathematical topics designed to improve the students' mathematical ability and to strengthen the students' critical thinking skills. Selected algebra, probability, statistics, and personal finance topics are among those included.

### **47001 (CP) TRIGONOMETRY** (5 Cr.)

**Gr. 12**

*Prerequisite: Lower than a B- in Algebra 2 or an A or better in Algebra 2, Foundations.*

Topics in this course include plane trigonometric functions and trigonometric identities and formulas. Emphasis is placed on the reinforcement of Algebra skills and on integrating topics of Algebra and Trigonometry. The graphing calculator is used extensively in this course.

### **45002 (H) CALCULUS, HONORS** (5 Cr.)

**Gr. 11, 12**

*Prerequisites: PSAT Math score of 550; Successful completion of Precalculus or completion of Precalculus, Honors with a grade lower than a B+; Recommendation of Mathematics teacher and Department Head.*

This course is approved for those students who have achieved a B or C average in Precalculus, Honors or an A or B average in Precalculus. The topics include a review of elementary functions, analytical geometry, and trigonometry, together with the concept of limits, and curve sketching. The remainder of the course is devoted to development of the differential and integral calculus in an informal manner.

## **ADVANCED PLACEMENT CALCULUS**

Advanced Placement Calculus offerings are comprised of two courses: the AB Calculus and the BC Calculus. The AB Calculus course is a college-level course and will be approved only for students who have demonstrated superior ability in Honors Precalculus. The topics covered are those prescribed by the Advanced Placement Program of the College Board. A graphing calculator is used extensively to ensure a course that approaches topics numerically, graphically, and algebraically. The BC Calculus course is a continuation of the AB Calculus and is offered to those students who have successfully completed AB Calculus. This course is rigorous in nature and the topics covered are those prescribed by the Advanced Placement Program of the College Board. Students in either course must take the AP Calculus Exam and could earn up to eight college credits. There is an additional fee for each exam.

**45004 (A) ADVANCED PLACEMENT CALCULUS AB** (5 Cr.)**Gr. 11, 12**

*Prerequisites: PSAT Math score of 550; Pre-or Co-requisite: Physics; Completion of Precalculus, Honors with a grade of B+ or higher; Recommendation of mathematics teacher and Department Head. A summer assignment is required*

**45104 (A) ADVANCED PLACEMENT CALCULUS BC** (5 Cr.)**Gr.12**

*Prerequisites: PSAT Math score of 550; Successful completion of Advanced Placement Calculus AB. A summer assignment is required.*

## MATHEMATICS ELECTIVE (Full-Year)

**48004 (A) ADVANCED PLACEMENT STATISTICS** (5 Cr.)**Gr. 11, 12**

*Prerequisites: PSAT Math score of 550; Completion of Algebra 2, or Algebra 2, Honors with a grade of B or higher, competency in written communication, concurrently taking a Precalculus or Calculus course; Recommendation of mathematics teacher and Department Head. A summer assignment is required.*

This course is a college level course, in which the graphing calculator is used extensively. Students will be expected to analyze data using the exploratory and inferential techniques covered in the AP Statistics course description. Students in this course must take the AP Statistics exam for which there is an additional fee.

## MATHEMATICS ELECTIVES (Semester)

**40151 (CP) FINANCIAL LITERACY** (2.5 Cr.)**Gr. 10, 11, 12**

This course includes financial, economic, business and entrepreneurial literacy. Students learn how to make personal economic choices that are appropriate for someone of their financial standing. An understanding of the role of the economy in society is included as well as how to use entrepreneurial skills to improve productivity in the workplace and professional opportunities.

**48151 (CP) PROBABILITY AND STATISTICS** (2.5 Cr.)**Gr. 11, 12**

*Prerequisites: A B or better in college prep Algebra 2 or Algebra 2, Honors; Concurrently taking a Precalculus or Calculus course; Recommendation of mathematics teacher and Department Head.*

This semester elective course will involve creating hypotheses, making predictions, testing, and analyzing. Students will realize how their lives are full of probabilities and the relationship between statistical data and determining probable outcomes. A range of topics includes: independent events, dependent probability, hypothesis testing, descriptive statistics, random variables, probability distributions, regression, and inferential statistics.

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## SCIENCE DEPARTMENT

### Honors and Advanced Placement Admissions Criteria 2016-2017

**CHEMISTRY, HONORS**

1. Minimum final grade of A- in both college prep Algebra and Biology to advance or minimum final grade of B in Honors Algebra 1 and Honors Biology to remain in Honors.
2. Recommendation of Science teacher and Department Head.

## **PHYSICS, HONORS**

1. PSAT Math score of 550
2. Minimum final grade of B in Honors Algebra 2, Honors
3. Precalculus, Honors (Pre- or Co-requisite)
4. Recommendation of Science teacher and Department Head

## **HUMAN ANATOMY AND PHYSIOLOGY, HONORS**

1. Minimum final grade of B+ in college prep Biology to advance, or minimum final grade of B in Biology, Honors
2. Recommendation of Science teacher and Department Head

## **MICROBIOLOGY, HONORS** (Gr. 10)

1. Minimum final grade of B in Biology, Honors
2. Recommendation of Science teacher and Department Head

## **MICROBIOLOGY, HONORS** (Gr. 11, 12)

1. Minimum final grade of B in Biology
2. Recommendation of Science teacher and Department Head

## **HISTOLOGY, HONORS**

1. Minimum final grade of B in Biology
2. Recommendation of Science teacher and Department Head

## **CURRENT TOPICS IN BIOLOGICAL RESEARCH, HONORS**

1. Minimum final grade of B in Biology
2. Recommendation of Science teacher and Department Head

## **HONORS GENETICS** (Gr. 10)

1. Minimum final grade of B+ in Biology, Honors
2. Recommendation of Science teacher and Department Head

## **HONORS GENETICS** (Gr. 11, 12)

1. Minimum final grade of B+ in Biology
2. Recommendation of Science teacher and Department Head

## **ADVANCED PLACEMENT CHEMISTRY**

1. PSAT Math score of 550
2. Minimum final grade of B in Honors level courses in Biology, Chemistry, Algebra 2, and/or Precalculus; or minimum final grade of B+ in college prep Biology, Chemistry, and Algebra 2.
3. Recommendation of Science teacher and Department Head

## **ADVANCED PLACEMENT BIOLOGY**

1. PSAT Math score of 550
2. Minimum final grade of B in Honors level courses in Biology, Chemistry, Algebra 2, and/or Precalculus; or minimum final grade of B+ in college prep Biology, Chemistry, and Algebra 2.
3. Recommendation of Science teacher and Department Head

## ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE

1. PSAT Math score of 550
2. Minimum final grade of B in Honors level courses in Biology, Chemistry, Algebra 2, and/or Precalculus; or minimum final grade of B+ in college prep Biology, Chemistry, and Algebra 2.
3. Recommendation of Science teacher and Department Head

## AP PHYSICS 1 (Gr. 11, 12)

1. PSAT Math score of 550
2. Minimum final grade of B in all previous science courses.
3. Minimum final grade of B in Algebra 2 or currently enrolled in Algebra 2
4. Recommendation of Science teacher and Department Head

## AP PHYSICS 1 (Gr. 9)

1. Minimum final grade of A- in Honors Algebra 1 (8th grade)
2. Minimum final grade of A- in Honors level science (8th grade)
3. Recommendation of Science teacher and Department Head

### **Courses with 2 Criteria:**

Meet both criteria - Approved  
Meet 1 of 2 – Approval unlikely  
Meet 0 – Not Approved

### **Courses with 3 Criteria:**

Meet all 3 criteria – Approved  
Meet 2 of 3 – Approval likely  
Meet 1 of 3 – Approval unlikely  
Meet 0 of 3 – Not Approved

### **Courses with 4 Criteria:**

Meet all 4 criteria – Approved  
Meet 3 of 4 – Approval likely  
Meet 2 of 4 – Approval unlikely  
Meet 0 or 1 – Not Approved

## SCIENCE COURSE DESCRIPTIONS

Department approval (prior teachers, present teacher and Department Head) is required for all Science courses. Please note criteria listed for each course.

All 9th graders will be placed in the appropriate level of Biology or AP Physics 1.

### **50001 (CP) BIOLOGY (5 Cr.)**

**Gr. 9**

This course is a cellular approach to the study of life. The aim is to develop an understanding of the problems and generalizations of life science. The text used stresses an inquiry approach both in the classroom and in lab work. The subject matter includes a study of the nature of life, organism, continuity of life, physiology, evolution and ecology.

### **50000 (CP) BIOLOGY, FOUNDATIONS OF (5 Cr.)**

**Gr. 9**

This course presents a unique view of biological concepts in animal and plant studies, human physiology, disease and consumerism. Students are held responsible for the traditional concepts while being exposed to the ramification of biology in everyday life. The information is presented in a way that students can not only establish in their own minds a reason for knowing something, but can also translate experiences into relationships, applying these relationships to their lives in a concrete way.

### **50002 (H) BIOLOGY, HONORS (5 Cr.)**

**Gr. 9**

Students are introduced to the basic concepts of biology and will further examine this information as a study of the greater theme of life as it exists in nature. The biological processes of living things are studied in detail from basic cellular processes to the systems of multi-cellular organisms. The subject matter includes a study of the nature of life, organism, continuity of life, physiology, evolution, and anatomy. Laboratory exercises complement the current work being discussed in the classroom.

**51000 (CP) CHEMISTRY IN THE COMMUNITY** (5 Cr.) **Gr. 10**

*Prerequisites: Completion of Algebra 1 Foundations, Biology Foundations, or completion of Algebra 1, CP Biology with a grade lower than a C+ in both courses.*

This course provides a foundation for future scientific study. Concepts of Chemistry are explored with emphasis on the periodic table, laboratory experiments, demonstrations and mathematical solutions. This course will be followed by science electives in 11th and 12th grade.

**51001 (CP) CHEMISTRY** (5 Cr.) **Gr. 10**

*Prerequisites: Completion of Algebra 1 and Biology with a minimum final grade of B or completion of Algebra 1, Honors and Biology, Honors with a minimum final grade lower than a C+.*

Strong analytical and Algebraic skills are necessary to be successful in this level course. Students will leave this course with the ability to solve problems using factor-label (dimensional analysis) method, significant figures, and algebraic manipulation of symbolic equations. Topics of study include atomic structure and theory, chemical bonding, chemical reactions, gas laws, acids and bases, and stoichiometry. The course combines lecture, self-study, traditional laboratory exercises, and experimental design to enhance understanding of the big ideas in chemistry.

**51002 (H) CHEMISTRY, HONORS** (5 Cr.) **Gr. 10**

*Prerequisites: A- in both Algebra 1 and Biology or B in Algebra 1, Honors and Biology, Honors; Recommendation of Science teacher and Department Head.*

This chemistry course is designed for students who are considering a science career and who have shown superior aptitude and interest in science and mathematics. The emphasis is on quantitative, analytical, and problem solving skills. Topics include modern atomic theory, periodic properties and laws, bonding and molecular dynamics, stoichiometric relationships, gas laws, thermodynamics, acid-base reactions, kinetics, electrochemistry, nuclear chemistry, and equilibrium.

## **SCIENCE ELECTIVES (Full-Year)**

**51004 (AP) ADVANCED PLACEMENT CHEMISTRY** (5 Cr.) **Gr. 11, 12**

*Prerequisites: PSAT Math score of 550; B in Honors levels of Biology, Chemistry, Algebra 2 and/or Precalculus; Recommendation of Science teacher and Department Head. A summer assignment is required.*

Advanced Placement Chemistry is a high-mathematical, introductory college level course that builds upon the knowledge base gained in a first year chemistry course. This course emphasizes inquiry and reasoning skills as methods to develop enduring understandings. The areas of study include, but are not limited to: the structure of matter, the properties of matter, chemical reactions, rates of chemical reactions, thermodynamics and equilibrium. Students will be required to do independent research and reading, write formal lab reports, and think analytically about problems they may never have encountered before. Students will be engaged in hands-on laboratory work, integrated throughout the course, which accounts for a minimum of 25 % of the course time. Students in this course must take the AP Chemistry examination in May for which there is an additional fee.

**54004 (AP) ADVANCED PLACEMENT BIOLOGY** (5 Cr.) **Gr. 11, 12**

*Prerequisites: PSAT Math score of 550; B in Honors levels of Biology, Chemistry, Algebra 2, and/or Precalculus or minimum final grade of B+ in college prep Biology, Chemistry, and Algebra 2; Recommendation of Science teacher and Department Head. A summer assignment is required.*

This course is a lab-based course that is a rigorous survey of the major biological themes. Because of the ongoing information explosion in biology, the goals of this course cannot be based solely on the accumulation of facts and technical details. Rather, students are expected to develop a framework for modern biology in which they understand concepts and themes that integrate and unify the major topics, and science as a process of inquiry. The course emphasizes the development of thorough and accurate observation skills, and the careful consideration of facts to substantiate the thoughts and ideas. Heavy reading assignments reinforce material presented in class. Content areas that are stressed include:

biochemistry, organic chemistry, cell physiology, genetics, microbiology, ecology and evolution. There is a heavy emphasis on laboratory work and the ability of the student to combine lecture information with readings for problem solving and further investigation. Students in this course must take the AP Biology examination in May for which there is an additional fee.

### **55004 (AP) ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE** (5 Cr.)

**Gr. 11, 12**

*Prerequisites: PSAT Math score of 550; B in Honors levels of Biology, Chemistry, Algebra 2 and/or Precalculus, or minimum final grade of B+ in college prep Biology, Chemistry, and Algebra 2; Recommendation of Science teacher and Department Head. A summer assignment is required.*

The goal of the AP Environmental Science course is to provide the students with scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. The AP Environmental Science course is demanding and designed to be the equivalent of a one semester, introductory college-level course in Environmental Science. Environmental Science is interdisciplinary; it embraces a wide variety of topics from different areas, which include concepts of geology, biology, chemistry and geography. Areas of study include the structure and function of aquatic ecosystems and biomes, system modeling of ecosystems, population dynamics, nutrient cycles, human population growth, global atmospheric interactions, energy production, pollution, biodiversity, and deforestation. Students perform a significant amount of fieldwork in the form of observation and data collection on local ecosystems. Students in this course must take the AP Environmental Science examination in May for which there is an additional fee.

### **52004 (AP) ADVANCED PLACEMENT PHYSICS 1** (5 Cr.)

**Gr. 9**

*Prerequisites: Minimum final grade of A- in Honors Algebra 1 (8th grade), minimum final grade of A- in Honors-level science (8th grade) and recommendation of Science teacher and Department Head. A summer assignment is required.*

The course is a rigorous math-based course. It is designed to be equivalent to the first semester of an introductory college level Algebra-based physics course. A high level of achievement in Algebra and Geometry is mandatory. Students choosing to take this class will find it challenging, with extended study time requirements outside of class. On average, the student is expected to spend one hour on homework problems each night, with additional time spent reviewing the chapter in the book and examining homework solutions from the previous night's work. Students are required to apply the principles learned in class to problem solving in homework, test, and laboratory settings. The major topics of study include: kinematics, Newtonian mechanics, energy, harmonic motion, waves, sound, electrostatics and simple electric circuits.

### **52004 (AP) ADVANCED PLACEMENT PHYSICS 1** (5 Cr.)

**Gr. 11, 12**

*Prerequisites: PSAT Math score of 550; B in all previous science courses, and in Algebra 2 or currently enrolled in Algebra 2; Recommendation of Science teacher and Department Head. A summer assignment is required.*

The course is a rigorous math-based course. It is designed to be equivalent to the first semester of an introductory college level Algebra-based physics course. A high level of achievement in Algebra and Geometry is mandatory. Students choosing to take this class will find it challenging, with extended study time requirements outside of class. On average, the student is expected to spend one hour on homework problems each night, with additional time spent reviewing the chapter in the book and examining homework solutions from the previous night's work. Students are required to apply the principles learned in class to problem solving in homework, test, and laboratory settings. The major topics of study include: kinematics, Newtonian mechanics, energy, harmonic motion, waves, sound, electrostatics and simple electric circuits.

**57101 (CP) EARTH & SPACE SCIENCE** (5 Cr.)**Gr. 11, 12**

*Prerequisites: Successful completion of any level Biology and Chemistry course and teacher recommendation.*

This capstone science course is designed to cover space, earth, ocean, and atmospheric sciences in a rigorous, quantitative fashion, and builds on previous courses in biology, chemistry, and physical science by repeating and reinforcing content knowledge and problem solving skills learned in those courses but used now in an earth science context. Earth and Space Science is a course focusing on the study of the Earth's lithosphere, atmosphere, hydrosphere, and its celestial environment. Students enrolled in this course analyze and describe Earth's interconnected systems and how they are changing due to natural processes and human influence. Topics covered include rocks, minerals, natural resource management, sculpturing of Earth's surface, plate tectonics, earthquakes, volcanoes, geologic history, the atmosphere, weather, climate, history of astronomy, the solar system, stars, and galaxies.

**52001 (CP) PHYSICS** (5 Cr.)**Gr. 11, 12**

*Pre- or Co-requisite: Precalculus and completion of Algebra 2 with a minimum final grade of B. A summer assignment is required.*

The course introduces students to the study of physics conceptually by studying physical phenomena, and by requiring them to describe those phenomena computationally and graphically, both in the classroom and the laboratory. The behavior of our physical universe is studied through the following topics: kinematics, dynamics, momentum, energy, thermodynamics, waves, light, optics, sound, electricity, and magnetism.

**52002 (H) PHYSICS, HONORS** (5 Cr.)**Gr. 11, 12**

*Pre- or Co-requisite: Honors Precalculus and completion of Algebra 2, Honors with a minimum final grade of B. Prerequisites: PSAT Math score of 550; Recommendation of Science teacher and Department Head. A summer assignment is required.*

The course introduces students to the study of physics conceptually by studying physical phenomena, and by requiring them to describe rigorously, those phenomena computationally and graphically, both in the classroom and the laboratory. The behavior of our physical universe is studied through the following topics: kinematics, dynamics, momentum, energy, thermodynamics, waves, light, optics, sound, electricity, and magnetism.

**56001 (CP) HUMAN ANATOMY AND PHYSIOLOGY** (5 Cr.)**Gr. 11, 12**

*Prerequisite: C in Biology, Honors or C+ in college prep Biology.*

The objective of this course is to present the student with the study of the anatomy and physiology of the life processes of the human body. The course focuses on anatomical terminology, anatomical identification, and physiological processes of human body systems. It will stress an inquiry approach both in class and lab work.

**56002 (H) HUMAN ANATOMY AND PHYSIOLOGY, HONORS** (5 Cr.)**Gr. 11, 12**

*Prerequisite: B in Biology, Honors or B+ in college prep Biology.*

The objective of this course is to present the student with an in-depth study of the anatomy and physiology of the life processes of the human body. It includes such topics as locomotion, regulation, circulation, and digestion. The major portion of the lab work involves dissecting a mink and a fetal pig. This course should be considered a must for any eligible student who is considering a career in the medical, health-related, or biological fields.

**53001 (CP) ENVIRONMENTAL SCIENCE** (5 Cr.)**Gr. 11, 12**

*Prerequisite: Successful completion of any level of Biology and Chemistry course.*

Every day our environment changes. What is our role in the change? What can we do to effect positive change? This course takes an interdisciplinary approach to introducing students to the science that runs our planet. Students will learn how to identify and analyze environmental problems, evaluate risks associated with these issues, and examine alternative solutions. Students complete field investigations about the ecosystem that is our school campus and how the school fits into the greater environment.

**56101 (CP) EXERCISE SCIENCE/INTRO TO SPORTS MEDICINE** (5 Cr.) **Gr. 12**

*Prerequisite: B in any level of Anatomy and Physiology. Recommendation of both Physical Education and Science Department Heads. This course has an outside of school-hours practicum to be completed with a member of the Athletic Training staff as a required component of the course.*

Students taking this course will examine the relationship between exercise and human performance and the role of physical activity in the promotion of healthy lifestyles. Exercise science consists of several overlapping disciplines, including biomechanics, exercise physiology and biochemistry, growth and development, exercise nutrition, measurement and evaluation, and exercise psychology. The program of study is designed to provide an effective blend of classroom instruction and practical experience. Additional focus will be on prevention, immediate care, clinical evaluation, diagnosis, treatment, and rehabilitation of athletic injuries. Students will also learn about the professional responsibility of athletic trainers as well as the organization and administration required within the profession.

**SCIENCE ELECTIVES**  
**(Semester)**

**51115 (CP) FORENSICS** (2.5 Cr.)

**Gr. 11, 12**

*Prerequisites: Successful completion of any level Biology and Chemistry course; Recommendation of Science teacher.*

This course is an introduction to the study of Forensic Science, and includes the following topics: History of Forensic Science, the crime scene, physical and biological evidence collection and analysis, microscopic investigations, hair and fiber analysis, determination of the time of death, and insect study. DNA evidence is also covered along with computer, document, and voice recognition as evidence. Disclaimer: Some of the course content may be unpleasant.

**55051 (CP) GENETICS** (2.5 Cr.)

**Gr. 11, 12**

*Prerequisites: C+ in Biology and Science teacher recommendation.*

This course introduces students to the study and concepts of genetics and molecular biology. Topics include mitosis and meiosis, Mendelian genetics, chromosome mapping, DNA structure and replication, gene expression and regulation, genetic mutations and genetic disorders.

**55052 (H) GENETICS, HONORS** (2.5 Cr.)

**Gr. 10, 11, 12**

*Prerequisites (Gr. 11, 12): B+ in Biology; Recommendation of Science teacher and Department Head.*

*Prerequisites (Gr. 10): B+ in Biology, Honors; Recommendation of Science teacher and Department Head.*

This honors level course includes the same topics as the CP level course but with a more thorough and complex approach, building upon knowledge attained in the honors level Biology course.

**57052 (H) MICROBIOLOGY, HONORS** (2.5 Cr.)

**Gr. 10, 11, 12**

*Prerequisites (11th/12th Grade): Completion of Biology with a minimum final grade of B. Science teacher and Department Head recommendations. Prerequisites (10th Grade): Completion of Biology, Honors with a minimum final grade of B.*

This course introduces students to the study of microorganisms and the techniques of microbiology. This course examines the history of microbiology, the structure of bacterial cells, the nature of bacterial cultures, and the conditions necessary for the growth of bacteria and the study of diseases caused by microorganisms.



# **SOCIAL STUDIES DEPARTMENT**

## **Honors and Advanced Placement Admissions Criteria 2016-2017**

### **UNITED STATES HISTORY 1, HONORS**

1. PSAT ERW score of 550
2. A- in Honors Modern World Studies, Honors and English 9, Honors; A in Modern World Studies and English 9
3. Recommendation of Social Studies teacher and Department Head

### **UNITED STATES HISTORY 2, HONORS**

1. PSAT ERW score of 550
2. A- average in Honors English and Social Studies courses; A in college prep English and Social Studies class to advance
3. Recommendation of Social Studies teacher and Department Head

### **EUROPEAN HISTORY, HONORS**

1. PSAT ERW score of 550
2. A- average in Honors English and Social Studies courses; A in college prep English and Social Studies class to advance
3. Consultation with current Social Studies teacher and approval of Department Head

### **ADVANCED PLACEMENT UNITED STATES HISTORY**

1. PSAT ERW score of 550
2. A- average in Honors English and Social Studies courses; A in college prep English and Social Studies class to advance
3. Consultation with current Social Studies teacher and approval of Department Head

### **ADVANCED PLACEMENT EUROPEAN HISTORY**

1. PSAT ERW score of 550
2. A- average in Honors English and Social Studies courses; A in college prep English and Social Studies class to advance
3. Consultation with current Social Studies teacher and approval of Department Head

### **ADVANCED PLACEMENT UNITED STATES GOVERNMENT**

1. PSAT ERW score of 550
2. A- average in Honors English and Social Studies courses; A in college prep English and Social Studies class to advance
3. Consultation with current Social Studies teacher and approval of Department Head

### **ADVANCED PLACEMENT PSYCHOLOGY**

1. PSAT ERW score of 550
2. A- average in English and Social Studies courses;
3. Consultation with current Social Studies teacher and approval of Department Head

#### **Courses with 3 Criteria:**

Meet all 3 criteria – Approved  
Meet 2 of 3 – Approval likely  
Meet 1 of 3 – Approval unlikely

#### **Courses with 4 Criteria:**

Meet all 4 criteria – Approved  
Meet 3 of 4 – Approval likely  
Meet 2 of 4 – Approval unlikely  
Meet 0 or 1 – Not Approved

# SOCIAL STUDIES COURSE DESCRIPTIONS

## **60001 (CP) MODERN WORLD STUDIES** (5 Cr.)

**Gr. 9**

This full year program introduces students to the modern world through a comprehensive look at the religious, political, historical, and geographic issues which challenge our world today. Through examination of the significant characteristics of past societies and historical movements, students develop an appreciation for the impact of ideologies, conflict, and globalization on the contemporary world. In addition to exploring the nature of world societies, this curriculum is designed to develop and strengthen critical reading, writing, research and thinking skills. A major research project is part of the course requirements.

## **60002 (H) MODERN WORLD STUDIES, HONORS** (5 Cr.)

**Gr. 9**

*Prerequisites: COOP Minimum score of in the 90th National Percentile in Language and Reading; COOP CSI of 120*

This full year program introduces students to the modern world through a comprehensive look at the religious, political, historical, and geographic issues which challenge our world today. Through examination of the significant characteristics of past societies and historical movements, students develop an appreciation for the impact of ideologies, conflict, and globalization on the contemporary world. In addition to exploring the nature of world societies, this curriculum is designed to develop and strengthen critical reading, writing, research and thinking skills. Students strengthen analytical and critical thinking skills, while gathering information from primary sources, the Internet and textbook. A major research project is part of the course requirements.

## **61001 (CP) UNITED STATES HISTORY 1** (5 Cr.)

**Gr. 10**

This is the first of a two-year thematic exploration of the history of the United States beginning with the era of exploration and colonial America and continuing through the emergence of the United States as an expanding industrial and world power. This course reinforces critical reading, writing, research and thinking skills developed in grade 9. A major research project is part of the course requirements.

## **61002 (H) UNITED STATES HISTORY 1, HONORS** (5 Cr.)

**Gr. 10**

*Prerequisite: PSAT ERW score of 550; A average in college prep English 9 and college prep Modern World Studies; A- average in Modern World Studies, Honors and English 9, Honors; Recommendation of Social Studies teacher and Department Head*

This is the first of a two-year thematic exploration of the history of the United States beginning with the era of exploration and colonial America and continuing through the emergence of the United States as an expanding industrial and world power. This course reinforces critical reading, writing, research and thinking skills developed in grade 9. This course offers the serious, diligent student the opportunity to pursue an intensive and extensive study of American history. A major research project is part of the course requirements.

## **62001 (CP) UNITED STATES HISTORY 2** (5 Cr.)

**Gr. 11**

This is the second of a two-year thematic exploration of the history of the United States beginning with World War I and continuing to the dawn of the 21st century and contemporary history. This course reinforces critical reading, writing, research and thinking skills. A major research project is part of the course requirements.

## **62002 (H) UNITED STATES HISTORY 2, HONORS** (5 Cr.)

**Gr. 11**

*Prerequisite: PSAT ERW score of 550; A- average in all Honors English courses and Social Studies courses or A average in all college prep English and Social Studies courses; Recommendation of Social Studies teacher and Department Head*

This is the second of a two-year thematic exploration of the history of the United States beginning with World War I and continuing to the dawn of the 21st century and contemporary history. This course reinforces critical reading, writing, research and thinking skills. This course requires a strong commitment by the individual student to stay abreast of the scope and sequence of the course curriculum. A major research project is part of the course requirements.

**62004 (AP) ADVANCED PLACEMENT UNITED STATES HISTORY** (5 Cr.) **Gr. 11**  
*Prerequisite: PSAT ERW score of 550; A- average in all Honors English courses and Social Studies courses or A average in all college prep English and Social Studies courses; Consultation with present teacher and approval of Department Head*

This course prepares students to take the AP exam in U.S. History. It includes an in-depth analysis of foreign and domestic affairs from the Gilded Age to the present. It emphasizes critical reading and interpretation of historical documents, and understanding of alternative interpretations of historical topics by leading historians and of changing historical interpretations throughout history. This course requires well-developed writing skills as demonstrated with the composition of analytical essays, document-based essays, and short research assignments. At the conclusion of the course all students will take the Advanced Placement Exam for which there is an additional fee.

## **SOCIAL STUDIES ELECTIVES (Full-Year)**

**66002 (H) EUROPEAN HISTORY, HONORS** (5 Cr.) **Gr. 12**  
*Prerequisite: PSAT ERW score of 550; A- average in all Honors English courses and Social Studies courses or A average in all college prep English and Social Studies courses; Consultation with present teacher and approval of Department Head. A summer assignment is required.*

This study of European History since 1450 introduces students to the cultural, economic, political and social developments that played a fundamental role in shaping the world in which we live. Students develop a contextual comprehension of the contemporary institutions, the role of continuity and change in the present day society and politics, and the evolution of current forms of artistic expression and intellectual discourse. The student develops an understanding of the political themes in modern European history, and an ability to analyze historical evidence and historical interpretation through various writing assignments including document-based questions. A major research project is part of the course requirements.

**66004 (AP) ADVANCED PLACEMENT EUROPEAN HISTORY** (5 Cr.) **Gr. 12**  
*Prerequisite: PSAT ERW score of 550; A- average in all Honors English courses and Social Studies courses or A average in all college prep English and Social Studies courses; Consultation with present teacher and approval of Department Head. A summer assignment is required.*

This study of European History since 1450 introduces students to the cultural, economic, political and social developments that played a fundamental role in shaping the world in which we live. The students develop a contextual comprehension of the contemporary institutions, the role of continuity and change in the present day society and politics, and the evolution of current forms of artistic expression and intellectual discourse. The student develops an understanding of some of the political themes in modern European history, an ability to analyze historical evidence and historical interpretation, and an ability to express historical understanding in written format. At the conclusion of the course all students will take the Advanced Placement Exam for which there is an additional fee.

**69004 (AP) ADVANCED PLACEMENT US GOVERNMENT** (5 Cr.) **Gr. 11, 12**  
*Prerequisite: PSAT ERW score of 550; A- average in all Honors English courses and Social Studies courses or A average in all college prep English and Social Studies courses; Consultation with present teacher and approval of Department Head. A summer assignment is required.*

This course gives students an analytical perspective on government and politics in the United States. It includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. Students will be able to critically analyze relevant theories and concepts, apply them appropriately and develop their connections across the curriculum. Students will also be able to analyze and interpret basic data relevant to U.S. government and politics including data presented in charts, tables, and other formats. At the conclusion of the course all students will take the Advanced Placement Exam for which there is an additional fee.

## **SOCIAL STUDIES ELECTIVES** **(Semester)**

### **64051 (CP) ECONOMICS** (2.5 Cr.)

**Gr. 11, 12**

This course introduces students to the basic principles of the free enterprise system so they will be better able to function as consumers, workers, and citizens. Areas of study include: economic theory, economic systems, money and banking, business organization, monetary and fiscal policy, supply and demand, and the role of government. Students gain an understanding and appreciation of the importance of living in an economic system that protects individual freedoms.

### **65151 (CP) UNITED STATES CONSTITUTIONAL LAW** (2.5 Cr.)

**Gr. 11, 12**

This course will introduce students to the United States legal system with special emphasis on the Supreme Court and arrest, trial, and appeal procedures. The course will begin with a brief overview of the three branches of government and the American court system. The students will then study and analyze important Supreme Court cases. The students will also participate in a mock trial and/or Supreme Court review of a controversial Constitutional question.

### **67051 (CP) PSYCHOLOGY** (2.5 Cr.)

**Gr. 10, 11, 12**

This one semester course provides the opportunity to study individual and social psychology and how the knowledge and methods of psychologists are applied to the solutions of human problems. One of the goals is to broaden the students' range of understanding with respect to their own actions and the actions of others. The course develops critical thinking and writing skills through an emphasis on ethics in scientific research. A major research project is one of the requirements.

### **67151 (CP) SOCIOLOGY** (2.5 Cr.)

**Gr. 10, 11, 12**

Sociology is the study of society and human behavior. It focuses on the systematic study of social behavior, social institutions, and social change. Emphasis is placed on the interaction between individuals and culture. Areas of study include family, religion, community organizations, political and social groups and leisure time organizations. Moral values, traditions, folkways, the mobility of people and other factors in society that influence group behavior are also included. A major research project is one of the requirements.

### **68051 (CP) WORLD GENOCIDE** (2.5 Cr.)

**Gr. 11, 12**

In this course students will examine racism, anti-Semitism, and ethnic conflict. Emphasis will be given to the Armenian genocide, the Holocaust, and recent conflicts and genocides in Africa, Asia, the Middle East, and the Balkans. The class will also analyze the role individuals and the international community played in these conflicts.

### **64151 (CP) AFRICAN HISTORY** (2.5 Cr.)

**Gr. 11, 12**

This course will explore the history of Africa as the continent developed from the original peoples through the colonial period to independence. Students will examine the diverse native cultures, the effect colonialism had on these cultures, and the new cultures and conflicts that emerged as nations gained their independence. Students will also analyze the economic and political situations in key countries on the continent.

### **64251 (CP) ASIAN HISTORY** (2.5 Cr.)

**Gr. 11, 12**

This course will explore the history of Asia as the continent developed from the original peoples through the era of imperialism and colonialism to modern day. Students will examine the diverse Asian cultures, the effect imperialism had on these cultures, and the new cultures and conflicts that have emerged in present day Asia. Students will also analyze the economic and political situations in key countries on the continent.



# WORLD LANGUAGES DEPARTMENT

## Honors and Advanced Placement Admissions Criteria 2016-2017

### **FRENCH 3, HONORS**

1. PSAT ERW score of 550
2. Grade of A- or better for both French 1 and French 2
3. Recommendation of present World Language teacher and Department Head.

### **FRENCH 4, HONORS**

1. PSAT ERW score of 550
2. Grade of B+ for French 3, Honors
3. Recommendation of present World Language teacher and Department Head.

### **ITALIAN 3, HONORS**

1. PSAT ERW score of 550
2. Grade of A- or better for both Italian 1 and Italian 2
3. Recommendation of present World Language teacher and Department Head.

### **ITALIAN 4, HONORS**

1. PSAT ERW score of 550
2. Grade of B+ for Italian 3, Honors
3. Recommendation of present World Language teacher and Department Head.

### **ADVANCED PLACEMENT SPANISH LANGUAGE**

1. PSAT ERW score of 550
2. Grade of B+ for Spanish 3, Honors and/or Spanish 4, Honors
3. Recommendation of present World Language teacher and Department Head.

### **SPANISH 2, HONORS**

1. PSAT ERW score of 550
2. Grade of B+ for Spanish 1
3. Recommendation of present World Language teacher and Department Head.

### **SPANISH 3, HONORS**

1. PSAT ERW score of 550
2. Grade of B+ for Spanish 2, Honors
3. Recommendation of present World Language teacher and Department Head.

### **SPANISH 4, HONORS**

1. PSAT ERW score of 550
2. Grade of B+ for Spanish 3, Honors
3. Recommendation of present World Language teacher and Department Head.

#### **Courses with 3 Criteria:**

Meet all 3 criteria – Approved

Meet 2 of 3 – Approval likely

Meet 1 of 3 – Approval unlikely

Meet 0 of 3 – Not Approved

## WORLD LANGUAGES COURSE DESCRIPTIONS (FRENCH)

### **30101 (CP) FRENCH 1** (5 Cr.)

**Gr. 9**

This course is designed to develop the four language skills: listening, speaking, reading and writing. Basic realistic dialogues and playlets are used for introductions, classroom conversation and several vocabulary lists. Regular and irregular verbs are explored in present, imperfect, imperative and past tenses. In addition to the student workbook, supplementary materials such as CD's, DVD's and films are used.

### **30201 (CP) FRENCH 2** (5 Cr.)

**Gr. 9, 10**

*Prerequisite: Successful completion of French 1*

French 2 begins with an extensive review of the first year work. The regular and irregular verbs examined in French 1 are presented in future and conditional tenses. Further grammar lessons are explored and new vocabulary is added. Sentence and paragraph writing is stressed. It is expected that students will continue to use the foundations of the language to express themselves verbally in French on a daily basis.

### **30301(CP) FRENCH 3** (5 Cr.)

**Gr. 10, 11**

*Prerequisite: Successful completion of French 2*

Conducted mostly in French, this course continues to explore the language grammatically, as well as introducing new structures, such as present participle construction. Students have the opportunity to enjoy cultural readings, while writing and speaking in French brings all of the elements of the course together. French 3 completes the cycle for college prep students.

### **30302 (H) FRENCH 3, HONORS** (5 Cr.)

**Gr. 10, 11**

*Prerequisites: PSAT ERW score of 550; Grade of A- or better for both French 1 and French 2;*

*Recommendation of present World Language teacher and Department Head*

This course is conducted mostly in French. Grammar lessons continue, as new tenses—pluperfect and subjunctive mood—are added; vocabulary is increased. Students have the opportunity to compose and present their own conversations using specific terminology. Cultural readings, including a play and a novel, bring all of the elements of the course together.

### **30402 (H) FRENCH 4, HONORS** (5 Cr.)

**Gr. 11, 12**

*Prerequisites: PSAT ERW score of 550; Grade of B+ or better for Honors French; Recommendation of present World Language teacher and Department Head*

Honors French 4 is conducted primarily in French. All previous grammar is reviewed, including more challenging aspects of the rules. Future perfect, past conditional and the past subjunctive mood are added. Writing in the language is expanded into the three-paragraph composition; all vocabulary is used for original dialogues and playlets. French literary selections are read and discussed, such as *Le Petit Prince* by Saint Exupery.

## WORLD LANGUAGES COURSE DESCRIPTIONS (ITALIAN)

### **32101 (CP) ITALIAN 1** (5 Cr.)

**Gr. 9**

This first year course in Italian presents the student with the elements needed to develop the skills of listening, speaking, reading and writing in the target language. Grammar, thematic vocabulary and basic syntax are supported by written and oral drills. Appropriate grade level reading and writing assignments, cultural materials and situations for cooperative learning experiences are provided.

### **32201 (CP) ITALIAN 2** (5 Cr.)

**Gr. 9, 10**

*Prerequisite: Successful completion of Italian 1*

This second year program in Italian continues to build on the structures presented in Italian I. Emphasis is placed on the development of vocabulary, grammatical structures and syntax. Skills in oral

communication, writing, and reading for comprehension are stressed, with attention to the culture and history of Italy.

**32301 (CP) ITALIAN 3** (5 Cr.)

**Gr. 10, 11**

*Prerequisite: Successful completion of Italian 2*

This third year course provides students with development and reinforcement of the structures and syntax previously learned. Students acquire a larger vocabulary related to different situations, in order to stress the four communication skills of reading, writing, listening and speaking. Students also gain more knowledge about Italian history, culture and traditions. Italian 3 completes the cycle for college prep students.

**32303 (H) ITALIAN 3, HONORS** (5 Cr.)

**Gr. 10, 11**

*Prerequisites: PSAT ERW score of 550; Grade of A- or better for both Italian 1 and Italian 2; Recommendation of present World Language teacher and Department Head*

This third year course of study continues the development of grammar and syntax. Advanced vocabulary is presented and skills in writing and reading are reinforced. Students learn about Italian literary forms as well as the cultural contributions made by the Italian people.

**32403 (H) ITALIAN 4, HONORS** (5 Cr.)

**Gr. 11, 12**

*Prerequisites: PSAT ERW score of 550; Grade of B+ or better for both Italian 1 and Italian 2;*

*Recommendation of present World Language teacher and Department Head*

This course provides students with the opportunity to apply vocabulary, grammar and syntax previously acquired. The focus of study is the further development of the essential communication skills of speaking and listening. Use of the target language in creative writing projects is essential. Reading skills are enhanced by a variety of materials representative of both classic and contemporary Italian authors.

## **WORLD LANGUAGES COURSE DESCRIPTIONS (SPANISH)**

**31101 (CP) SPANISH 1** (5 Cr.)

**Gr. 9**

This first-year course in language endeavors to provide the student with the four essential skills needed for foreign language acquisition: to speak so as to be understood, to listen and be able to understand, to read with comprehension and to write with clarity. Current, relevant vocabulary is presented thematically and grammar structures and basic rules of usage and syntax are included. Textbooks, workbooks and student manuals provide reading selections and cultural materials for cooperative learning and formal grammar presentation.

**31201 (CP) SPANISH 2** (5 Cr.)

**Gr. 9, 10**

*Prerequisite: Successful completion of Spanish 1*

This course presents the more complex structures of the Spanish language and expands the cultural themes presented in the first level. By the end of the year, the student has acquired a command of the key vocabulary and structures necessary for personal communication, as well as an appreciation of the breadth and variety of the Spanish-speaking world. Readings appropriate for the students' skill level are used to reinforce the grammar and structure presented.

**31202 (H) SPANISH 2, HONORS** (5 Cr.)

**Gr. 10, 11**

*Prerequisites: PSAT ERW score of 550; Grade of A- or better for Spanish 1; Recommendation of present language teacher and Department Head.*

Created for advanced students, this course presents the more complex structures of the Spanish language and expands the cultural themes presented in the first level. By the end of the year, the student has completed an extensive study of grammar and vocabulary, with emphasis on speaking and reading skills. Various readings in the target language reinforce the grammar and structure presented.

**31301 (CP) SPANISH 3** (5 Cr.)**Gr. 10, 11***Prerequisite: Successful completion of Spanish 2*

This course allows the student to further his ability to hear and express him/herself in the language in a natural manner. Presentation of the vocabulary units enables the student to learn many synonyms, antonyms and idioms in conversational mode, which presents the language in a practical setting. Examples of a variety of literary forms are presented for study, including prose and poetry. Spanish 3 completes the cycle for college prep students.

**31302 (H) SPANISH 3, HONORS** (5 Cr.)**Gr. 10, 11***Prerequisites: PSAT ERW score of 550; Grade of A- or better for both Spanish 1 and Spanish 2;**Recommendation of present World Language teacher and Department Head.*

This course is designed for advanced students who may wish to continue study of the target language in college. It includes an extensive study of grammar, development of vocabulary, more sophisticated composition work and opportunity for oral expression. Students also read a variety of short stories by representative Hispanic authors.

**31401 (CP) SPANISH 4** (5 Cr.)**Gr. 11, 12***Prerequisite: Successful completion of Spanish 3*

This course allows the student to continue strengthening his ability to verbally express him/herself in the language with confidence. Presentation of the thematic vocabulary allows the student to practically convey conversational skills. Examples of a variety of literary forms are presented for study. By the end of the year the student will have mastered the present, present progressive, past tense, imperfect, simple commands, future, and conditional tenses. Spanish 4 completes the cycle for college prep students.

**31402 (H) SPANISH 4, HONORS** (5 Cr.)**Gr. 11, 12***Prerequisites: PSAT ERW score of 550; Grade of B+ or better for Honors Spanish 3; Recommendation of present World Language teacher and Department Head.*

This advanced level course provides the student with ample opportunity to finely hone the target communication skills acquired in the previous years of study. A general survey of literary works representative of a variety of centuries and genres and a cross section of Spanish and Hispanic authors is presented. During the year, the student concentrates upon an in-depth study of a major literary work by Cervantes or Zorrilla.

**31404 (A) ADVANCED PLACEMENT SPANISH LANGUAGE** (5 Cr.)**Gr. 11, 12***Prerequisites: PSAT ERW score of 550; B+ or better for Honors Spanish 3 and/or Honors Spanish 4;**Recommendation of present World Language teacher and Department Head. A **summer assignment is required.***

Through a variety of exercises and activities, students' skills in the target areas of grammar, vocabulary, composition, and oral communication are strengthened and refined. At the conclusion of the course all students will take the Advanced Placement Exam for which there is an additional fee.

**Course Availability by Discipline and Grade**

Department	Level	Grade 9	Term	Level	Grade 10	Term	Level	Grade 11	Term	Level	Grade 12	Term
Theology	CP/H	Theology 9 - Revelation	S	CP/H	Theology 10 - Mission	S	CP/H	Theology 11 - Sacraments	S	CP	Theology 12 - Discipleship	S
	CP/H	Theology 9 - Jesus Christ	S	CP/H	Theology 10 - Mission Cont'	S	CP/H	Theology 11 - Life in Christ	S	CP	Theology 12 - Ecumenical Issues	S
										H	Theology 12 - Honors Seminar	FY
English	CP/H	English 9	FY	CP/H	English 10	FY	CP/H	English 11	FY	CP/H	English 12	FY
	CP	Writing Workshop 9	Q	CP	Journalism	FY	AP	Language and Composition	FY	AP	Literature and Composition	FY
				CP	Creative Writing 1	S	CP	Journalism	FY	CP	Journalism	FY
				CP	Creative Writing 2	S	CP	African American/Hispanic Lit	FY	CP	African American/Hispanic Lit	FY
							CP	Public Speaking	S	CP	Public Speaking	S
							CP	Creative Writing 1	S	CP	Creative Writing 1	S
						CP	Creative Writing 2	S	CP	Creative Writing 2	S	
Mathematics	CP/H	Algebra 1	FY	CP/H	Geometry	FY	CP/H	Algebra 2	FY	CP/H	Precalculus	FY
	CP/H	Geometry	FY	CP/H	Algebra 2	FY	CP/H	Precalculus	FY	CP	Selected Topics of Senior Math	FY
	CP	Computational Skills 9	Q	CP	Financial Literacy	S	AP	Statistics	FY	CP	Trigonometry	FY
							CP	Financial Literacy	S	H	Calculus	FY
							CP	Probability and Statistics	S	AP	Calculus AB	FY
										AP	Calculus BC	FY
									AP	Statistics	FY	
									CP	Financial Literacy	S	
									CP	Probability and Statistics	S	
Science	CP/H	Biology	FY	CP	Chemistry in the Community	FY	AP	Chemistry	FY	AP	Chemistry	FY
	AP	Physics 1	FY	CP/H	Chemistry	FY	AP	Biology	FY	AP	Biology	FY
				H	Engineering 1: Applications	FY	AP	Environmental Science	FY	AP	Environmental Science	FY
				H	Microbiology	S	AP	Physics 1	FY	AP	Physics 1	FY
				H	Genetics	S	CP	Earth and Space Science	FY	CP	Earth and Space Science	FY
							CP/H	Physics	FY	CP/H	Physics	FY
							CP/H	Human Anatomy and Physiology	FY	CP/H	Human Anatomy and Physiology	FY
							CP	Environmental Science	FY	CP	Environmental Science	FY
							H	Engineering 1: Applications	FY	H	Engineering 1: Applications	FY
							H	Engineering 2: Mechatronics	FY	H	Engineering 2: Mechatronics	FY
							CP	Forensics	S	CP	Forensics	S
							H	Microbiology	S	H	Microbiology	S
							CP/H	Genetics	S	CP/H	Genetics	S
	Social Studies	CP/H	Modern World Studies	FY	CP/H	United States History 1	FY	CP/H	United States History 2	FY	H/AP	European History
				CP	Psychology	S	AP	United States History	FY	AP	United States Government	FY
				CP	Sociology	S	AP	United States Government	FY	CP	Economics	S
							CP	Economics	S	CP	United States Constitutional Law	S
							CP	United States Constitutional Law	S	CP	Psychology	S
							CP	Psychology	S	CP	Sociology	S
							CP	Sociology	S	CP	World Genocide	S
							CP	World Genocide	S	CP	African History	S
							CP	African History	S	CP	Asian History	S
							CP	Asian History	S			
World Languages	CP	French 1	FY	CP	French 2	FY	CP/H	French 3	FY	H	French 4	FY
	CP	French 2	FY	CP/H	French 3	FY	CP/H	French 4	FY	H	Italian 4	FY
	CP	Italian 1	FY	CP	Italian 2	FY	CP/H	Italian 3	FY	H	Spanish 4	FY
	CP	Italian 2	FY	CP/H	Italian 3	FY	CP/H	Italian 4	FY	AP	Spanish Language	FY
	CP	Spanish 1	FY	CP/H	Spanish 2	FY	CP/H	Spanish 3	FY			
	CP/H	Spanish 2	FY	CP/H	Spanish 3	FY	CP/H	Spanish 4	FY			
Computer-Based				H	Computer Science Principles	FY	H	Computer Science Principles	FY	H	Computer Science Principles	FY
				CP	Web Design	S	CP	Web Design	S	CP	Web Design	S
				CP	Java Programming	S	CP	Java Programming	S	CP	Java Programming	S
				CP	Intro to Rapsberry Pi	S	CP	Intro to Rapsberry Pi	S	CP	Intro to Rapsberry Pi	S
							CP	A+ Certification Prep 1	S	CP	A+ Certification Prep 1	S
							CP	A+ Certification Prep 2	S	CP	A+ Certification Prep 2	S
						CP	A+ Certification Prep 3	S	CP	A+ Certification Prep 3	S	
Fine and Performing Arts	CP	Art 9	Q	CP	Portfolio 1	FY	CP	Portfolio 1	FY	CP	Portfolio 1	FY
	CP	Music 9	Q	CP	DePaul Voices 1	FY	H	Portfolio	FY	H	Portfolio	FY
				AP	Art History	FY	AP	Art History	FY	AP	Art History	FY
				CP	Visual Arts 1	S	CP	DePaul Voices 1	FY	AP	Studio Art	FY
				CP	Piano 1	S	CP	DePaul Voices 2	FY	CP	DePaul Voices 1	FY
				CP	Piano 2	S	CP	Visual Arts 1	S	CP	DePaul Voices 2	FY
				CP	Wind Ensemble 1	S	CP	Visual Arts 2	S	CP	DePaul Voices 3	FY
				CP	Music Theory 1	S	CP	Mixed Media	S	CP	Visual Arts 1	S
							CP	Piano 1	S	CP	Visual Arts 2	S
							CP	Piano 2	S	CP	Mixed Media	S
							CP	Piano 3	S	CP	Photoshop Essentials	S
							CP	Piano 4	S	CP	Piano 1	S
							CP	Wind Ensemble 1	S	CP	Piano 2	S
							CP	Music Theory 1	S	CP	Piano 3	S
										CP	Piano 4	S
										CP	Wind Ensemble 1	S
									CP	Music Theory 1	S	
Health and Physical Education	CP	Health 1	Q	CP	Driver Education	Q	CP	Health 3	Q	CP	Health 4	Q
	CP	Physical Education 1	3Q	CP	Physical Education 2	3Q	CP	Physical Education 3	3Q	CP	Physical Education 4	3Q

Legend: CP College Prep Q Quarter  
H Honors S Semester  
AP Advanced Placement FY Full Year